

STANDBY CONTRACT WORK ASSIGNMENT  
FOR STATE SUPERFUND

Site Name & Number: Former Bouchard Junkyard, Site #411014  
NYSDEC Project Manager: Larry Alden

**Summary of Site History and Background Information**

The Former Bouchard Junkyard site is the location of a former automobile junkyard operated from before 1959 through February 1969 by Henri Bouchard. Edward Weisberg purchased the property from the widow of Mr. Bouchard in February 1969, and continued its use as a junkyard. The junkyard was ordered closed in 1971 for operating without a licence. All salvage was removed from the site in the late 1970s.

In July 1998, General Electric (GE) provided NYSDEC with an internal memorandum dated October 10, 1980, suggesting that drums of oil and pyranol (polychlorinated biphenyls or PCBs) had either been disposed or burned at the site. The property was purchased by the current property owner, Ralph Chittenden, in 1985. Since the removal of the junk cars, a theater group, automobile repair shop, and engineering company were tenants in the three buildings on-site, however, prior to GE's notification, much of the property not occupied by buildings was utilized as farmland.

Historic aerial photographs indicate that the junk cars were placed in well-organized rows covering the majority of the site during the operation of the junkyard. The aerial photographs also suggest that the area at the east side of the site, behind the current Theater Barn building was filled some time before 1959. Apparent burn areas at the site can be observed in the aerial photographs. It has been reported that a metal fence was constructed in 1969 at the southern boundary of the junkyard on the north side of US Route 20. The automobile repair shop which operates at the site is located in the building that formerly served as the junkyard building. The buildings for the theater group and engineering company were constructed in 1989 and 1990, respectively. Some contaminated soil excavated during construction of these buildings was used as fill on a residential property just west of the former junkyard. This area of contamination is considered part of the site, even though it is on a different tax parcel.

In 2000, the NYSDEC listed the site as a Class 2 site in the Registry of Inactive Hazardous Waste Disposal Sites in New York.

In September 1998, after receiving GE's 1980 memo, the NYSDEC collected surface and subsurface soil samples from across the site and from the burn areas identified in the aerial photographs. Water samples from private water supply wells on or near the property were also collected. The sampling results showed widespread PCB contamination in the soil across the site. Following this sampling program, discussions ensued between NYSDEC and GE regarding continuing studies at the site, but the parties could not reach agreement and the site was referred for State Superfund action.

Under the State Superfund RI/FS, soil, groundwater, and sediment samples were collected to

characterize the nature and extent of contamination. The main categories of contaminants that exceed their SCGs are polychlorinated biphenyls (PCBs) and pesticides, semivolatile organic compounds, and inorganics. The PCB of concern is Aroclor 1260. PCBs at the site have essentially remained bound up in the upper soil layers.

In March 2004, a Record of Decision (ROD) was issued for the site which called for:

1. Samples of contaminated soil from the site will be collected for laboratory analysis to determine the soil and waste characteristics. Bench-scale tests will experiment with a number of different surfactants or combinations of surfactants to determine the best one to use to remove the contaminants present at the site. If it is determined that soil washing cannot adequately remove the PCBs from the soil, then thermal separation will be pursued as the remedial method. (In thermal separation, soil will be excavated and heated to drive off the contaminants. Hot gases will be collected and processed to remove the contaminants, and the clean soil will be backfilled on the site.)
2. A remedial design program will be implemented to provide the details necessary for the construction, operation, maintenance, and monitoring of the remedial program.
3. Equipment will be mobilized on the site. Excavate and stockpile up to 28,000 cubic yards of surface soil contaminated with PCBs greater than one part per million (from the surface to a depth of eighteen inches), 2,700 cubic yards of subsurface soil with PCBs greater than ten parts per million (depth greater than eighteen inches), and 3,800 cubic yards of aquatic sediments with PCBs greater than one part per million.
4. The stockpiled soil will be screened to remove larger cobbles and gravel. Since the PCBs in the soil are associated with the fine-grained fraction of the soil, this step will decrease the volume of soil which will need to be processed further.
5. The finer-grained soil fraction will be mixed with water and a surfactant to strip the PCBs from the soil. Treated soil will be tested and, if clean (below 1 ppm PCBs), used for backfill on the property. Cleaned soil will be separated from soil with PCB concentrations between 1 and 10 ppm by a demarcation layer. If concentrations of contaminants above cleanup goals remain, the soil will be re-washed as necessary or removed for off-site disposal.
6. The water/surfactant mix will be treated to remove some of the contaminants, and the treated water will be reused in the washing process. Ultimately, the water will be disposed in a hazardous waste disposal facility.
7. The operation of the components of the remedy will continue until the remedial objectives have been achieved, or until the NYSDEC determines that continued operation is technically impracticable or not feasible.
8. The site will be restored by grading, placement of topsoil (if necessary), and seeding of excavated and/or filled areas.

