

## Pilon, Raymond L LRB

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**From:** Jeffrey McCullough [jbmccull@gw.dec.state.ny.us]  
**Sent:** Monday, November 28, 2005 3:04 PM  
**To:** Pilon, Raymond L LRB  
**Cc:** Joseph White; Barbara Youngberg  
**Subject:** Guterl Steel site # 932032

**Attachments:** WordPerfect 6.1



Guterl - DEC - RI-FS  
work assi...

Mr. Pilon,

FYI - We just got approval to start the RI/FIS work at Guterl. I'm preliminarily looking at 12/12/and 12/13 to conduct a site visit with the folks from MACTEC (DEC consultant for this work) so they can scope out the work plan. Attached is a copy of the RI/FIS work assignment sent to MACTEC for this site. We will need to discuss coordinating sampling efforts, I didn't know if you wanted to send out your staff or consultant to the site to meet with us or do you want to just review the work plan when it's drafted. Also, is there anyone from the NYSDOH or Niagara County DOH that we need to contact at this time? Please advise.

Thank you,  
Jeff

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**STATE SUPERFUND STANDBY CONTRACT WORK ASSIGNMENT  
SITE INVESTIGATION PROJECT  
CONTRACT TYPE: COST PLUS FIXED FEE**

**Site Name: Guterl Specialty Steel, City of Lockport, Niagara County (# 9-32-032)  
Program Element: Remedial Investigation/Feasibility Study  
NYSDEC Project Manager: Jeffrey McCullough**

**Narrative**

**Site Description**

The Guterl Specialty Steel Corporation Plant Site (Guterl) was a steel manufacturing facility encompassing a 70-acre parcel in the southwest portion of the City of Lockport, Niagara County, New York.

The site is bordered by Ohio Street to the east, Simons and Crosby streets to the north, and Route 93 to the west. Residential and commercial properties are located to the north along Simons and Crosby streets, while commercial properties are located east of the Guterl Plant Site along Ohio Street. To the west are the Frontier Stone Products Quarry and the Niagara County Refuse Disposal District Landfill. The Erie Barge Canal is located several hundred feet to the southeast.

The property is currently divided into three parcels; a manufacturing facility not related to the former Guterl Corporation operated by Allegheny Ludlum. Allegheny Ludlum presently leases the remaining lands of the original Guterl tract from the Niagara County Industrial Development Agency, and operates an active metal processing facility adjacent to the Excised Area. The Guterl site is currently listed as a New York State Department of Environmental Conservation (Department) Inactive Hazardous Waste Disposal Site No.932032. The Guterl site has two operable units; the Landfill Area (Operable Unit # 1) and the Excised Area (Operable Unit # 2). The Guterl Landfill site is part of the lands leased to Allegheny Ludlum. Several investigations of the landfill have been conducted over the past several years. The Excised Area has been included in the site listing as an area that requires further investigation and/or remediation.

The Excised Area is located in the eastern quadrant of the Guterl Plant Site, and encompasses nine-acres of the former plant adjacent to Ohio Street. Nine abandoned and deteriorating buildings occupy the Excised Area, including Buildings 1 and 2; the co-joined Buildings 3, 4, 5, 6, 8, 9 and Building 35. Except for Building 35, which was built in 1950, these structures were constructed between 1913 and 1920. Their areas range from approximately 3,750 square feet (Building 5) to more than 69,000 square feet (Building 2). The majority of the buildings are approximately 30 feet in clear height to the structural steel roof trusses. The walls are constructed of brick and the floors consist primarily of compacted soils. The structures contained within the Excised Area housed various manufacturing processes conducted during the active life of Guterl. Plant records indicate that the following operational units were housed within the buildings of the Excised Area: Building 1: Carpenter Shop, Building 2: Casting, Pickle and Etch Rooms; Boiler Room; Stock Room & Maintenance, Building 3: Grinding Room, Machine Shop & 30" Mill, Building 4&9: Sheet Mills, Sheet Finishing, Building 5: Power House; 25 cycle heat exchanger, Building 6&8: Band Mill, 10" Mill & 16" Mill and Building 35: Welding Shop. The exterior grounds of the Excised Area include a crane yard to the east of Buildings 1 and 2, an alleyway between Buildings 2 and 3, a courtyard area between Buildings 2 and 35, the exterior loading dock area to the west of Buildings 6 and 8, and rail spurs presumably used for receipt and/or shipment of goods.

