

SECTION C

PERFORMANCE WORK STATEMENT

ENVIRONMENTAL REMEDIATION SERVICES FOR ENVIRONMENTAL COMPLIANCE FOR AREA IV and THE NORTHERN BUFFER ZONE OF THE SANTA SUSANA FIELD LABORATORY IN SUPPORT OF THE ENERGY TECHNOLOGY ENGINEERING CENTER (ETEC)

1. TASK ORDER OBJECTIVE

- 1.1. The objective of the PWS is to provide environmental remediation services, i.e. to complete the preparation of an Environmental Impact Statement (EIS) for Area IV and the NBZ of the SSFL pursuant to Council on Environmental Quality regulations (40 CFR Part 1500-1509) and DOE National Environmental Policy Act (NEPA) implementing procedures (10 CFR Part 1021). In addition, the contractor shall provide support to Department of Toxic Substance Control (DTSC) for their CEQA Environmental Impact Report (EIR) analysis, complete chemical co-located sampling with Environmental Protection Agency (EPA), complete the data gap analysis and associated additional sampling, and prepare the Soils Remedial Action Implementation Plan. The Contractor shall evaluate any possible contaminants of concern, including both radiological and hazardous substances. The environmental sampling and analysis could cover any of the following media: water and sediment, soil, rock, air, biota and other environmental media.

2. BACKGROUND

- 2.1. The SSFL is located atop a range of hills between the Simi and San Fernando Valleys, north of Los Angeles in Ventura County, California. The SSFL is owned and operated by The Boeing Company. The SSFL is divided into four administrative areas—Area I, Area II, Area III and Area IV. A 42-acre portion of Area I and all of Area II (404 acres), are owned by the Federal Government administered by the National Aeronautics and Space Administration (NASA) and operated by The Boeing Company. Areas I and III are operated and mostly owned by The Boeing Company. Areas I and III total 785 acres. The Boeing Company also owns a contiguous buffer zone of 1143 acres to the south and a contiguous buffer zone of 182 acres to the north. The westernmost 290 acres of the site, known as Area IV, and is owned by The Boeing Company for DOE. Area IV was used primarily for research and component testing in nuclear, solar and geothermal energy development. The ETEC occupies about 90 acres within Area IV with various buildings being owned by the DOE. ETEC presently includes buildings which house test apparatus for large scale heat transfer and fluid mechanics experiments, mechanical and chemical test facilities, office buildings, and auxiliary support facilities. ETEC is surplus to the DOE's current mission and is undergoing closure. The site had numerous facilities, including

some where chemical and radioactive substances were used. Contamination may exist in structures and the physical media including soils, surface and groundwater.

- 2.2.** DOE issued an Environmental Assessment (EA) (DOE/EA-1345), Environmental Assessment for Cleanup and Closure of Energy Technology Engineering Center in 2003. The Department of Energy issued a Finding of No Significant Impact (FONSI) that determined that DOE would implement its preferred alternative of cleaning up radiological facilities and surrounding soils to a 15 millirem exposure per year standard plus As Low As Reasonably Achievable (ALARA). DOE determined that implementation of this alternative would be fully protective of future users of the site and did not significantly affect the quality of the human health or the environment within the meaning of NEPA. DOE decided not to prepare an EIS.
- 2.3.** On May 2, 2007, the U.S. District Court for the Northern District of California (*Natural Resources Council et al. v. DOE et al.*) directed DOE to complete an EIS and Record of Decision for Area IV of SSFL, and “permanently enjoined the DOE from transferring ownership or possession, or otherwise relinquishing control over, any portion of Area IV until the DOE completed the EIS and issued a Record of Decision.” In addition, the Court Order required the DOE to consider the following:
- The effects of possible contamination by other non-radiological toxic or otherwise hazardous materials
 - Address multiple exposures, i.e., chemical and radiological, as well as exposure to multiple radionuclides; and,
 - Possible radiological contamination of groundwater.

The DOE recognizes the need to prepare an EIS and fully endorses a thorough evaluation of a range of reasonable alternatives. DOE is pursuing an EIS as an optimal step in the process of successfully remediating Area IV. The EIS must include evaluation of a full range of reasonable alternatives and include analysis of any potential hazardous and radiological contamination. In addition, the EIS must evaluate previous actions undertaken in Area IV and any residual impact. The site also has significant interest from the general public, Federal and State regulatory agencies, and stakeholder groups. The EIS will be subject to rigorous review by each of the before-mentioned groups.

- 2.4.** An Advanced Notice of Intent (ANOI), a Notice of Intent (NOI), and an amended NOI have all been previously published in the Federal Register announcing DOE’s intent to prepare an EIS and the status of that preparation. These processes coupled with extensive initial public involvement activities form the basis for the ongoing process that actively involves all parties in the design of the process for public and regulatory involvement in the EIS.

- 2.5. In December 2010, DOE signed an Administrative Order on Consent (AOC) with the State of California. The 2010 AOC requires DOE to prepare a Soils Remedial Action Implementation Plan. This plan shall summarize the previous radiologic and chemical sampling activities, describe the nature and extent of residual radiological and chemical contamination at the Site, include the planned remedial action and objectives, disposal strategies, any areas proposed for alternative technology implementation, any mitigation measures necessary to address identified environmental impacts and provide a remediation schedule. The AOC also requires that DOE prepare as part of the Soils Remedial Action Implementation Plan a Soils Remedial Design that details the technical and operational plans for implementation of the Soils Remedial Action Implementation Plan.

3. GENERAL REQUIREMENTS

- 3.1 The Contractor shall provide environmental remediation services, i.e. to complete the preparation of an EIS for Area IV and the NBZ of the SSFL pursuant to Council on Environmental Quality regulations (40 CFR Part 1500-1509) and DOE NEPA implementing procedures (10 CFR Part 1021). In addition, the Contractor shall provide support to DTSC for their CEQA EIR analysis, complete chemical co-located sampling with EPA, complete the data gap analysis and associated additional sampling, and prepare the Soils Remedial Action Implementation Plan. The Contractor shall characterize groundwater in Area IV, prepare a RCRA Feasibility, a Corrective Measure Study and a Corrective Measure Implementation Study for groundwater. The Contractor shall be required to evaluate any possible contaminants of concern, including both radiological and hazardous substances. The environmental sampling and analysis could cover any of the following media: water and sediment, soil, rock, air, biota and other environmental media. The Contractor shall complete the groundwater RCRA Facilities Investigation through submittal of the Corrective Measures Study document.
- 3.2 The Contractor shall furnish all labor, professional services, materials, equipment, facilities, transportation, and incidentals necessary to perform in accordance with this PWS. All documents, maps, photos, graphics, mailing lists, etc, shall become Federal property upon acceptance.
- 3.3 The Contractor shall support the Soils Treatability Study work by providing sampling results, technical expertise, and implementing treatability studies. This may entail review and comment on proposed treatability work plans, assistance with public and regulator interactions, and development of technical memorandums.
- 3.4 Release of Data. All data, reports, and materials contained or developed in this project shall not be released without written approval of the Government.
- 3.5 Meeting Memoranda. The Contractor shall furnish the Government a

memorandum of each meeting held, summarizing any agreements or decisions reached. All memoranda shall be provided within five (5) work days of the meeting.

- 3.6 The Contractor shall comply with DOE and site owner safeguards and security requirements to obtain entry to DOE facilities and site facilities. The Contractor shall comply with DOE and site owner environment, safety, and health requirements.
- 3.7 The Contractor shall provide its own office space. The office space shall be maintained throughout the period of performance of this agreement.
- 3.8 The Contractor shall use Microsoft Office for the preparation of all deliverable documents. The Contractor can use various types of models in support of preparation of the EIS and soil and groundwater reports. The Contractor shall provide all model input and output data to DOE.
- 3.9 The Contractor shall implement a formal change control process in accordance with Section I clause FAR 52.243-6 CHANGE ORDER ACCOUNTING. Each revision of the cost report will be submitted to DOE for review within the monthly progress reports so that the incremental costs of changes and corrections may be tracked. The basis of the cost estimates should include such categories as approach, cost assumptions, cost elements, direct labor, fringe benefits, direct costs, overhead, travel, general and administration, purchased equipment, purchased material, subcontracts, cost of facilities capital, inflation factor, etc.
- 3.10 The Contractor shall be required to prepare and submit brief monthly progress reports to the Designated Contracting Officer (DCO), Designated Contracting Officer's Representative (DCOR), and the DOE Office of Project Assessment. The monthly reports shall contain accurate, up-to-date accounts of all major work accomplishments and outstanding issues. The report will include a list of remaining milestones to be accomplished. Progress will be documented at a WBS level sufficient to provide clear visibility into all major tasks. Significant variances to planned work should be discussed, providing the reasons for the variance and planned corrective action. The monthly report will additionally provide a summary by WBS of current expenditures, expenditure plan for the balance of the fiscal year, and available funding. Reports shall be submitted throughout the remaining period of this agreement.

The monthly progress reports will be due by the 15th of each month.

The Government reserves the right to request unscheduled meetings with the Contractor to review and discuss the progress and to discuss any problems or concerns that may arise. The Contractor may also request meetings with the Government. Dates and locations for these meetings shall be mutually agreed upon as necessary. Meetings will continue to occur throughout the remaining period of this agreement.

4. CHEMICAL SAMPLING FIELD WORK INCLUDING DATA GAP SAMPLING

- 4.1.** The Contractor shall implement the requirements of the DTSC approved Master Field Sampling and Analysis Plan (MFSAP), the Health and Safety Plan (HASP), and the Quality Assurance Project Plan (QAPP). As the work progresses and in consultation with DOE and DTSC, it may become necessary to amend the MFSP, the HASP, the QAPP or to develop activity specific health and safety plans. The Contractor shall prepare these plans in draft form, submit to DOE and incorporate any DOE, DTSC, and stakeholder comments.

 - 4.1.1.** The Contractor shall prepare 10 hard copies, an MS word version, and a “pdf” version for posting on the DOE and DTSC websites and, if needed due to file size 10 electronic copies (CD’s) for distribution to DTSC, DOE, and stakeholders.
- 4.2.** The Contractor shall prepare specific sub-area addendums to the MFSAP approved by DTSC. These sub-area addendums shall cover field sampling activities in sub-area 5A, 3/6, 7, 5D, and 8, and go-back sampling, and support trenching and soil gas sampling. The Contractor shall prepare several working drafts of the MFSAP addendums for review by DOE, DTSC, EPA, and the community. These addendums shall identify sampling locations, and proposed chemical analysis.

 - 4.2.1.** The Contractor shall prepare 10 hard copies, an MS word version, and a “pdf” version for posting on the DOE and DTSC websites and, if needed due to file size 10 electronic copies (CD’s) for distribution to DTSC, DOE, and stakeholders.
- 4.3.** The Contractor shall work interactively with DOE, DTSC and the data gap analysis contractor to ensure that all requirements for the Phase 3 Data Gap Sampling as described in Section 2.5.3.3 of the 2010 AOC are met and reflect the results of the data gap analysis.
- 4.4.** The Contractor shall prepare for and host meetings with the community presenting each sub-area addendums. The meeting shall be about 3 hours in length and held at or near the site. The Contractor shall prepare the meeting presentation, hand out materials, and host and facilitate the meeting.
- 4.5.** *Field Work*

 - 4.5.1.** SSFL Site Procedures and Access. The Contractor shall work closely with DOE with respect to access to the SSFL and shall continue the access agreement requirements as signed between Boeing and the Contractor. The Contractor shall also ensure that all Contractor staff are trained and work in compliance with the Boeing SSFL requirements for doing work at SSFL.
 - 4.5.2.** Data Gap Samples. The Contractor shall take all steps necessary to obtain chemical data gap samples. This

includes procuring chemical analytical services for all analyses listed in Table 1. The Contractor shall research the capabilities of the laboratories in achieving the agreed upon requirements for the Interim Screening Levels and eventual Look-up Table lower reporting limits than those normally requested for analytical services.