9. A site management plan will be developed to address residual contaminated soils that may be excavated from the site during future redevelopment. The plan will require soil characterization and, where applicable, disposal/reuse in accordance with NYSDEC regulations.
10. An environmental easement will be imposed, in such form as the NYSDEC may approve, that will require compliance with the approved site management plan. The property owner will complete and submit to the NYSDEC an annual certification until the NYSDEC notifies the property owner in writing that this certification is no longer needed. This submittal will contain certification that the institutional controls put in place, pursuant to the Record of Decision, are still in place, have not been altered, and are still effective.
11. Under a monitoring program, water samples from on-site monitoring wells, water supply wells, and surface water will be collected for laboratory analysis. This program will allow the effectiveness of the soil washing process or thermal separation/desorption to be monitored and will be a component of the operation, maintenance, and monitoring for the site.

### **Scope of Work and Task/Subtask Descriptions**

The Standby Consultant will prepare detailed plans and specifications to be used for competitively bidding the remedial construction. The plans and specifications will conform to New York State laws, rules, regulations and guidelines. Various supporting documents, described below, will also be prepared.

The tasks and requirements of this work assignment are specified in Schedule 1, Item D of the Standby Contract (Work Element III - Remedial Design). The following summary of tasks includes project-specific considerations and assignments.

#### **Task 1      Work Plan Development**

##### **Subtask 1.1    Background Review**

The Standby Consultant will review the following reports (available from the NYSDEC project manager) to gain a thorough understanding of site conditions and the components of the selected remedy.

1. Record of Decision prepared by the New York State Department of Environmental Conservation, dated March 2004;
2. Final Remedial Investigation Report, prepared by Dvirka & Bartilucci Consulting Engineers, dated August 2002;
3. Final Feasibility Study Report, prepared by Dvirka & Bartilucci Consulting Engineers, dated April 2003; and

4. other sources, as needed.

The Standby Consultant's project manager, design engineer, and other critical personnel will conduct a visit to the site and surrounding areas, accompanied by the NYSDEC project manager.

#### Subtask 1.2. Work Plan Preparation

After completing the background review and site visit, the Standby Consultant's project manager and design engineer will meet with NYSDEC representatives for a project scoping meeting to discuss the components of the work assignment and any necessary changes to it. Within 28 days after issuance of the work assignment, the Standby Consultant will prepare and submit three copies of a Remedial Design Work Plan which will include the following:

- 1) additional detail to this Scope of Work, where necessary, to support the Standby Consultant's Level of Effort (LOE) estimates in the project budget;
- 2) a work assignment budget and schedule for the completion of the work assignment.
- 3) a Pre-Design Investigation Work Plan that describes the field activities necessary for Subtask 2.1, consisting of a Field Sampling Plan, Quality Assurance Project Plan and Health and Safety Plan. The work plan should also describe the water sampling and analytical protocols necessary for Subtask 4.8 below.
- 4) a Staffing Plan, MBE/WBE Utilization Plan, proposed list of Subcontractors, and a deliverables list with due dates.

### **Task 2**      **Pre-Design Investigations**

#### Subtask 2.1. Sampling and Analysis

After reviewing the existing data, the Standby Consultant will conduct additional sampling, where necessary, to more accurately define the horizontal and vertical limits of excavation at the site. Based on these and prior results, the volume of soils exceeding 1 ppm and 10 ppm PCB at the site will be revised. Additional sediment samples from the wetland area to the east of the site will be collected to refine the estimate of the area and volume of sediments which will need to be addressed and to define the limits of excavation. Assume collection and analysis of 14 water samples and 40 soil samples. Sieve analyses, TOC, and other physical tests, as necessary, shall be performed on the representative soil types present at the site for design purposes.

## Subtask 2.2 Pre-Design Investigation Report

The deliverable for this task will be a report of data collected in Subtask 2.1. This report will include recommendations for:

- The final areal and vertical extent of soil and sediment requiring excavation, and corresponding volume to be treated,
- Waste disposal requirements. In particular, RCRA land disposal restrictions will be evaluated to determine the required disposal of material which may be taken off-site.

The NYSDEC will review and comment on the Pre-Design Investigation Report. The report will be revised pursuant to these comments and submitted in final form as an appendix to the 50% Preliminary Design.

## **Task 3 Plans and Specifications**

### Subtask 3.1 50% Preliminary Design

The Standby Consultant will prepare and submit three copies of a 50% Preliminary Design for review. This report will:

- provide operating parameters, general design criteria, potential production rates, and performance criteria (assume treatment standards of 1 ppm PCBs for top 18" of soil and 10 ppm thereafter) for the soil washing of contaminated soil and sediment from the site. Note: If possible, all design items provided should be applicable to both soil washing and thermal desorption, since if soil washing proves infeasible during the treatability studies, then thermal desorption will be utilized as the backup technology;
- specify and document design parameters for the final excavation areas, volumes, and expected contaminant levels for soil and sediment requiring remediation;
- specify run on, runoff, and erosion control methods to be employed during the remediation of the site, until a vegetative cover is re-established over the site;
- propose recovery methods and estimate excavation dewatering flows, storage requirements, water treatment capacity and discharge location, if necessary;
- provide specifications for the location and configuration of the treatment area, with particular attention paid to mitigation of short-term operating impacts from noise, odor, and dust;
- propose a site mobilization/demobilization plan which will provide necessary infrastructure including utilities, decontamination areas, roads, fencing, and security;
- provide a general operating plan for the soil washing unit, including treatability studies, startup, shakedown, and test program;
- identify all permit and substantive permit requirements required for the project, along with the federal, state, and local authorities that implement them;
- provide an outline for the Site Management Plan and Long Term Monitoring Plan;
- include the Pre-Design Investigation Report as an appendix.

### Subtask 3.2 95% Plans and Specifications

The Standby Consultant will prepare and submit three copies of 95% plans and specifications for review, including drawings, technical specifications and general and special conditions. In addition to the items included in the preliminary design, prepare a confirmatory sampling and contingency plan to ensure that contaminated soil is fully excavated. If necessary, permit or permit-equivalent applications will be completed as necessary for SPDES discharge and other requirements.

### Subtask 3.3 Final Plans and Specifications

Upon completion of the design documents, the Standby Consultant will submit to the NYSDEC for review three copies of the final plans, specifications, supporting data/documentation, and design calculations as a design report. These plans and specifications will bear the stamp and signature of a licensed Professional Engineer. Prior to this submittal, the Standby Consultant will have thoroughly coordinated and cross checked the bid form, specifications, and drawings to ensure consistency within the contract documents. Written comments will be provided by the NYSDEC describing the changes required to consider the plans and specifications accepted for bidding. The final design documents will be due three weeks after the Standby Consultant's receipt of the NYSDEC's comments on the 95% design deliverable.

The Standby Consultant will also submit a pre-bid construction, operation, and maintenance cost estimate for the project, along with an estimated schedule with the final design documents. The pre-bid estimate will be supported by quantity take-off sheets and the basis for the development of unit and lump sum prices used in the estimate. The pre-bid cost estimate will be itemized in the same manner as appears on the bid form and contract documents. Seven days after approval of the final design by the NYSDEC, *and at the discretion of NYSDEC*, the Standby Consultant shall submit 75 copies of the plans and specifications for bidding, plus mylars (25-75 additional copies may be needed).