- 4.5.3.** Sample Management. The Contractor shall set up a sample management and shipping facility in its office trailer at SSFL. The Contractor shall procure all supplies and materials necessary to manage the co-located samples in the field. Contractor shall continue to manage the sample management and shipping facility for processing of groundwater samples.
- 4.5.4.** Utility Clearances and Permits. The Contractor shall be responsible for obtaining the appropriate digging permits from the site and shall be responsible for coordinating all utility clearances with the property owner. The Contractor shall take all reasonable precautions to protect persons and property near the work site, and shall restore the site to its original state when the field work is complete. The Contractor shall continue to support utility clearances and required permits.
- 4.5.5.** Other Environmental Media. Biota and any other environmental media have the potential to be analyzed as part of the Data Gap Analysis. The quantity of this type of sampling will be based on the Contractor evaluation of existing data. The Contractor shall provide a complete evaluation if any additional environmental media requires characterization. This information shall be provided in the Gap Analysis.
- 4.5.6.** The Contractor shall implement the addendums to the MFSAPs. The Contractor shall provide field personnel to handle the samples in accordance with the MFSAP. The Contractor shall procure the services of a direct push drill technology, and shall be required to hand auger to most effectively obtain soil samples.
 - 4.5.6.1.** Drilling Equipment. Drill rig, drilling pipe (augers and pipe), work surfaces, and all other associated equipment shall be free of contamination before entering site. The drill rig, drilling pipe (augers and pipe), work surfaces, and vehicle wheels shall be steam-cleaned using a high temperature, high pressure steam cleaner before entering the work site. The drill rig and all associated equipment shall be decontaminated before leaving the site. Any other vehicle and/or equipment which come into contact with contaminated soils shall be decontaminated. All decontamination procedures shall follow the MFSAP. All liquids generated during decontamination procedures shall be collected and disposed of in

accordance with Federal and State regulations. This requirement is applicable to the groundwater RFI program.

4.5.7. The Contractor shall label sample containers and fill the containers with soil material. The Contractor shall complete sample labels, record sampling information in a field log book per the FSAP, complete the chain of custody form, shipping documentation, and prepare samples for shipment to the analytical laboratories. The Contractor shall follow-up with each analytical laboratory sample shipment receipt to ensure samples were received properly. This paragraph shall also apply to the management of groundwater samples.

4.5.8. Site Investigation Data Review

4.5.9. The Contractor shall review the analytical reports received from the laboratory for documentation that demonstrates completeness and adherence to sample handling, preparation, analysis, and quality control protocols. Contractor shall document this data completeness review in the Sampling and Analysis Report.

4.5.10. The Contractor shall subject the analytical data to an EPA Level 4 data validation review. This data validation shall be completed for the Phase 1 Northern Buffer Zone sampling activities, the Area III Sediment Sampling, and for sub-areas 5A, 5B, 5C, 3/6, 7, 5D, and 8. A separate data validation report shall be prepared for each sample delivery group. The data validation efforts will be summarized in the body of the Sampling and Analysis Report with the actual validation reports appended to the document.

4.6. Following the data review and validation, the analytical results shall be incorporated into the overall SSFL sampling data base. Contractor shall take over management of the data base, once managed by Boeing. The Contractor shall continue to implement the Standard Operating Procedures to ensure data correctness and integrity.

4.7. The DTSC, coordinating with DOE, may collect split samples: (soil, water, waste, sediment, etc.). Using a State-certified and EPA approved laboratory, the sampling activities shall be in conformance with State and EPA, Region IX Field and Sampling Protocols. The contractor shall be responsible for obtaining and submitting blanks and spikes. The contractor shall ensure that split samples shall not exceed holding times, established by the State or EPA, and shall ensure that there will not be any weekend deliveries to the laboratory. State and/or EPA may overview the contractor in the field.

4.8. Sample and Analysis Report Phase 3

- 4.8.1.** The Contractor shall prepare a results technical memorandum that documents each sub-area's results. This report shall describe the sampling episode, the area investigated, investigation methods, analytical suites, variations from the MFSAP (reasons and potential impacts to the data), provide analytical results tables, and study area maps showing locations of samples with results that exceed action levels (background and risk-based screening levels). The Contractor shall prepare a draft report for DOE review. Upon acceptance the report shall be provided to DTSC and the community.
 - 4.8.1.1.** The Contractor shall prepare 10 hard copies of each results technical memorandum, a word version, and a "pdf" for posting on the DOE and DTSC websites and, if needed due to file size 10 electronic copies (CD's) for distribution to DTSC, DOE, and stakeholders.
- 4.8.2.** Each individual sub-area's data summary report shall be combined into a Radiological and Chemical Data Summary Report. This Radiological and Chemical Data Summary Report shall contain a summary of the entirety of the data collection efforts and shall include the horizontal and vertical extent of contamination in the soils that exceed background levels of radiological and chemical contamination.
 - 4.8.2.1.** The Contractor shall prepare 10 hard copies, a word version, and a "pdf" for posting on the DOE and DTSC websites and, if needed due to file size 10 electronic copies (CD's) for distribution to DTSC, DOE, and stakeholders.

5. SOIL TREATABILITY TEST PLAN IMPLEMENTATION

During the first phase of the Soil Treatability Study, Sandia National Laboratories (SNL) conducted a literature review and a review of known information about the nature and extent of the soil contamination within Area IV and the NBZ. SNL's final product is a recommendation for five treatability studies (Phytoremediation, Bioremediation, Mercury/Thermal, Soil Partitioning, and Natural Attenuation).

- 5.1.** The contractor shall conduct the recommended bench and/or field studies and shall also conduct the five treatability studies (Phytoremediation, Bioremediation, Mercury/Thermal, Soil Partitioning, and Natural Attenuation) per the SNL recommendation.
- 5.2.** Detailed work plans, including a comprehensive treatability study work plan describing the overall goals of the treatability studies, consistent with the requirements of DTSC and compliance with the 2010 AOC shall be prepared and approved by DTSC prior to the contractor conducting the work for the bench and/or field studies and treatability studies.
- 5.3.** The Contractor shall implement the DTSC approved soil treatability

work plans developed as a part of the Soil Treatability Study.

5.3.1. Plans shall be implemented for both bench scale and pilot scale testing and use the approved processes and procedures as described in Section 4.5.

5.3.1.1. A data summary report shall be prepared that details results of the study and recommendations for additional work as may be warranted based on the study results. The Contractor shall prepare 10 hard copies, a word version, and a "pdf" for posting on the DOE and DTSC websites and, if needed due to file size 10 electronic copies (CD's) for distribution to DTSC, DOE, and stakeholders.

6. ENVIRONMENTAL IMPACT STATEMENT

6.1. The EIS shall be prepared in accordance with the Council of Environmental Quality's NEPA Implementing Regulations and the DOE NEPA Implementing Procedures. The Contractor shall be intimately familiar with Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA) and CEQA requirements. Understanding of these regulatory areas is critical to the success of proper evaluation of the Area IV and NBZ remediation alternatives.

6.1.1. The CEQ regulations at 40 CFR § 1502.10 provide a format for an EIS: (a) cover sheet, (b) summary, (c) table of contents, (d) purpose of and need for action, (e) alternatives, including the proposed action (sections 102(2)(C)(iii) and 102(2)(E) of NEPA), (f) affected environment, (g) environmental consequences (especially sections 102(2)(C) (i), (ii) (iv), and (v) of NEPA), (h) list of preparers, (l) list of agencies, organizations, and persons to whom copies of the EIS are sent, (j) index, (k) appendices (if any). The Contractor shall use this format in preparation of the Area IV EIS.

6.1.2. The sections of the Area IV EIS that describe the "purpose and need for agency action" shall be written collaboratively with DOE, stakeholders, and the California Environmental Protection Agency (CalEPA) Department of Toxic Substances Control (DTSC) staff with support from the EIS Contractor. The proposed actions and range of alternatives shall be developed interactively with a series of Alternative Development Workshops sponsored by DOE and supported by the Contractor. The proposed actions may change during document preparation as the result of further consideration, public comment, or external developments. The purpose of the EIS shall have a specific objective. The need shall either eliminate a broader underlying problem or take advantage of opportunities to effectively

remediate Area IV. All other portions of the EIS as prepared by the Contractor are subject to independent review and verification of data and analyses by DOE and may need to be changed or modified accordingly.

- 6.2.** EIS preparation requires an interdisciplinary approach that integrates use of the natural, physical, and social sciences and the environmental design arts. The preparers' disciplines shall be appropriate to the identified scope and issues. For the Area IV EIS, the expertise needed in the NEPA document preparation team shall include but is not limited to: waste treatment, management, and disposal; nuclear physics, radiation safety, health physics, various fields of engineering, surface and groundwater hydrology and water quality, geology and seismicity, air quality and meteorology, radioactive and chemical contaminant transport, traffic and transportation safety, terrestrial and aquatic ecology, radioecology, land use management, endangered species biology, soil science, wetland management, water resource planning, paleontology, archaeology and cultural resources, utility and infrastructure design, occupational and public health and safety, noise, socioeconomics, visual resources, recreation, landscape architecture, environmental justice, modeling, statistical analysis, and risk assessment, including analysis of accidents and intentional destructive acts. The Contractor shall know the requirements for environmental review under the CEQA. The Contractor shall prepare the Area IV EIS and provide feedback to DOE on how the Area IV EIS is either consistent or differs from what an Area IV EIR would require under CEQA requirements.
- 6.3.** The Contractor shall integrate the EIR values, as stated in CEQA, into the Area IV EIS if regulatory negotiations lead to this conclusion. If it is determined during stakeholder involvement that an integrated EIS/EIR is the proposed path then the Contractor shall be responsible for performing this function.
- 6.4.** The EIS shall describe the remediation alternatives for Area IV as developed by the Alternative Development Workshop Series and this analysis shall be based on the impacts to the environment, workers and the public. Action alternatives that meet the purpose and need for remediation and closure shall also be described and analyzed for their environmental consequences. Environmental effects analyses shall be conducted in the following areas: surface water and groundwater contamination and hydrology, soil contamination and geology, airborne contamination, ecological resources (endangered species and wetlands), waste management, transportation, socioeconomic, environmental justice, cultural and paleontological resources, and facility decontamination and decommissioning. Cumulative impacts shall be analyzed to determine significance and effect on the environment. Measures which shall avoid or mitigate potentially significant environmental impacts shall be described.
- 6.5.** The Contractor shall support the DOE in gathering and assembling into a concise and descriptive statement the proposed activities to be addressed in the EIS. The Contractor shall develop fully the draft

purpose and need statement that was shared with stakeholders and regulators during the Alternative Development Workshop Series conducted during summer 2012. The alternatives developed as part of that series shall also be described and analyzed in the EIS.

- 6.6.** The Contractor, with Government assistance, shall develop a specific milestone schedule to complete the EIS process for this action by the Contractor to manage work on the EIS and by the Government to monitor the progress of work on a monthly basis. The schedule shall also include specific dates that demonstrate when milestones shall be met. A copy of the schedule, with any revisions or updates, and status of the project milestones shall be presented in the monthly progress reports. Contractor shall continue to provide the updates of the milestone schedule on a monthly basis throughout the remaining period of this agreement.
- 6.7.** The Contractor shall prepare and assemble the Administrative Record (AR) and furnish it to the Government after the Record of Decision (ROD) is signed. The AR shall be the entirety of the information relied upon to prepare the EIS. The AR shall be inclusive of all information and analyses either generated or obtained from other sources, or used to support documentation and analyses. A complete AR shall be the entirety of the information relied upon within the Contractor's possession plus all information in other locations listed in the references. Information listed in the references at other locations do not have to be included. The Contractor shall organize the information composing the AR as an accessible file, indexed by topic to the extent possible, and shall submit this record to the Government. The AR File for the EIS is the property of the Government. The DOE may direct the Contractor to transfer the AR file to DOE at any time during the EIS preparation process and the Contractor shall comply within five days of notification.
- 6.8.** The Contractor shall be responsible for preparing and publishing the Notice of Scoping Meetings or other public meetings in newspapers of general circulation within the affected areas. The notices shall be published in these newspapers approximately 14 days and 7 days prior to the scheduled meetings. The Contractor shall provide the draft notices for Government review at least 14 days prior to the proposed publication date. A copy of the public notice meeting shall be mailed by the Contractor to the entire mailing list for receipt approximately two weeks prior to the scheduled meetings.

 - 6.8.1.** *Plan and conduct scoping meetings arranging for public advertisements, public notice, logistics, meeting material preparation, scoping transcript.* The Contractor shall be responsible for making arrangements for the DOE approved date and time of each meeting or hearing; provide publicity, setup, registration for attendees, security, handouts, copy and distribution, audio, visual and computer support, language translator, and takedown support; assist in preparing written instructions for hearing officials, including opening and closing statements, if necessary; assist with preparing presentation materials; and provide timely distribution of transcripts and written comments to public reading rooms and interested parties.

- 6.8.2.** The Contractor, in consultation with the Government, shall provide all logistic support (including leasing of a meeting room and obtaining the services of a court reporter and conduct the public scoping meeting(s)) to gain input from the public concerning the scope of issues and level of analysis to be considered in the EIS. The DOE will work closely with the Contractor when determining locations of the meetings and hearings and the Contractor shall make all the arrangements for the facilities.
- 6.8.3.** *Responses to Public Comments.* The Contractor, in coordination with the Government and the cooperating agencies, shall prepare responses to public comments on the Scoping and Draft EIS (DEIS) and provide the comments and drafted responses to the Government for review and comment. Responses to comments shall also include additional tables, graphics or additional data for review and incorporation into the text or appendices of the Final EIS (FEIS) as well as corrected text from the DEIS. The Contractor shall coordinate with the Government on the method to be used for comment response, identifying major comments and any conflicting comments. All responses shall be subject to approval by the Government prior to finalization for inclusion in the Preliminary Draft EIS (PDEIS).
- 6.9.** The Contractor shall prepare a PDEIS for all of Area IV and the NBZ in accordance with the following requirements:
- 6.9.1.** *Implementation of Baseline Environmental Conditions.* The Contractor shall use environmental reports and data and prepare narratives documenting baseline environmental and socio-economic conditions. The Contractor shall also use all the previously collected sampling data from the RCRA Facility Investigation (RFI) process as well as the AOC Phase 1, 2, and 3 sampling efforts. The information assembled shall be sufficient to (1) assess the environmental, historic, economic and social values that will be affected, either beneficially or adversely, by the proposed actions and alternatives and (2) demonstrate compliance with related environmental requirements, and (3) evaluate proposed actions and all connected actions (40 CFR 1508.25). Connected Actions are independent parts of a larger action and depend on the larger action for their justification.
- 6.9.2.** *Economic Impact Analyses.* The Contractor shall perform regional economic impact analyses of the proposed action and its alternatives using accepted analysis techniques. Socioeconomic setting data shall be gathered from existing sources. The socioeconomic analyses shall examine the effects of the proposed action and its alternatives on the availability of local housing and on the ability of the affected, local infrastructure (i.e., traffic, school, hospitals, municipal services, etc.) to accommodate any increased demands to be potentially

placed upon them.

- 6.9.3.** Cultural Resources. In implementing as part of this EIS process the Advisory Council on Historic Preservation's regulations entitled, Protection of Historic Properties, and found at 36 CFR Part 800, the Contractor shall review current historic property documents provided by the Government and the regulatory/cooperating agencies (see DOE-ETEC website: http://www.etec.energy.gov/Environmental_and_Health/Cultural.html). The Contractor shall also request documents from the State Historic Preservation Officer and relevant academic and local area sources. Relevant information from these documents must be included in the cultural resource sections of the PDEIS. These documents can include local or regional histories, archeological surveys, historic architectural inventories, cultural resource management plans, agreements, etc. All maps of any cultural resource sites that will be included in the EIS shall be provided by the Contractor at a scale such that specific sites cannot be easily found and the resources thereby protected.
- 6.9.4.** Wetlands. For the purpose of implementing and documenting the requirements of the Executive Order on Wetland Protection within this PWS, the Contractor shall use existing information and data from traditional sources such as the U S Fish and Wildlife Service, U S Army Corps of Engineers, and State water resource agencies. Based upon information provided, maps and other descriptive information shall be adapted by the Contractor and included in the PDEIS in order to support the analysis of the extent, amount and importance of any wetlands to be impacted by the proposed action and its alternatives.
- 6.9.5.** Threatened and Endangered (T&E) Species. For the purpose of implementing and documenting the consultation procedures under Section 7 of the Endangered Species Act, the Contractor shall formally coordinate with the U S Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS), when appropriate, to determine possible impacts to (i) any threatened or endangered species listed or proposed (ii) candidate species, and (iii) any listed or proposed critical habitat. Coordination with the USFWS, NMFS, and the State game and fish management agencies, as appropriate, shall be documented. Potential impacts to State listed species shall also be addressed in the PDEIS. The PDEIS should identify all petitioned and listed T&E species and critical habitats.
- 6.9.6.** Environmental Justice. The Contractor shall obtain information on the presence of Indian Tribes, other minority populations and low income populations in the project area as part of the regional economic analyses. If initial studies indicate that a target population(s) is located within a geographic area to be impacted by the proposed action or its alternatives, per the previously referenced guidance on implementing Executive Order 12898,

specific proactive steps must be implemented in order to include the identified target population(s) in the public participation plan. As described in Executive Order 12898, the potential or absence of effects of the proposed action and its alternatives on minority and low income target populations shall be specifically addressed in the Environmental Consequences section of the PDEIS.

- 6.9.7.** Existing Environmental Pollution, Hazards and Other Health and Safety Risks. The Contractor shall obtain information from the EPA or equivalent State agencies regarding any existing hazardous conditions at the site of the proposed action and its alternatives that may pose health and safety risks to future construction workers, employees, occupants, or visitors. Hazardous materials and hazardous waste and all associated direct, indirect, and cumulative impacts shall be addressed. The Contractor shall perform any required risk calculations/dose calculation necessary in support of alternatives evaluation. These calculations shall require the Contractor to be familiar with CERCLA, RCRA and CEQA requirements.
- 6.9.8.** Floodplains. For the purpose of implementing and documenting the requirements of the Executive on Floodplain Management within this PWS, the Contractor shall use existing information and data from the Federal Emergency Management Administration with alternative sources being the U S Army Corps of Engineers, State water resources agency, or a region specific agency with special expertise. Based upon the information provided, maps and other descriptive information shall be adapted by the Contractor and included in the PDEIS to support the analysis of the extent, amount, and importance of any floodplains to be impacted by the proposed action and its alternatives. The PDEIS shall identify any alternative that is within a 50 year or 100 year floodplain. The PDEIS shall describe all waters of the U.S. that could be affected by the project alternatives. The discussion shall include acres, habitat types, values and functions of the water.
- 6.9.9.** Noise and Light. Existing data shall be reviewed as well as literature examined to evaluate the potential noise and light impacts of the proposed action and its alternatives. The Government will provide relevant data, if available, from similar operating facilities. The Contractor shall address the projected changes of noise and light levels that will be generated by the proposed action and its alternatives, especially with respect to any sensitive receptors.
- 6.9.10.** Mitigation. During the course of performing the analyses and evaluations required to complete the EIS, the Contractor shall provide DOE with a Mitigation Plan. The contractor shall provide to the Government appropriate measures that would avoid or mitigate any adverse impacts which might be identified. The PDEIS shall evaluate measures to reduce construction

emissions of criterion air pollutants and hazardous air pollutants. Hazardous waste mitigation and pollution prevention techniques need to be considered and evaluated.

- 6.9.11.** Air Quality. The PDEIS shall provide a detailed discussion on ambient air conditions, (baseline or existing), National Ambient Air Quality Standards (NAAQS), criteria pollutant non-attainment areas, and potential air quality impacts of the project alternatives.
- 6.9.12.** Water Resources. The PDEIS shall estimate the quantity of water that each alternative will generate. The PDEIS shall describe the source of this water and potential effects on other water users and natural resources. If groundwater is used, the PDEIS shall clearly depict reasonably foreseeable direct, indirect and cumulative impacts to the resources. Specifically, the potentially affected groundwater basin shall be identified and any potential for subsidence and impacts to springs or other open water bodies and biological resources shall be analyzed.
- 6.9.13.** Project Water Discharges. The PDEIS shall address any potential effects of discharges to surface water and its quality. The specific discharges shall be identified and potential effects of discharges on designated beneficial uses of affected waters shall be analyzed. If alternatives evaluate a zero discharge facility, the PDEIS shall disclose the amount of process water that would be disposed of on-site and explain containment methods. If any types of evaporation ponds are part of alternatives they shall be evaluated for potential environmental effects, such as runoff.
- 6.9.14.** Drinking Water Supplies. The PDEIS shall provide information on potentially affected drinking water systems as well as the magnitude of cumulative impacts. Both public and private water systems shall be included in the evaluation.
- 6.9.15.** Invasive Species. Executive Order 13112, Invasive Species (February 3, 1999), need to be factored into the alternative evaluations. The PDEIS shall discuss methods to minimize the economic, ecological and human health impacts from invasive species. Mitigation methods shall be evaluated that consider introduction of native plant species as part of the alternatives.
- 6.9.16.** Cumulative Impacts. The PDEIS shall describe the impacts on the environment which results from the incremental impact of the action when added to other past, present and reasonably foreseeable future actions. Per the Council on Environmental Quality (CEQ), the cumulative impacts shall provide the magnitude of the impacts of the alternatives by analyzing these impacts. The analysis shall consider air, groundwater, hydrology, soils, biological resources, and cultural resources.
- 6.9.17.** For each resource analyzed, the PDEIS shall:

- Identify the current condition of the resource as a measure of past impacts. For example, the percentage of species habitat lost. In addition, a baseline needs to be identified and defended.
- Identify the trend in the condition of the resource as a measure of present impacts. For example, the health of the resourced is improving, declining or is static.
- Identify all other ongoing, planned, and reasonably foreseeable projects in the study area that may contribute to cumulative impacts.
- Identify the future condition of the resource based on the analysis of the cumulative impacts of reasonably foreseeable project alternatives.
- Assess the cumulative impacts contribution to the long-term health of the resource and measure projected impacts.
- Disclose how these impacts could be mitigated.
- Include opportunities to avoid such impacts.

6.10. Maps. The Contractor shall obtain and/or adapt appropriate existing land use maps for inclusion in the PDEIS showing the location of study area boundaries and environmentally sensitive areas that may be affected by the proposed action and its alternatives. The Contractor shall use the Geographic Information System (GIS) to produce EIS maps. These maps shall include, but not be limited to, wetlands, cultural resource sites, endangered/threatened species habitat (State and Federal), floodplains and waterways, important farmlands, severely eroded sites, and any sensitive natural areas. Maps shall be adapted to assure that a balanced or equivalent presentation of information is shown throughout the document for each resource area. A map(s) displaying the regional and site locations of the proposed action and its alternatives shall also be included in the PDEIS.

6.11. Preparation of PDEIS. Using information describing the proposed actions and alternatives, baseline environmental information, scoping information, and information gathered as part of planned additional characterization efforts; the Contractor shall address the impacts anticipated from the proposed action and its alternatives. The PDEIS shall be prepared in conformance with both the CEQ regulations and DOE Order 451.1B.

6.11.1. Analysis. The Contractor is responsible for identifying, documenting, and analyzing relevant conditions, issues, and effects associated with the proposed action and alternatives. This document shall be structured so as to include only the data to perform the analysis. The Contractor is required to use all data available and relevant to perform their alternative evaluations. Alternatives that fulfill the purpose of the project and need shall be evaluated in detail. A robust range of alternatives shall include options for avoiding significant environmental impacts. The PDEIS shall provide a clear discussion of the reasons for elimination of any alternative.

6.11.2. Format of the PDEIS. The format to be used is the one specified in the CEQ regulations. The text shall be error free, complete,

clear, concise, and grammatically correct. The main text of the report shall be written in a manner suitable for reading by persons not professionally trained for the technical subject discussed. Acronyms shall be used only on a limited basis. Any acronyms used shall be defined on first use and included in a list of acronyms page.

- 6.11.2.1.** Submittal of PDEIS. The Contractor shall submit the PDEIS to the Government for review and comment. The Contractor shall prepare 5 hard copies, a word version, and a “pdf”.
- 6.11.2.2.** The Contractor will incorporate DOE comments into the PDEIS and produce a Draft for final approval by DOE.
- 6.11.2.3.** Prior to the preparation of the Draft Environmental Impact Statement, DOE may direct the Contractor to revise further the PDEIS. The Contractor will evaluate the changes necessary changes due to additional DOE direction and revise the PDEIS as appropriate.
- 6.11.2.4.** If a significant amount of time (at least 12 months) has passed between the preparation time of the revised PDEIS and the proposed distribution date of the Draft EIS, the contractor shall re-evaluate each resource area and determine if the information contained in the PDEIS is still the best available information or if any of the analysis will need to be refreshed.
- 6.11.2.5.** The contractor will discuss suggested additional analysis with DOE, and DOE will determine any additional work that must be done prior to release of the Draft EIS.
- 6.11.2.6.** The Revised PDEIS will be resubmitted to DOE for comment and review. The Contractor will incorporate any additional changes and produce the Draft EIS based upon resolution of DOE’s comments.

- 6.12.** *Draft Environmental Impact Statement (DEIS).* Following the review and acceptance of the PDEIS by the Government, the Contractor shall proceed with the preparation of the DEIS document.