## **Task 4** **Associated Plans and Design-Phase Support**

### Subtask 4.1 Construction Quality Assurance/Quality Control Plans

In addition to the deliverables for Subtask 3.2, the Standby Consultant will submit a draft Construction Quality Assurance/Quality Control (CQA/QC) plan that defines Quality Assurance/Quality Control (QA/QC) objectives and the procedures and lines of responsibility necessary to meet those objectives. The plan will specify the level of experience and training required for the Contractor's workers and the QA/QC inspectors in sufficient detail to demonstrate that the designed installation methods and procedures are properly implemented. Testing protocols will be specified along with inspection frequencies, field testing and equipment requirements, laboratory

testing requirements, and laboratory QA/QC requirements. The final CQA/QC Plan will be due with the initial deliverables for Subtask 3.3.

#### Subtask 4.2 Health and Safety Plan

The Standby Consultant will prepare a Health and Safety Plan (HASP) that sufficiently protects both NYSDEC and the Standby Consultant's personnel from the physical and chemical hazards present at the site during construction. The RI/FS HASP may be used by the Standby Consultant as a resource document. The HASP will describe adequate health, safety, and emergency response requirements along with procedures and lines of responsibility necessary to implement the plan. The draft HASP will be submitted with the deliverables in Subtask 3.2. The final HASP will be submitted with the initial submittal of the final design documents in Subtask 3.3.

#### Subtask 4.3 Community Health and Safety Plan

The Standby Consultant will prepare a Community Health and Safety Plan (CHASP) to protect persons in the area surrounding the site from chemical hazards or other significant problems during construction activities. This will include monitoring procedures, action levels, and response procedures to prevent adverse impacts to persons in the community. Continuous monitoring of particulates must be performed during excavation activities. The CHASP will include detailed sampling and QA/QC procedures for this sampling and analysis program.

The draft CHASP will be submitted with deliverables in Subtask 3.2. The final CHASP will be submitted with the initial submittal of the final design documents in Subtask 3.3.

#### Subtask 4.4 Contingency Plan

The Standby Consultant will prepare and submit a draft Contingency Plan with the submittal of the deliverables in Subtask 3.2. The final Contingency Plan shall be submitted with the initial submittal of the final design documents in Subtask 3.3. The Contingency Plan will address, but not be limited to, operational upset conditions, emergency episodes or problems associated with:

- Containment structures
- Excavation operations
- Temporary storage facilities
- Dewatering operations
- Water treatment
- Waste transportation and disposal

The Contingency Plan will include a Spill Prevention Control and Countermeasures (SPCC) Plan with, as a minimum, an organizational chart and list of emergency

contacts and phone numbers in the event of a release.

#### Subtask 4.5 Site Management Plan

The Standby Consultant will develop and submit three copies of a Site Management Plan that provides for the long-term maintenance of the site and identifies technical requirements to be included in the institutional controls placed on the property. These include a delineation of areas of residual contaminated soil (1 and 10 ppm PCBs) to be monitored and restricted from future use without treatment. The plans and specifications will include a provision for final survey of the areas of residual soil contamination to establish metes and bounds for these restrictions. The plan should address what characterization would be necessary for soil excavated from the site during future development and, where applicable, disposal/reuse of that soil in accordance with NYSDEC regulations.

#### Subtask 4.6. Long-Term Monitoring Plan

The Standby Consultant will develop and submit three copies of a Long-Term Monitoring Plan for groundwater, surface water, soil, and sediment. Included in the plan will be specifications for replacement of selected monitoring wells which may have been compromised during remedial activities and abandonment of monitoring wells not selected for long-term monitoring. The draft monitoring plan will be submitted along with the deliverables in Subtask 3.2. The final monitoring plan will be submitted with the final design documents in Subtask 3.3.

#### Subtask 4.7 Citizen Participation

The Standby Consultant will assist the DEC with Citizen Participation activities. The Standby Consultant will prepare graphics for fact sheets and presentations and attend availability sessions and public meetings (estimated total of two) with the general public.

#### Subtask 4.8 Water Sampling

To fulfill the ROD requirement for annual water sampling, one round of water sampling should be conducted during the Remedial Design phase. This may be conducted concurrently with the Pre-Design Investigation, or at a later stage of the design, to support the development of the Site Management Plan and Long Term Monitoring Plan.

### **Task 5: Pre-Award Services**

***At the discretion of NYSDEC, the Standby Consultant shall proceed to this task.*** The Standby Consultant will provide support services to the NYSDEC for the purpose of competitively bidding the site remediation contract.