- 6.12.1.** The front cover of the DEIS (and FEIS) shall contain the title of the document, the DOE name, date of official release (month and year), and the name of the Contractor who prepared the document.
- 6.12.2.** Upon approval of the DEIS by the DOE, the Contractor shall provide an electronic file in Microsoft Office, and “pdf” and 50 printed copies. The Contractor shall provide mailing labels for public distribution of the DEIS. The Contractor shall be responsible for reproduction and distribution of the DEIS to the public.
- 6.12.3.** *Public Meetings and Response to Comments DEIS.* The Contractor shall prepare the DEIS and PFEIS in accordance with the CEQ regulations.
- 6.12.3.1.** The Contractor shall prepare a draft and final Notice of Availability (NOA) of the DEIS for Government approval. The locally published NOA shall also give the location and the date and time of the public meeting(s) for receiving comments on the DEIS. After consulting with the Government, the Contractor shall prepare and advertise the NOA in the non-legal section of the local newspaper or newspapers as per defined in the public participation plan. The Contractor shall also prepare a draft news release for Government approval. The draft NOA and [news release] shall be timed for publication concurrent with the filing of the DEIS, at least 30 days prior to the date of the public meeting(s). The Contractor shall distribute the NOA to the entire mailing list approximately 30 days prior to the scheduled meeting(s).
- 6.12.3.2.** The contractor will research, design and develop posters and/or fact sheets for public hearings. The contractor will refine public meet presentations and develop graphics as need. The contractor will provide communication training to everyone with a speaking role. The Contractor, in consultation with the Government, shall schedule, provide all logistic support, and conduct the public meeting(s) for DEIS review. The public meeting shall be held no earlier than 30 days after the NOA appears in the Federal Register. The Contractor shall follow the agreed upon schedule and processes to be defined in the communication plan that shall be in place as part of this effort. The Contractor shall provide a court reporter to transcribe each meeting and prepare a summary report for each public meeting, with a hard copy of

the transcript attached, for Government review.

6.12.3.3. The contractor will provide on-site media support as needed in the days leading up and following the release of the draft EIS.

6.12.3.4. Responses to Public Comments on DEIS. The Contractor, in coordination with the Government and the cooperating agencies, shall prepare responses to public comments on the DEIS and provide the comments and drafted responses to the Government for review and comment. Responses to comments may also include additional tables, graphics or additional data for review and incorporation into the text or appendices of the FEIS as well as corrected text from the DEIS. The Contractor shall coordinate with the Government on the method to be used for comment response, identifying major comments and any conflicting comments. All responses shall be subject to approval by the Government prior to finalization for inclusion in the PFEIS.

6.13. *Preliminary FEIS (PFEIS).* The Contractor shall incorporate the approved revisions and responses to comments from the DEIS into a PFEIS.

6.13.1. Twenty (20) copies of the PFEIS and one electronic version shall be submitted to the Government, and additional copies shall be provided to regulatory and cooperating agencies for review and approval. Additional agency comments shall be incorporated into the PFEIS, as directed by the DOE.

6.13.2. *PFEIS Administrative Review.* The Contractor shall prepare a full version PFEIS for Government review and approval. The PFEIS shall show the contents, page layout, paper quality, cover quality, print quality, tables, graphics, photographs, and related appearance criteria. The PFEIS format shall be the same as for the PDEIS outlined above. The use of high quality graphics, photos, and other illustrative materials is required.

6.13.2.1. Twenty (20) copies of any required revisions to the PFEIS shall be furnished to the Government for final review and approval. If necessary, a PFEIS administrative review meeting shall be held to resolve any open issues.

6.13.3. Submittal of the PFEIS. The Contractor shall include all comments into the revised PFEIS for further DOE and regulatory agency, cooperating agency review. Following DOE review and acceptance, the Contractor shall proceed with the FEIS.

- 6.14. Final EIS (FEIS).** The Contractor shall provide the following support for preparation, filing, and notice of the FEIS.
- 6.14.1. Draft NOA for FEIS.** The Contractor shall perform the same tasks for the publication and distribution of the NOA for the FEIS as was performed for the NOA for the DEIS Publication of the NOA.
 - 6.14.2. Printing, Mailing and Filing FEIS.** The Contractor shall provide two printed copies (plus additional copies for mailing), and an electronic copy of the FEIS to the Government. The Contractor shall also provide printed mailing labels for distribution of the FEIS. The Contractor shall be responsible for reproduction and distribution of the FEIS to the public. The DOE will file the FEIS with EPA. The waiting period for the FEIS, during which review and comments may be made, shall be 30 calendar days after EPA's NOA appears in the Federal Register.
 - 6.14.3. Responses to FEIS Comments.** Any comments received on the FEIS shall be addressed by the Contractor, in draft and final letter format, after coordination with the DOE and, if necessary, any affected cooperating agency. All responses must be approved by the Government. A final response to comments document shall be prepared and provided to the DOE.
 - 6.14.3.1.** The Contractor shall provide 50 copies and an electronic copy of the Final Response to Comments document when they provide the FEIS.
 - 6.14.3.2.** The Contractor, if determined by DOE, shall schedule, provide all logistic support, and conduct the public meeting(s) for FEIS review. If a public meeting is held, meeting transcripts shall be required.
- 6.15. Record of Decision.** The Contractor shall prepare a preliminary draft and final draft ROD as well as its NOA for publication locally. The Contractor's responsibilities for the publication and distribution of this NOA shall be the same as for the NOA for the FEIS. The DOE will be responsible for the publication of its notice of availability in the Federal Register.
- 6.16. Native American Involvement in the Draft EIS Development.** Contractor shall procure the services of a federally recognized Native American Tribe to prepare the tribal history for the EIS and to review and provide input for the Cultural Resource Field Survey Plan, and Cultural Resources and Biological Resources sections of the EIS and subsequent ethnographic studies.
- 6.17. Continued NEPA Technical Support.** As questions and issues arise related to the content of the Final EIS and background information used to develop the record of decision documents, Contractor shall review the Final EIS, support documents used to develop the EIS, any new information developed post Final EIS release, and be prepared to

discuss the findings during technical working sessions with DOE and/or summarize the findings in technical memoranda.

- 6.17.1. The contractor shall conduct a detailed analysis of the 2022 Boeing Settlement Agreement and compare the details from that agreement to the alternatives analyzed in the Final EIS.
- 6.17.2. The contractor shall also provide additional technical support to compare analyze effects on the cleanup that would result from various potential changes to the DOE's agreements with the State of California.

7. BUILDING SAMPLING

- 7.1. The Contractor shall conduct radionuclide characterization of all remaining structures in Area IV. The Contractor shall implement the DTSC approved Building Sampling Plan, conduct the sampling, and prepare a report of the results. A draft report that documents the results of the sampling effort shall be prepared for distribution to DOE and DTSC. After incorporation of DOE and DTSC comments, the plan shall be distributed to stakeholders and a final report shall be prepared that documents the sampling results.
 - 7.1.1. Ten hard copies and 25 electronic (CD) copies shall be made. The electronic version shall also be prepared for placement on the ETEC and DTSC websites.
- 7.2. The Contractor shall perform a survey of the ETEC operations records contained in Building 57 to ensure they are free releasable. The survey shall be performed for both biohazard and radiological contamination. The Contractor shall perform the survey and complete documentation required in accordance with DOE Order 458.1, 10 Code of Federal Regulations (CFR) 835 and 10 CFR 851.
 - 7.2.1. The Contractor shall prepare a Records Survey Plan as required for the radiological and biohazard sampling for the records contained in Building 57. The Plan shall identify instrument and wipe sample survey techniques, proposed field screening requirements for radiological levels, and proposed laboratory analysis. The Contractor shall prepare a working draft of the Survey Plan for review by DOE.
 - 7.2.1.1. The Contractor shall prepare 1 hard copy, and MS word version, and a "pdf" version for review by the DOE.
 - 7.2.2. **Field Work**
 - 7.2.2.1. SSFL Site Procedures and Access. The Contractor

shall work closely with DOE with respect to access to the SSFL and shall continue the access agreement requirements as signed between Boeing and the Contractor. The Contractor shall also ensure that all Contractor staff are trained and work in compliance with the Boeing SSFL requirements for doing work at SSFL.

- 7.2.2.2.** Building 57 Records Characterization. The Contractor shall take all steps necessary to complete the survey using field screening instruments and to obtain radiological and biohazard samples for laboratory analysis. This includes procuring analytical services.
 - 7.2.2.3.** Sample Management. The Contractor shall set up a sample management and shipping facility in its office trailer at SSFL. The Contractor shall procure all supplies and materials necessary to manage samples in the field.
 - 7.2.2.4.** The Contractor shall implement the Records Survey Plan. The Contractor shall provide field personnel to handle the samples in accordance with the Survey Plan.
 - 7.2.2.5.** The Contractor shall label sample containers. The Contractor shall complete sample labels, record sampling information in a field log book per the Survey Plan, complete the chain of custody form, shipping documentation, and prepare samples for shipment to the analytical laboratories. The Contractor shall follow-up with each analytical laboratory sample shipment receipt to ensure samples were received properly.
 - 7.2.2.6.** Following the survey of the records and files, the Contractor shall move the records to an on-site location for secure storage to ensure their cleanliness.
- 7.2.3.** Investigation Data Review
- 7.2.3.1.** The Contractor shall review the analytical reports received from the laboratory for documentation that demonstrates completeness and adherence to sample handling, preparation, analysis, and quality control protocols. Contractor shall document this data completeness review in the Building 57 Sampling and Analysis Report.
- 7.2.4.** Sampling and Analysis Report Building 57 Files

- 7.2.4.1.** The Contractor shall prepare a results technical memorandum that documents the field and laboratory results. This report shall describe the sampling episode, investigation methods, analytical suites, variations from the Records Survey Plan (reasons and potential impacts to the data), provide analytical results tables. The Contractor shall prepare a draft report for DOE review.
- 7.2.4.2.** The Contractor shall prepare 1 hard copy of the results technical memorandum, a word version, and a pdf version on CDs.

8. CONCRETE SLAB CHARACTERIZATION

- 8.1.** The Contractor shall assist DOE with interactions with DTSC to determine a background for concrete slabs. This shall incorporate the processes and procedures that DTSC and EPA used to determine radiological and chemical background for soil.
- 8.2.** The Contractor shall develop a work plan for approval by DTSC to characterize concrete slabs throughout Area IV and the NBZ. This work plan will be implemented using the sample processes and procedures as described in Section 4.5 Field Work.
 - 8.2.1.** The Contractor shall prepare a report detailing the results of the sampling effort.
 - 8.2.1.1.** Ten hard copies and 25 electronic (CD) copies shall be made. The electronic version shall also be prepared for placement on the ETEC and DTSC websites.

9. STAKEHOLDER AND PUBLIC INVOLVEMENT

- 9.1.** The Contractor shall assist DOE with interactions with US EPA and DTSC. This may include the development of technical memorandum and assistance with meetings and meeting notes, review and comment on technical documents, and preparation of deliverables for discussions with DTSC and stakeholders.
- 9.2.** The Contractor shall review, revise, and update the ETEC Stakeholder Involvement Plan. The plan includes stakeholder/ public involvement opportunities including public meetings, focus group meetings, newspaper notices, and news releases/support. The Contractor shall prepare draft revisions to the plan utilizing information gathered by both the Contractor and DOE. The DOE will share this plan with all stakeholders and discuss contents with all interested parties prior to this plan being approved by the DOE. Any Government comments shall be incorporated into the final plan.

- 9.3.** The Contractor shall review, and if determined necessary by the Contractor after direction from DOE, update the Stakeholder Involvement Plan.
- 9.4.** Public notice described more fully in Section 5.8 shall be issued at least two weeks prior to the scheduled public scoping meeting(s) and concurrent with filing of the Draft Environmental Impact Statement (DEIS) and Final Environmental Impact Statement (FEIS), respectively and at other times as deemed appropriate to announce public involvement activities. Notices shall be published in the non-legal section of the newspaper(s) with copies sent to parties on the mailing lists. The DEIS newspaper notice shall include both the notice of availability of the DEIS and the schedule and location(s) for the DEIS public meeting(s). The FEIS notice shall notify the public of the availability of the FEIS. Notices shall be drafted by the Contractor and submitted to the Government for approval prior to their release to the media. Draft news releases shall be submitted in time to accommodate processing by the Government for publication in the news media (minimum 30 days prior to scheduled meetings or release of NEPA document). Development or support of the development of a minimum of 4 news releases shall be part of the Contractor's scope. This shall include: one prior to the scoping meeting(s); one concurrent with filing of the DEIS and prior to its public meeting(s); one concurrent with filing the FEIS; and one concurrent with the Record of Decision.
- 9.5.** The Contractor shall prepare and update when necessary the active stakeholder public mailing list, including all interested of affected agencies, interested parties, various news media and public libraries throughout the area of environmental impact, and individuals commenting during any phases of the EIS process. The stakeholder public mailing list shall be used for all phases of the EIS process from pre-scoping to the ROD. The mailing list(s) shall be edited periodically to include those individuals responding to the scoping requests, part of the focused groups, other correspondents, and those individuals attending the public meetings: and delete those requesting removal from the list, changes in addresses, and undeliverable addresses. Electronic versions of the mailing lists or printed labels shall be provided to the Government upon request. The Contractor shall also establish and staff a toll-free telephone line as part of the stakeholder and public involvement process.
- 9.6.** The Contractor as described in Section 5.8 shall be responsible for preparing and publishing the Notice of Scoping Meeting(s) or other public meetings in newspaper(s) of general circulation within the affected area(s). The notices shall be published in these newspapers approximately 14 days and 7 days prior to the scheduled meetings. The Contractor shall provide the draft notices for Government review at least 14 days prior to the proposed publication date. A copy of the public notice meeting shall be mailed by the Contractor to the entire mailing list for receipt approximately two weeks prior to the scheduled meetings. In addition, the Contractor shall prepare a Summary Scoping Document (less than 15 pages) for purposes of the formal scoping meetings with the public.