Subtask 5.1. Pre-bid Meeting

In conjunction with NYSDEC personnel, the Standby Consultant will conduct a pre-bid meeting at the site with prospective bidders to emphasize important items of the project, tour the project site, answer questions, and prepare minutes of the meeting. The Standby Consultant will also prepare necessary addenda to the plans and specifications for timely transmittal to prospective bidders.

Subtask 5.2. Bid Review

The Standby Consultant will conduct a review of all bids received for the purpose of identifying the lowest responsive and responsible bidder. The Standby Consultant will notify the NYSDEC's authorized representative of any informalities and of any unbalanced or non-responsive bids. The Standby Consultant will submit to the NYSDEC a recommendation for award of the construction contract, the basis for the recommendation, a discussion of all significant issues concerning the bids, and an evaluation of bid protest, if necessary. This submittal will be due five working days after bid opening.

The Standby Consultant will also review all plans required by the contract documents that are submitted by each Contractor with the respective bids. This includes, but is not limited to, the Contractors Work Plan, Health and Safety Plan, QA/QC Plan, Project Schedule and Schedule of Values. The deliverable for this part of Subtask 5.2 will be written comments on the plans and contract documents submitted by the apparent low bidder. This deliverable is due four weeks after bid opening.

**Estimate of Work Assignment Budget**

<u>Major Tasks</u>	<u>Description</u>	<u>LOE Estimate</u> (hours)	<u>Cost Estimate</u>
Task 1	Develop Detailed Work Plan	160	\$ 12,960
Task 2	Pre-Design Investigations	350	\$ 28,350
Task 3	Plans and Specifications	2000	\$ 162,000
Task 4	Associated Plans and Support	400	\$ 32,400
Task 5	Pre-Award Services	120	\$ 9,720
<u>Subtotal</u>		3030	\$ 245,430

Anticipated Subcontracts (Design Phase):

1. Surveying \$ 5,000

2.	Drilling Services (sample collection)	\$ 10,000
3.	Laboratory Analysis (approx. 40 soil/14 water)	\$ 20,000
	<u>Subtotal</u>	\$ 35,000
	<b>Total</b>	<b>\$ 280,430</b>

**Period of Performance:**

The work assignment shall be completed through Task 4 within 7 months of the Notice to Proceed. *Task 5 will be performed at the discretion of NYSDEC.*

**Work Plan Development Cost Authorization:**

The consultant is authorized to spend up to \$13,000 to develop the detailed design work plan.

**Preliminary Project Schedule with Designated Milestones:**

<b>Project Milestone</b>	<b>Date</b>	<b>Duration</b>
Issuance of a Work Assignment (WA)	December 31, 2005	
Acknowledge Receipt of WA	January 10, 2006	10 Days after WA issuance
Site Visit and Scoping Session	January 14, 2006	2 weeks after WA issuance
*Submit Subtask 1.2 deliverable (Remedial Design Work Plan)	January 28, 2006	28 days after WA issuance
*Issue Notice to Proceed (NTP)	March 4, 2006	5 weeks after RD Work Plan Submittal
**Submit Pre-Design Investigation Report	May 27, 2006	12 weeks after NTP
NYSDEC Review & Comment on Pre-Design Investigation Report	June 10, 2006	2 weeks after receipt
*Submit 50% Preliminary Design	July 22, 2006	20 weeks after NTP
NYSDEC review and comment on Preliminary Design	August 5, 2006	2 weeks after receipt
*Submittal of 95% Plans & Specifications	September 5, 2006	1 month after receipt of NYSDEC comments on Preliminary Design
NYSDEC review and comment on 95% Design	September 19, 2006	2 weeks after receipt
**Submittal of 100% plans & specifications	October 10, 2006	3 weeks after NYSDEC comment on 95% Design
Submit 75 copies of Plans & Specifications for bidding	To be determined.	
Bid let	To be determined.	
Pre-Bid Conference	To be determined.	
Bid opening	To be determined.	
Submittal of Bid Evaluation	To be determined.	
Submittal of Summary Letter Report	To be determined.	
*Contract Award	To be determined.	

WA - Work Assignment  
NTP - Notice to Proceed

\* - Project Milestone  
\*\* - Project Milestone requiring Performance Evaluation