- 9.7.** The Contractor shall be responsible for making arrangements for the DOE approved date, and time of each public meeting or hearing; provide publicity, setup, registration for attendees, security, handouts, copy and distribution, audio, visual and computer support, language translator, and takedown support; assist in preparing written instructions for hearing officials, including opening and closing statements, if necessary; assist with preparing presentation materials; and provide timely distribution of transcripts and written comments to public reading rooms and interested parties.
- 9.8.** The Contractor, in consultation with the Government, shall provide all logistic support (including leasing of a meeting room and obtaining the services of a court reporter and conduct the public scoping meeting(s) to gain input from the public concerning the scope of issues and level of analysis to be considered in the EIS (as required by NEPA). The DOE will work closely with the Contractor when determining locations of the meetings and hearings and the Contractor shall make all the arrangements for the facilities.
- 9.9.** The Contractor shall prepare in addition to meeting transcripts, a log of each comment of the results of agency and public scoping coordination. The report shall include a spreadsheet or other tabular format for compiling and sorting public/stakeholder comments obtained at all of the scoping meetings. This shall also include any comments received via email, regular mail or by phone. Upon compilation, the Contractor shall prepare draft responses for DOE approval.
- 9.10.** The Contractor shall, in consultation with the Government, support community group meetings, technical roundtables, regulatory progress review meetings, and working group meetings. The Contractor is expected to have in attendance members of the EIS team to adequately address and answer any questions. In general the Contractor shall be required to assist in conference calls, support, development and providing of presentations, providing summary of action items, and related tasks as necessary. The Contractor shall plan on a minimum of fifteen (15) formal public meetings. In addition, the Contractor shall plan to support approximately once per week meetings such as support regulatory progress review meetings, and working group meetings.
- 9.11.** The Contractor shall produce a newsletter that documents progress. A list of newsletter article topics shall be prepared and submitted for DOE review and approval. The Contractor shall work with technical experts as appropriate to produce topical and timely articles. The newsletter shall be prepared in draft form and after internal review, be submitted to DOE for review. The newsletter shall include appropriate graphics and pictures to enhance readability. The Contractor shall prepare a draft final newsletter for DOE final approval. The Contractor shall be responsible for preparing and mailing the newsletter to the mailing list and providing an electronic copy for posting on the DOE website.

- 9.12.** The Contractor shall provide senior media relations support to include an audit of existing media, develop a multi-faceted media relations strategy, provide media materials, including preparation of infographics. The contractor shall also provide media training. The contractors approach to media should include activities to involve print, radio, TV and social media.
- 9.13.** The Contractor shall develop strategic communication products from time to time as directed by DOE. These products will focus on interactive proactive communication strategies for stakeholders, the media, and elected officials. A draft for DOE comment will be prepared by the Contractor, and after DOE comments are incorporated, a final will be produced.

10. SOILS REMEDIAL ACTION IMPLEMENTATION PLAN

- 10.1.** The Contractor shall prepare two Soils Remedial Action Plans based on the requirements in this section. The first SRAIP shall address cleanup of radionuclides and co-located hazardous chemicals and the second shall address hazardous chemicals above cleanup standards. The Contractor shall prepare and submit a draft Soils Remedial Action Implementation Plan to DOE for review and approval. This report shall be based on and summarize the DTSC approved Chemical Data Summary Report, US EPA's radiologic characterization survey and shall include the following:
- A general description and history of the site
 - The nature and extent of radiological and chemical contamination at the Site
 - The planned remedial action and its objectives
 - Any parts of the site that are proposed for mitigation based on endangered species or protection of cultural resources
 - Any areas proposed for in situ or onsite treatment to achieve cleanup goals including the results of treatability studies conducted
 - A full description of mitigation measures necessary to address any identified environmental impacts
 - A schedule for implementation of the planned remedial actions
- 10.2.** The draft Soils Remedial Action Implementation Plan shall also include the Soils Remedial Design Plan. This plan shall include the technical and operations plans for implementation of the Soils Remedial Action Implementation Plan including:
- Description of equipment used to excavate, handle, and transport contaminated material
 - A dust control and suppression plan that ensures the minimization of airborne dust generation during remedial activities, and an air monitoring plan that monitors the effectiveness of dust control and suppression efforts
 - A transportation plan identifying routes of travel and final destination of wastes
 - An updated health and safety plan addressing the implementation activities

- Identification of all necessary permits and agreements, and demonstration of the acquisition of those permits and agreements
- A detailed schedule for implementation of the remedial action, including procurement, mobilization, construction phasing, sampling, facility startup, and testing.

10.3. The Contractor shall conduct several interactive meetings with DTSC and stakeholders to best develop and discuss the major components of the plans. These meetings shall be several hours in length and may include several topical sessions. Based upon DOE, stakeholder and regulator input, the Contractor shall prepare a draft of the Soils Remedial Action Implementation Plan and Soils Remedial Design Plan for DOE review and approval.

10.3.1. The Contractor shall prepare 10 hard copies, a word version, and a “pdf” for posting on the DOE and DTSC websites and, if needed due to file size 25 electronic copies (CD’s) for distribution to DTSC, DOE, and stakeholders.

10.4. Upon incorporation of DOE comments, the Contractor shall prepare revised draft plans for DTSC review. After DTSC comments have been incorporated and upon DTSC concurrence to share with stakeholders, the Contractor shall produce 10 hard copies and 25 electronic copies for distribution.

10.4.1. At least two public meetings shall be held to discuss fully the contents of the plans and to receive public comment. The first public meeting shall be informational and the second a formal public meeting which may be co-sponsored by DTSC.

10.4.2. A response to public comments shall be prepared by the Contractor and all comments incorporated.

10.4.3. The Contractor shall prepare the Final Draft Soils Remedial Action Implementation Plan for DTSC approval.

10.4.3.1. The Contractor shall prepare 10 hard copies, a word version, and a “pdf” for posting on the DOE and DTSC websites and, if needed due to file size 25 electronic copies (CD’s) for distribution to DTSC, DOE, and stakeholders.

11. SCHEDULE

11.1. The Contractor shall develop a detailed schedule, based upon the following milestones within 30 days of the notice to proceed (NTP) under this task order. The schedule shall be submitted to the Government for approval. Elapsed days shall be measured in calendar days from date of the NTP. At a minimum, specific milestones shall include:

- Notice to Proceed
- Remaining Soil Sampling
- Response to Public Scoping Comments
- Building Sampling Plan
- Draft Description of Proposed Action and Alternatives
- Description of Proposed Action and Alternatives
- Preliminary Draft EIS (Submittal No 1)
- PDEIS Progress Review Meeting
- Preliminary Draft EIS (Submittal No 2)
- Draft Notice of Availability for Draft EIS
- Electronic Copy of Draft EIS
- File Draft EIS
- Public Meeting(s) for Draft EIS
- Draft Responses to Comments on Draft EIS
- Progress Review Meeting to Finalize Responses to the DEIS
- Preliminary Final EIS
- Draft Notice of Availability for Final EIS
- Electronic Copy of Final EIS
- File Final EIS
- Response to FEIS Comments
- Draft ROD
- EIS Administrative Record
- Soils Remedial Action Plan
- Soil Remedial Design Plan

11.2. Should implementation of a subsequent phase be delayed, or document review times by the Government take longer than expected, the entire schedule of events may be shifted or extended. The Contractor shall be advised as soon as possible upon any delay or change in review time.

11.3. The submission of the EIS Administrative Record (Section J – Attachment B Deliverable #8) shall be no later than 30 days after DOE approval of the ROD. Submission of the final monthly progress report and final task order administrative actions (i.e. final invoice, etc.) shall take place 45 days after project completion.

12. GROUNDWATER

12.1. As described in the August 2007 Consent Order with the State of California, the Contractor shall provide groundwater support activities in compliance with applicable DOE Orders and all other applicable federal, state and local regulations and requirements, including the RCRA corrective action process with the lead agency.

12.2. The contractor shall meet monthly internally with DOE and DTSC to discuss groundwater baseline data requirements and cleanup strategies for Area IV. The internal monthly meetings with DOE and external with DTSC will continue to occur throughout the remaining period of this agreement.

- 12.3.** The contractor shall meet monthly with DOE, Boeing, NASA, DTSC and potentially with the Groundwater Expert Panel to discuss/review site wide groundwater characterization needs, interpretation, and coordinator for groundwater work. The monthly groundwater meetings with DOE, Boeing, NASA, and groundwater experts shall continue to occur throughout the remaining period of this agreement.
- 12.4.** Based upon review of the existing data, discussions with DOE and DTSC, the contractor shall develop technical memoranda addressing groundwater characterization status and recommended Groundwater Data Gap strategies for both chemicals and radionuclides.
- 12.4.1.** The contractor shall prepare a draft for discussions with DOE of recommendations for additional groundwater well sampling based upon review of existing groundwater monitoring history and results. DOE comments will be incorporated and then shared in draft form with DTSC.
- 12.5.** The contractor shall develop Groundwater Data Gap work plans for:
- 12.5.1** Conducting groundwater interim measures for the Former Sodium Disposal Facility (FSDF) TCE plume;
- 12.5.2** Completing characterization of the tritium plume;
- 12.5.3** Characterizing groundwater in Area IV in terms of fate and transport, faults and their potential impact, if any; and
- 12.5.4** Fulfillment of data needs to describe Area IV groundwater appropriate in the mountain scale models
- 12.5.5** The contractor will review groundwater program, and develop any data gaps for DOE from the existing well monitoring network, and all previous groundwater sampling data. The contractor will develop a work plan that describes the technical basis for any installation of up to 10 additional groundwater monitoring wells in the Area IV within DOE's responsibilities to improve the adequacy of the groundwater network.
- 12.5.6** Upon DOE approval the contractor will install up to 10 additional monitoring wells as described in the work plan.
- 12.5.7** The Contractor will prepare a report that describes the well monitoring installation effort, documenting and describing the installation completion, and specific technical information about each well, such as the depth, screening levels and expected Data Quality Objective of each well.
- 12.6.** Groundwater Sampling. Groundwater shall be characterized as agreed upon with DOE and DTSC and as identified in the Gap Analysis. The quantity of samples will be based on data from the Gap Analysis and

actual field observations. The lab used by the contractor is required to be an EPA approved lab and certified by the State of California. This task shall be used to support others, including North Wind Portage and the University of Guelph in completing groundwater characterization work within Area IV.

Contractor shall prepare a work plan addressing the data collection effort needed to provide the baseline that supports the present and future demonstration that natural attenuation of volatile organic compound contaminants is occurring in groundwater within Area IV of SSFL. Contractor shall implement the work plan through the collection and analysis of groundwater samples for the presence of chemicals and elements indicative of dechlorination of TCE. Samples will be collected from representative wells impacted by TCE and other solvents. Results shall be provided in a brief technical memorandum.

12.7. Groundwater Results Technical Memorandums:

12.7.1 The contractor shall prepare draft and final technical memorandum presenting groundwater characterization results. This task shall be used to prepare Annual Groundwater Reports (two) and quarterly data reports for groundwater samples collected by North Wind Portage.

12.7.2 The Contractor shall prepare 10 hard copies, a word version, and a "pdf" for posting on the DOE and DTSC websites and, if needed due to file size 25 electronic copies (CD's) for distribution to DTSC, DOE, and stakeholders

12.8. Groundwater Interim Measure for the Former Sodium Disposal Facility (FSDF) TCE plume

12.8.1. The Contractor shall complete the design of an automated groundwater extraction system for the FSDF TCE plume as described in the conceptual work plan completed and approved by DOE and DTSC (PWS element 12.5.1).

12.8.2. The Contractor shall procure and install the treatment system designed under element 12.8.1.

12.8.3. The Contractor shall be responsible for obtaining all required state and local permits for the installation, treatment, and discharge for the treatment system.

12.8.4. The Contractor shall conduct aquifer tests defining aquifer properties that will identify pumping and reinjection rates.

12.8.5. The Contractor shall measure and sample monitoring wells in the vicinity of the FSDF GWIM action to provide baseline and initial operations data.

12.8.6. The Contractor shall be responsible for initial system commissioning (start-up and shake-down) and initial operation.

This includes sampling of the treatment processes, the aquifer being pumped, and taking water level measurements. Operation of the treatment system will be turned over to other site-support Contractors working for DOE.

- 12.8.7.** The Contractor shall prepare an operations and maintenance manual including as-built design drawings, to document the in place treatment system and operational and maintenance requirements.
- 12.8.8.** The Contractor shall prepare a technical report of the data from the treatment system evaluating system operation. Samples will be collected by the DOE site-support Contractors (or others) operating the treatment system. The report shall contain analytical results of system effluent and an analysis of the treatment system performance. The Contractor shall prepare a draft report for DOE review. Upon acceptance the report shall be provided to DTSC and the community.
 - 12.8.8.1.** The Contractor shall prepare 10 hard copies of the report, a word version, and a “pdf” for posting on the DOE and DTSC websites and, if needed due to file size 10 electronic copies (CD’s) for distribution to DTSC, DOE, and stakeholders.

12.9. Groundwater RFI Program

- 12.9.1** Groundwater RFI Field Sampling and Analysis Plan. The Contractor shall prepare a Groundwater RFI FSAP that addresses data collection activities identified as part of the Data Gap Analysis and Work Plan in element 12.5.3. The Groundwater RFI FSAP shall be based on the DTSC approved procedures for groundwater investigation at SSFL. The Groundwater RFI FSAP shall address sampling protocols, standard operating procedures, and quality control steps for bedrock characterization, sample collection, and aquifer testing. Analytical requirements and sample management shall be addressed. Contractor shall amend the RFI Field Sampling and Analysis Plan to include the conduct of a groundwater treatability study of the Hazardous Materials Storage Area TCE plume.
 - 12.9.1.1** The Contractor shall prepare 5 hard copies of the report, a word version, and a “pdf” for posting on the DOE and DTSC websites and, if needed due to file size 5 electronic copies (CD’s) for distribution to DTSC, DOE, and stakeholders.
- 12.9.2** Implement Groundwater RFI FSAP. The Contractor shall implement the Groundwater RFI FSAP collecting data as outlined in the plan. Contractor shall procure supplies and services necessary to complete the field work. Investigative derived waste management shall be coordinated with North Wind

Portage. This work shall include:

- 12.9.2.1** Removal FLUTE well systems for wells in which FLUTE systems have failed
 - 12.9.2.2** Geophysical logging of well borings for wells lacking prior logging.
 - 12.9.2.3** Video logging of selected wells to determine physical changes in crack distribution since well installation.
 - 12.9.2.4** Packer testing and sampling of selected wells to determine zones of transmissivity and contamination.
 - 12.9.2.5** Contractor shall implement the Hazardous Materials Storage Area groundwater treatability study through installation of near surface and bedrock injection and sampling wells. Biological and/or chemical agents shall be injected into the groundwater. The resulting distribution of the injected chemicals and resulting effects on TCE concentrations and daughter products shall be sampled and analyzed.
- 12.9.3** Area IV Groundwater Model Update. The Subcontractor shall procure the services of Dr. Bill Arnold and Baylor University modelers in the update of the SSFL Fate and Transport and Particle Tracking Model to address Area IV specific issues. The groundwater model update shall be based on considerations in the Groundwater RFI Work Plan identified in element 12.5.3.
- 12.9.4** Groundwater RFI Report. The Subcontractor shall prepare the Groundwater RFI Report for Area IV. The Groundwater RFI Report shall provide the totality of information collected on groundwater in Area IV. It shall be partially based on the information reviewed in preparing the Groundwater RFI Work Plan (element 2.5.9) as supplemented through collection of data under element 2.10.2. The Groundwater RFI Report shall include the updates of the groundwater model for Area IV
- 12.9.4.1** In addition to providing the DOE section of the Remedial Investigation (RI) for groundwater, the contractor will support the overall effort of developing a final complete RI. All three parties (DOE, NASA, and Boeing) will have one contractor write the summary and compile the final RI report.
 - 12.9.4.2** The Contractor shall prepare 5 hard copies of the report, a word version, and a "pdf" for posting on the DOE and DTSC websites and, if needed due to file size 5 electronic copies (CD's) for distribution to DTSC, DOE, and stakeholders.

12.9.4.3 The Contractor shall prepare an addendum to the Groundwater RFI that describes findings of the Hazardous Materials Storage Area groundwater treatability study.

12.9.5 Groundwater Corrective Measures Study. Contractor shall prepare the Groundwater Corrective Measures Study report for Area IV. The CMS shall address groundwater issues stemming from the Groundwater RFI Report, assess potential groundwater remedial actions, and present recommendations for those actions based on the issues.

12.9.5.1 The Contractor shall prepare 5 hard copies of the report, a word version, and a "pdf" for posting on the DOE and DTSC websites and, if needed due to file size 5 electronic copies (CD's) for distribution to DTSC, DOE, and stakeholders.

12.9.6 Groundwater Corrective Measures Implementation Plan (CMI). Based upon the information in the Corrective Measures Study, the Contractor shall prepare a Corrective Measures Implementation Plan. The CMI shall describe the specifics relating to implementation of the groundwater. The Contractor shall prepare a draft for DOE comment and review, incorporate DOE comments and produce a final draft for distribution to DTSC. Upon receipt of comments from DTSC, the Contractor, at DOE's direction will incorporate comments and produce a final Draft.

12.9.6.1 The Contractor shall prepare 5 hard copies of the report, a word version, and a "pdf" for posting on the DOE and DTSC websites and, if needed, due to file size 5 electronic copies (CD's) for distribution to DTSC, DOE, and stakeholders.

12.10 Bedrock Thermal Treatability Study

The Contractor shall prepare a technical memorandum that presents a review of existing treatability study results for thermal treatment of bedrock containing volatile solvents. This memorandum shall be prepared in partial fulfillment of DTSC requirements to evaluate thermal treatment of bedrock at SSFL. Results and recommendations from the information review shall be incorporated into the CMS report described in element 12.9.5.

12.11 Investigation of Per- and Polyfluorinated Substances (PFAS)

As requested in DTSC's March 27, 2020 letter to DOE, NASA and Boeing, DOE initiated an evaluation of the potential use of per- and polyfluoroalkyl substances (PFAS) during former DOE operations in

Area IV. As directed by DOE, the Contractor shall document common uses of PFAS in industry and at other DOE facilities. A detailed review of DOE Area IV historical documents shall be performed using PFAS-related search terms to identify if Area IV operations may have included the use, storage or release of PFAS. The Contractor shall develop reports and technical memoranda to document the findings.

Based on the findings of the document review, the Contractor shall prepare a work plan to conduct groundwater sampling at up to 15 existing monitoring wells to evaluate if PFAS are present in groundwater at Area IV. The work plan shall include QA/QC procedures to minimize the potential for cross-contamination of PFAS, as well as the collection QC samples (e.g., duplicate samples, equipment rinsate blanks). Groundwater sampling will be conducted in accordance with an approved work plan, and the results shall be documented in a report.

13. BIOLOGICAL RESOURCES

- 13.1.** The contractor shall attend meetings with regulatory agencies (US Fish and Wildlife, California Department of Fish and Game, DTSC) to ensure continuation of established Area IV biological requirements.
- 13.2.** The contractor shall conduct quarterly site monitoring activities relative to sensitive plant and wildlife species for Area IV.
- 13.3.** The contractor shall prepare quarterly plant and wildlife technical memoranda reporting observations in Area IV and the Northern Buffer Zone.
- 13.4.** Site-Wide Biological Assessment. The Contractor shall prepare a site-wide (all of SSFL) biological assessment describing the biological setting of the site incorporating survey findings from studies conducted by DOE, EPA, Boeing, and NASA. This assessment will be used to support compliance with the Endangered Species Act for the SSFL facility as requested by the USFWS. The USFWS will use the Biological Assessment as one part of its Biological Opinion to be developed for the SSFL. The Site-wide Biological Assessment will also address California Endangered Species Act requirements.
 - 13.4.1.** The Contractor shall prepare the Biological Assessment in accordance with USFWS guidance and include the following:
 - 1.** Project description;
 - 2.** Project area description;
 - 3.** Physical and biological attributes of the action area;
 - 4.** Identification of listed or proposed species that may be present:
 - For each species that may be present, describe the current habitat conditions within the action area;

- Describe how the action may affect each protected resource;
- and, a Section 7 finding conclusion statement.

13.4.2. The Contractor shall prepare the Biological Assessment that documents the observations and findings of the site-wide biological review. The Contractor shall prepare a draft report for DOE review. Upon acceptance the report shall be provided to the USFWS, DTSC, and the community.

13.4.2.1. The Contractor shall prepare 10 hard copies of the Biological Assessment, a word version, and a “pdf” for posting on the DOE and DTSC websites and, if needed due to file size 10 electronic copies (CD’s) for distribution to DTSC, DOE, and stakeholders.

13.5. Seed Collection and Preservation. The Contractor shall perform the collection of seeds for restoration of native species as directed by DOE in consultation with USFWS. The seed collection and preservation activity supports conservation measure 9, Develop a Revegetation and Habitat Restoration Plan (RHRP), outlined in the August 31, 2018 USFWS Biological Opinion (BO) for Cleanup of Area IV of the SSFL. This activity includes collecting seeds and a voucher specimen of the endangered Braunton’s milk-vetch in support of the BO Conservation Measure 12. Collected seeds shall be transported to an approved facility for preservation and long-term storage and/or used in developing a seed mix for the RHRP. Seed collection activities shall be documented in technical memoranda.

14. CULTURAL RESOURCES

14.1. The contractor shall attend meetings with cultural resource stakeholders to discuss status of ongoing cultural resource surveys.

14.2. The contractor shall update the cultural resources protection strategy as needed.

14.3. The contractor shall assist DOE with interactions with the State Historic Preservation Office, as needed.

14.4. The Contractor shall procure an appropriately qualified archeologist to complete a subsurface cultural investigation in Area IV. Prior archaeological surface Phase 1 surveys have identified a number of potential archaeological resources that may be eligible for protection under the National Historic Preservation Act. The requirement for protection of the resources during any soil remediation action within Area IV or the Northern Buffer Zone needs to be determined to support DOE consultation with the State Historic Preservation Office.

14.4.1. The Contractor shall procure a registered archaeologist to perform subsurface investigations at identified archaeological

sites. All subsurface investigations must comply with accepted state and federal practices, including recording and preserving any artifacts encountered. Contractor shall record all findings per state requirements.

- 14.4.2.** The Contractor shall develop a Subsurface Investigation Study Plan outlining the procedures to be followed to assess eligibility of existing cultural resource areas within Area IV and the Northern Buffer Zone. As part of the study plan, it shall identify the process for handling and final disposition of any artifacts encountered.
 - 14.4.2.1.** The Contractor shall prepare 10 hard copies of the study plan, a word version, and a “pdf” for posting on the DOE and DTSC websites and, if needed due to file size 10 electronic copies (CD’s) for distribution to DTSC, DOE, and stakeholders.
- 14.4.3.** The Contractor shall procure the services of a Native American Monitor who will observe the intrusive investigations of the identified archaeological sites.
- 14.4.4.** The subcontractor’s archaeologist shall implement the study plan in accordance with accepted archaeological resource intrusive investigations. The subcontractor’s archaeologist shall record all observations on forms acceptable to the SHPO. Any artifacts encountered shall be managed in accordance with the study plan.
- 14.4.5.** The Contractor shall prepare a technical memorandum detailing the findings of the subsurface cultural investigation. The technical memorandum should include a description of the process and procedures used to conduct the investigation, map showing locations of findings and photographs required to document findings. The Contractor shall prepare a draft report for DOE review. Upon acceptance the report shall be provided to DTSC and the community. Copies prepared for DTSC and the community will have sensitive information and data redacted.
 - 14.4.5.1.** The Contractor shall prepare 10 hard copies of the technical memorandum, a word version, and a “pdf” for posting on the DOE and DTSC websites and, if needed due to file size 10 electronic copies (CD’s) for distribution to DTSC, DOE, and stakeholders.
 - 14.4.6.** The Contractor shall assist DOE to develop a Programmatic Agreement as required by Section 106 of the National Historic Preservation Act. The Contractor will develop and implement a strategy to involve, the State Historic Preservation Office, Native Americans, and other interested stakeholders in the development of the Programmatic Agreement.

- 14.4.7.** The Contractor will conduct meetings and interactions with the Consulting Parties to develop the Programmatic Agreement.
- 14.4.8.** The Contractor will develop the Programmatic Agreement, based upon consultations with all Consulting Parties. The Contractor will produce a draft Programmatic Agreement for DOE review and comment and produce a draft Final Programmatic Agreement for review by the Consulting Parties.
- 14.4.9.** The Contractor will assist with a public comment period on the Draft Final Programmatic Agreement. Upon receipt of public comment, the Contractor will incorporate public comment, as directed by DOE and produce a Final Programmatic Agreement.
- 14.4.10.** The contractor shall assist DOE ETEC in its continued consultation with Native American Groups regarding DOE's efforts to comply with the stipulations of the Programmatic Agreement (PA). The Native American groups include of the Santa Ynez Band of Chumash Indians (the federally recognized Native American entity) and the Native American affiliations that participated in PA development consultation. The contractor shall assist DOE in organizing and facilitating separate teleconferences during which (1) consulting party comments on the First Annual Report will be discussed, (2) DOE's groundwater cleanup plan will be presented, and (3) a meeting with the Chumash regarding DOE's longer term plans at Area IV will be discussed. The contractor shall also facilitate an on-site meeting of interested Native Americans allowing discussion of the landscape change following the building demolition.

15. CHARACTERIZATION OF BUILDING FOOTPRINTS

- 15.1.** The footprints of buildings that were not investigated by USEPA under its radiological program and have been recently demolished by Boeing require characterization for radiological contamination. USEPA used a large gamma radiation survey instrument called the Enhanced Radiation Ground Scanner (ERGS). The ERGS was constructed using DOE funding and was turned over to DOE following the USEPA investigations. The ERGS shall be used to survey locations not surveyed by USEPA. If above background readings are detected, determination of the radionuclide producing the reading will be necessary.
- 15.2.** The Contractor shall prepare an addendum to the Phase 3 Soil

ERGS and to obtain radiological samples for laboratory analysis. This includes procuring radiological analytical services. The Contractor may also be required to take opportunistic samples for chemical characterization based on field observations (i.e., staining). The Contractor shall research the capabilities of the laboratories in achieving the agreed upon requirements for the Interim Screening Levels and eventual Look-up Table reporting limits that are lower than those normally requested for analytical services.

- 15.6.3.** Sample Management. The Contractor shall set up a sample management and shipping facility in its office trailer at SSFL. The Contractor shall procure all supplies and materials necessary to manage samples in the field.
- 15.6.4.** Utility Clearances and Permits. The Contractor shall be responsible for obtaining the appropriate digging permits from the site and shall be responsible for coordinating all utility clearances with the property owner. The Contractor shall take all reasonable precautions to protect persons and property near the work site, and shall restore the site to its original state when the field work is complete.
- 15.6.5.** The Contractor shall implement the addendum to the MFSAP. The Contractor shall provide field personnel to handle the samples in accordance with the MFSAP addendum. The Contractor shall procure the services of a direct push drill technology, and shall be required to hand auger to most effectively obtain soil samples.
 - 15.6.5.1.** Drilling Equipment. Drill rig, drilling pipe (augers and pipe), work surfaces, and all other associated equipment shall be free of contamination before entering site. The drill rig, drilling pipe (augers and pipe), work surfaces, and vehicle wheels shall be steam-cleaned using a high temperature, high pressure steam cleaner before entering the work site. The drill rig and all associated equipment shall be decontaminated before leaving the site. Any other vehicle and/or equipment which come into contact with contaminated soils shall be decontaminated. All decontamination procedures shall follow the MFSAP. All liquids generated during decontamination procedures shall be collected and disposed of in accordance with Federal and State regulations.
- 15.6.6.** The Contractor shall label sample containers and fill the containers with soil material. The Contractor shall complete sample labels, record sampling information in a field log book per the FSAP, complete the chain of custody form, shipping documentation, and prepare samples for shipment to the analytical laboratories. The Contractor shall follow-up with each

analytical laboratory sample shipment receipt to ensure samples were received properly.

15.6.7. Site Investigation Data Review

15.6.7.1. The Contractor shall review the analytical reports received from the laboratory for documentation that demonstrates completeness and adherence to sample handling, preparation, analysis, and quality control protocols. Contractor shall document this data completeness review in the Sampling and Analysis Report.

15.6.7.2. The Contractor shall subject the radiological and chemical analytical data to an EPA Level 4 data validation review. A separate data validation report shall be prepared for each sample delivery group. The data validation efforts shall be summarized in the body of the Sampling and Analysis Report with the actual validation reports appended to the document.

15.7. Following the data review and validation, the field screening and analytical results shall be incorporated into the overall SSFL sampling data base. The Contractor shall continue to implement the Standard Operating Procedures to ensure data correctness and integrity.

15.8. The DTSC, coordinating with DOE, may collect split samples for radiological analysis. Using a State-certified and EPA approved laboratory, the sampling activities shall be in conformance with State and EPA, Region IX Field and Sampling Protocols. The Contractor shall be responsible for obtaining and submitting blanks and spikes. The Contractor shall ensure that split samples shall not exceed holding times, established by the State or EPA, and shall ensure that there will not be any weekend deliveries to the laboratory. State and/or EPA may overview the Contractor in the field.

15.9. Sampling and Analysis Report Building Footprint Characterization

15.9.1. The Contractor shall prepare a results technical memorandum that documents the field and laboratory radiological results. This report shall describe the sampling episode, the area investigated, investigation methods, analytical suites, variations from the MFSAP (reasons and potential impacts to the data), provide analytical results tables, and study area maps showing locations of samples with results that exceed action levels (background and risk- based screening levels). The Contractor shall prepare a draft report for DOE review. Upon acceptance the report shall be provided to DTSC and the community.

15.9.1.1. The Contractor shall prepare 10 hard copies of the results technical memorandum, a word version, and a

“pdf” for posting on the DOE and DTSC websites and, if needed due to file size 10 electronic copies (CD’s) for distribution to DTSC, DOE, and stakeholders.

- 15.9.2.** A Radiological and Chemical Data Summary Report will be completed as described in PWS element 4.8.2. Using the accepted EPA radionuclide trigger levels developed by EPA Region IX for Area IV of SSFL, the Contractor shall determine the types of radionuclides and their presence within Area IV (see new PWS Element 16). The Contractor shall evaluate the data for completeness in identifying nature and extent within Area IV. The PWS element 4.8.2 Report shall address where chemicals and radionuclides overlap and where radionuclides are the only contaminant of interest.

16. EPA RADIOLOGICAL STUDY EVALUATION

- 16.1.** The Contractor shall assess the radiological soil characterization data provided by EPA. The Contractor shall provide data interpretation, comparison to screening values (Trigger Levels), and determine if any data gaps exist in the current radiological characterization.

- 16.2.** The Contractor shall prepare a technical memorandum providing data interpretation of the previously completed EPA radiological characterization work. The memorandum shall include maps of currently known radiological findings and compare these levels to screening values. The Contractor shall also provide an assessment of potential data gaps in the current soil radiological characterization data and make recommendations for filling the data gaps. The Contractor shall prepare a draft report for DOE review. Upon acceptance, the report shall be provided to DTSC and the community.

- 16.2.1.** The Contractor shall prepare 10 hard copies of the results technical memorandum, a word version, and a “pdf” for posting on the DOE and DTSC websites and, if needed due to file size 10 electronic copies (CD’s) for distribution to DTSC, DOE, and stakeholders.

- 16.3.** If additional soil or concrete radiological characterization is determined to be required, the Contractor shall prepare an addendum to the Master Field Sampling Plan as required for radiological sampling to complete identified data gaps. The addendum shall identify sampling locations, and proposed field screening requirements, and proposed laboratory analysis. The Contractor shall prepare a working draft of the addendum for review by DOE, DTSC, EPA, and the community.

- 16.3.1** The Contractor shall prepare 10 hard copies, and MS word version, and a “pdf” version for posting on the DOE and DTSC websites, and if needed due to file size 10 electronic copies

(CD's) for distribution to DTSC, DOE, and stakeholders.

16.4. The Contractor shall work interactively with DOE and DTSC to ensure that all requirements for the sampling as described in Section 2.5.3.3 of the 2010 AOC are met and reflect the results of the characterization activities.

16.5. The Contractor shall prepare for and host a meeting with the community presenting the radiological data gap addenda. The meeting shall be about 3 hours in length and held at or near the site. The Contractor shall prepare the meeting presentation, hand out materials, and host and facilitate the meeting.

16.6. *Field Work*

16.8.1 SSFL Site Procedures and Access. The Contractor shall work closely with DOE with respect to access to the SSFL and shall continue the access agreement requirements as signed between Boeing and the Contractor. The Contractor shall also ensure that all Contractor staff are trained and work in compliance with the Boeing SSFL requirements for doing work at SSFL.

16.8.2 Radiological Data Gap Characterization. The Contractor shall take all steps necessary to complete the radiological survey using field screening instruments and to obtain radiological samples for laboratory analysis. This includes procuring radiological analytical services. The Contractor shall research the capabilities of the laboratories in achieving the agreed upon requirements for the Interim Screening Levels and eventual Look-up Table reporting limits that are lower than those normally requested for analytical services.

16.8.3 Sample Management. The Contractor shall set up a sample management and shipping facility in its office trailer at SSFL. The Contractor shall procure all supplies and materials necessary to manage samples in the field.

16.8.4 Utility Clearances and Permits. The Contractor shall be responsible for obtaining the appropriate digging permits from the site and shall be responsible for coordinating all utility clearances with the property owner. The Contractor shall take all reasonable precautions to protect persons and property near the work site, and shall restore the site to its original state when the field work is complete.

16.8.5 The Contractor shall implement the addendum to the MFSAPs. The Contractor shall provide field personnel to handle the

samples in accordance with the MFSAP. The Contractor shall procure the services of a direct push drill technology, and shall be required to hand auger to most effectively obtain soil samples.

16.8.5 .1 Drilling Equipment. Drill rig, drilling pipe (augers and pipe), work surfaces, and all other associated equipment shall be free of contamination before entering site. The drill rig, drilling pipe (augers and pipe), work surfaces, and vehicle wheels shall be steam-cleaned using a high temperature, high pressure steam cleaner before entering the work site. The drill rig and all associated equipment shall be decontaminated before leaving the site. Any other vehicle and/or equipment which come into contact with contaminated soils shall be decontaminated. All decontamination procedures shall follow the MFSAP. All liquids generated during decontamination procedures shall be collected and disposed of in accordance with Federal and State regulations.

16.8.6 The Contractor shall label sample containers and fill the containers with soil material. The Contractor shall complete sample labels, record sampling information in a field log book per the FSAP, complete the chain of custody form, shipping documentation, and prepare samples for shipment to the analytical laboratories. The Contractor shall follow-up with each analytical laboratory sample shipment receipt to ensure samples were received properly.

16.8.7 Site Investigation Data Review

16.8.7 .1The Contractor shall review the analytical reports received from the laboratory for documentation that demonstrates completeness and adherence to sample handling, preparation, analysis, and quality control protocols. Contractor shall document this data completeness review in the Sampling and Analysis Report.

16.8.7 .2 The Contractor shall subject the radiological data to an EPA Level 4 data validation review. A separate data validation report shall be prepared for each sample delivery group. The data validation efforts shall be summarized in the body of the Sampling and Analysis Report with the actual validation reports appended to the document.

16.7. Following the data review and validation, the field screening and

analytical results shall be incorporated into the overall SSFL sampling data base. The Contractor shall continue to implement the Standard Operating Procedures to ensure data correctness and integrity.

16.8. The DTSC, coordinating with DOE, may collect split samples for radiological analysis. Using a State-certified and EPA approved laboratory, the sampling activities shall be in conformance with State and EPA, Region IX Field and Sampling Protocols. The Contractor shall be responsible for obtaining and submitting blanks and spikes. The Contractor shall ensure that split samples shall not exceed holding times, established by the State or EPA, and shall ensure that there will not be any weekend deliveries to the laboratory. State and/or EPA may overview the Contractor in the field.

16.9. Sampling and Analysis Report Radiological Data Gap Survey

16.9.1The Contractor shall prepare a results technical memorandum that documents the field and laboratory radiological results. This report shall describe the sampling episode, the area investigated, investigation methods, analytical suites, variations from the MFSAP (reasons and potential impacts to the data), provide analytical results tables, and study area maps showing locations of samples with results that exceed action levels (background and risk- based screening levels). The Contractor shall prepare a draft report for DOE review. Upon acceptance the report shall be provided to DTSC and the community.

16.9.1.1The Contractor shall prepare 10 hard copies of the results technical memorandum, a word version, and a "pdf" for posting on the DOE and DTSC websites and, if needed due to file size 10 electronic copies (CD's) for distribution to DTSC, DOE, and stakeholders.

16.10. A Radiological and Chemical Data Summary Report incorporating the data collected under this PWS will be completed as described in PWS element 4.8.2.

17. COST BENEFIT (FEASIBILITY STUDY)

17.1. The Contractor shall prepare a CERCLA-based feasibility study (FS) per EPA/540/G-89/004 OSWER Directive 9355.3-01 (October 1988) evaluating two alternatives against the nine CERCLA FS screening criteria: Overall protection of human health and the environment; Compliance with ARARs; Long-term effectiveness and permanence; Reduction of toxicity, mobility, or volume; Short-term effectiveness; Implementability; Cost; State acceptance; and Community acceptance.

17.2. The Contractor shall evaluate two potential soil remediation scenarios:
(1) Remediation in accordance with requirements of the 2010

Administrative Order on Consent requiring remediation to background levels (i.e., the soil Look-up Table Values issued by DTSC in January 2013), and (2) Remediation in accordance with risk based concentration levels (i.e., the risk-based screening levels [RBSLs] established for SSFL by Boeing and agreed to by DTSC).

- 17.3.** The Contractor shall prepare a feasibility study that includes cost and volume estimates, and evaluations of the 9 CERCLA FS screening criteria. The FS will focus on the implementability of both alternatives and the protectiveness to human health and the environment achieved by each. The Contractor shall prepare a draft report for DOE review. Upon acceptance the report shall be provided to DTSC and the community.

17.3.1. The Contractor shall prepare 10 hard copies of the feasibility study, a word version, and a "pdf" for posting on the DOE and DTSC websites and, if needed due to file size 10 electronic copies (CD's) for distribution to DTSC, DOE, and stakeholders.

18. GREEN AND SUSTAINABLE REMEDIATION AND INNOVATIVE TECHNOLOGY

- 18.1.** It is the Department of Energy (DOE) Office of Environmental Management's (EM) goal to consider, to the extent practical, Green and Sustainable Remediation (GSR) and Innovative Technology practices in all phases of this Project Work Scope (PWS) and to implement such practices when they reduce costs, expedite project schedules, minimize risk, and maximize effectiveness. Please note that GSR and Innovative Technology practices should be evaluated for the phases of the PWS, and beyond, consistent with reducing activity impacts on future generations, resources, and the environment.
- Green remediation is the practice of considering the environmental effects of remedy implementation and incorporating options to minimize the detrimental footprint of cleanup technologies and actions.
 - Sustainability is the holistic consideration of environmental, social, and economic impacts of an activity and evaluation of these impacts on future generations.
 - Innovative technology refers to new and inventive methods, processes, or evaluation software used to improve the efficiency and effectiveness of characterization, treatment, monitoring, and disposal of hazardous and radioactive contamination and waste. Innovative Technology also includes emerging techniques to prevent and reduce pollution, as well as conserve energy as part of restoration and closure work performed.
- 18.2.** Statutory requirements (e.g., Comprehensive Environmental Response, Compensation, and Liability Act; and Resource Conservation and Recovery Act evaluation criteria) for this PWS take

precedence over the GSR/Innovative Technology initiative. However, they are generally consistent with the intent of the statutory requirements and should be evaluated as additional and equivalent criteria for remedy selection.

- 18.3.** All work performed under this contract shall be consistent with the following Executive and DOE Orders, Plans, and Federal or industry guidance/standards:
- Executive Order 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*
 - Executive Order 13514, *Federal Leadership in Environmental, Energy, and Economic Performance*
 - DOE Order 436.1, Departmental Sustainability
 - DOE 2012 Strategic Sustainability Performance Plan (SSPP)
http://www.eere.energy.gov/sustainability/pdfs/doespp_2012.pdf
- 18.4.** The Federal and/or industry guidance/standards listed below provide additional useful information:
- ASTM International Standard Guides: Green (WK35161) and Sustainable (WK23495) Site Assessment and Cleanup (two drafts, in preparation for release June 2013) <http://www.astm.org/>
 - Interstate Technology & Regulatory Council, Green and Sustainable Remediation: State of the Science and Practice (GSR-1, 2011)
<http://www.itrcweb.org/Guidance>
 - Interstate Technology & Regulatory Council, Green and Sustainable Remediation: A Practical Framework (GSR-2, 2011)
<http://www.itrcweb.org/Guidance>
 - Environmental Protection Agency (EPA) Green Remediation Primer (2008) and other EPA GSR guidance issued prior to contract use <http://clu.in.org/greenremediation>
- 18.5.** The contractor shall utilize the following GSR/Innovative Technology assessment practices on this PWS including, but not limited to:
- The EPA Triad approach to project planning, work strategies, sampling and analytical technologies. <http://www.triadcentral.org>
 - The US Army Corps of Engineers (USACE)/Navy SiteWise™ Tool, latest version, during the Feasibility Study (FS) to quantify the environmental footprints of remedial, monitoring, and waste management alternatives, and possibly, during the Remedial Investigation (RI) planning stages to assess the footprint of different investigation technologies.
<https://portal.navfac.navy.mil/pottal/page/pmtal/navfac/navfac>

pp/navfac nfesc pp/environmental/erb/gsr/gsr-t2tool

- Completion of Best Management Practice (BMP) checklists developed in the USACE 2012 Detailed Approach for Evaluating GSR and Process Optimization Reviews on Army Environmental Projects.
http://www.environmental.usace.army.mil/pdf/IG%2010-01%2003_05_10%20doc.pdf

18.6. The contractor shall utilize GSR practices to maximize sustainability, including but not limited to:

- reduce the environmental footprint of project activities.
- reduce waste generation, disposal, and landfill space
- reduce energy and water usage
- increase energy efficiency and minimize the use of non-renewable energy
- conserve and efficiently manage resources and materials
- promote carbon neutrality
- reduce direct and indirect greenhouse gas and other emissions
- promote reuse and recycling
- foster green and healthy communities and working landscapes, which balance ecological, economic, and social goals
- integrate the remedy with the end use
- encourage green and sustainable re-development
- maximize habitat value and create habitat
- protect and preserve land resources
- minimize, eliminate, or contain pollution at its source

18.7. As part of the project planning and alternative analyses efforts, the contractor shall select an appropriate GSR/Innovative Technology practice to utilize to conduct the work scope. The contractor is to develop, plan, and implement GSR/Innovative Technology approaches, including examples of technologies listed as follows, but not limited to:

- Passive/no-flow sampling techniques
- Direct-push drilling
- Use of clean diesel or biofuels
- Remote data collection, multi-increment sampling
- Carbon offsets
- Renewable energy
- Field screening
- Mobile laboratories
- Waste minimization
- GSRBMPs
- Innovative approaches to public involvement

- 18.8.** The contractor shall develop and submit a life-cycle cost/benefit analysis demonstrating the pros and cons of each alternative analyzed and recommended for the project, including GSR/Innovative Technology practices. The contractor is encouraged to reference and quote, where possible, industry BMPs where costs and benefits are already known and published for expediency. The analysis should include the net cost or net savings to the project/program by implementing that particular element. The Government will review the analysis and make the final determination on whether to proceed with implementation of the GSR/Innovative Technology practice or technology.
- 18.9.** During all phases of the project/program, the contractor shall consider and implement GSR/ Innovative Technology practices to achieve an overall sustainable remedy selection to:
- reduce costs
 - expedite project schedules
 - minimize risk
 - maximize effectiveness
- 18.10.** All work plans and reports generated by the contractor in performance of task orders of this PWS contract shall document for the relevant scope of work:
- the GSR/Innovative Technology that was considered
 - the GSR/Innovative Technology that was implemented
 - the reasons that considered GSR/Innovative Technology was, or was not, implemented (for example, the results of the cost benefit analysis)
- 18.11.** Whether the contractor is proactive or negligent in proposing GSR/Innovative Technology will be factored into the contractor's performance ratings and evaluations.

19. DELIVERABLES

19.1. Deliverables shall be submitted in accordance with Section J, Attachment B.

19.2. Document Focus

19.2.1. The Contractor shall document the affected baseline and conduct appropriate impact analyses in such a manner as to:

- Sharply focus the document on relevant issues. Do not include repetitious statements.

- Extraneous data shall not be included in the document.
- Clearly support the analysis with baseline data. Conclusionary statements in the consequences section without basis in the affected environment section are unacceptable.
- Fully describe the proposed action and alternatives sufficient for a NEPA analysis.
- Follow all prescribed NEPA procedures, in compliance with laws, regulations and published policies.

20. APPLICABLE DOCUMENTS

- 20.1.** NEPA is the basic national charter for the protection of the environment. It establishes policy, sets goals, and specifies the process for carrying out the policy. In part, NEPA states that all Federal agencies shall "utilize a systematic, interdisciplinary approach which will insure the integrated use of the natural and social sciences and the environmental design arts in planning and in decision making which may have an impact on man's environment." NEPA, at section 102(2)(C), requires Federal agencies to include in every recommendation or report on proposals for legislation and other major Federal actions significantly affecting the quality of the human environment, a detailed statement known as an EIS on: "(i) The environmental impact of the proposed action, (ii) Any adverse environmental effects which cannot be avoided should the proposal be implemented, (iii) Alternatives to the proposed action, (iv) The relationship between local short-term uses of man's environment and the maintenance and enhancement of long-term productivity, and (v) Any irreversible and irretrievable commitments of resources which would be involved in the proposed action should it be implemented."
- 20.2.** The Council on Environmental Quality's (CEQ's) NEPA implementing regulations, at 40 CFR §§1500-1508, are binding on all Federal agencies, and establish the minimum general requirements that assure NEPA compliance. These CEQ regulations establish a multistage process that describes how the agency is to analyze and describe to the public and the decision maker any significant environmental impacts that could result from carrying out a proposed action.
- 20.3.** DOE has adopted additional binding agency-specific NEPA regulations that describe in greater detail how the agency will implement the requirements in the CEQ regulations. DOE's implementing regulations are published at 10 CFR § 1021.
- 20.4.** The Contractor shall adhere to the statutes, regulations, and guidance per Section J, Attachment A. If relevant, the DOE will provide the Contractor with applicable NEPA internal scoping procedures, public participation plan(s) and quality assurance plan(s), existing site policies and

procedures and other regulatory and guidance documents.

- 20.5. Advisory Council on Historic Preservation's regulations entitled, Protection of Historic Properties, found at 36 CFR Part 800
- 20.6. Section 7 of the Endangered Species Act
- 20.7. Executive Order 13112, Invasive Species (February 3, 1999),

21. LIST OF TABLES

Table 1
SSFL ETEC Analytical Laboratory Chemical Methods

As documented in the Data Gap Analysis, the contractor is to have the laboratory perform analytical analysis on any of the following chemicals using the described chemical methods.

Analysis	EPA Method (unless otherwise listed)
Volatile Organic Compounds	8260B
Metals	6010/6020B
Mercury	7471A
Chromium VI	7196A or 7199
Semivolatile Organic Compounds	8270C
Polycyclic Aromatic Hydrocarbons	8270 SIM
Perchlorate	8321/331.0/6850/6860
Perchlorate	314.0
Polychlorinated Biphenyls	8082
Fluoride	300.0/9056A
Dioxin/Furans	1613B
Total Petroleum Hydrocarbons (gas/oil/diesel)	8015B

Analysis	EPA Method (unless otherwise listed)
1,4-Dioxane	8260B SIM
Total Organic Carbon	9060
Total Organic Carbon	Walkley-Black
Formaldehyde	8315A
Hydrazine	8315A
n-Nitrosodimethylamine	1625C
Energetics	8330A
Anions (other than fluoride)	300.0/9056A
Cyanide	9012B
pH	9045C
Ammonia as nitrogen	350.3
Total Kjeldahl Nitrogen	SM4500-NORG,C
Alcohols	8015B
Terphenyls	8015B

Glycols	8015B
Total Solids	160.3
Methyl Mercury	1630
Organic Tin	NOAA Status and Trends
Asbestos	600/R-93/116
Pesticides	8081A
Herbicides	8151