**Site Operations and History**

In the early 1900's, the Simons Manufacturing Company built a large steel mill at this 70-acre site for the manufacture of cutting tools. The company later evolved into a producer of specialty steels.

Manufacturing operations conducted at the plant included casting, pickling, and grinding and milling of steel.

Supporting these operations were power generation, welding, bulk petroleum and chemical storage, machining, and product and raw material storage facilities. From 1948 through 1956, the plant also milled uranium ingots and, to a much smaller extent, thorium ingots, for the Manhattan Engineering District of the Atomic Energy Commission. A total of 25 to 35 million pounds of uranium and approximately 30 to 40 thousand pounds of thorium were rolled during this time. More than 99 percent of the rolling mill operations involved uranium, which was rolled on the 16-inch rolling mill located in Building 8. Several small lots of uranium bars were run through the 10-inch rolling mill, located in Building 6, and approximately 15 to 20 ingots were processed in the hammer forge shop located in Building 3.

In November 1965, the Wallace-Murray Corporation purchased the facility, which at that time was known as Simons Saw and Steel Company. In May 1978, the facility, which had been renamed Simons Steel, was purchased by the Guterl Specialty Steel Corporation with the specific intention of reestablishing the plant as a reliable source of specialty steel. In August 1982, Guterl filed for Chapter 11 protection, and in March 1984 conveyed the entire property except for the nine-acre Excised Area to the Niagara County Industrial Development Agency (NCIDA). The Excised Area is currently held by the Guterl Bankruptcy Trustee at the Western Bankruptcy Court in Pittsburgh, Pennsylvania. Later in 1984, the NCIDA leased the remaining portions of the former Guterl property, including the landfill portion of the site, to the Allegheny Ludlum Company. Allegheny Ludlum currently operates a mill for recycling of stainless steel. Guterl is no longer a viable corporation.

Portions of the Guterl site including parts of the Excised Area and Landfill have been found to contain elevated levels of radioactivity due to past processes. As radioactive wastes do not fall under the purview of the Division of Environmental Remediation (DER) and State Superfund Law, such contamination will not be investigated as part of this project. The Department of Energy has initiated steps to further investigation and possibly remediate the radioactive contamination found at the Guterl site under the federal Formerly Utilized Site Remedial Action Program.

In 1994, it was discovered that hazardous wastes were stored on-site in the vacant buildings of the Excised Area. Commencing in 1996, the EPA removed drummed hazardous wastes, mixed hazardous/radioactive wastes, and radioactive wastes. A significant quantity of radioactive dust exists in portions of some buildings within the Excised Area. In 1997, the Department initiated an Immediate Investigative Work Assignment conducted by Region 9 staff in order to assess whether hazardous waste was disposed on the site. Sample data indicated soil and groundwater is contaminated with volatile organic compounds, metals and phenols.

This work assignment (WA) has been prepared to conduct a Remedial Investigation/Feasibility Study (RI/FS) that will determine, to the extent possible, the source(s) of the contamination including but not limited to the areas on or near the Guterl Landfill and Excise parcels. In order to achieve an accelerated characterization at a reasonable cost, this effort will rely upon a flexible dynamic field activities work plan. This WA may include Interim Remedial Measures to mitigate source areas. It will incorporate additional field work and site assessment in areas similar to but not adjacent to the study area. A preliminary approach to sampling should be prepared but the consultant in consultation with the DEC will be selecting various locations for sampling based on analytical results. Initially a comprehensive records search will be done to help locate potential sources. The consultant chosen to perform this WA must have had previous experience in investigating and managing radioactive materials. Environmental media sampled during this investigation will require screening for radioactivity, if radioactive materials are subsequently found, the media will be properly segregated and secured.

### Scope of Work

*Landfill -  
Excised Area*

Services required of the standby Consultant include the development and implementation of a RI/FS. The RI will provide a thorough characterization of the nature and extent of contamination originating at the site, and will provide the necessary data to conduct a FS. The FS will identify and evaluate the alternatives available to remediate the site and will be used as the basis for selecting a preferred remedial alternative.

The Consultant will be responsible for integrating information collected by public agencies into the RI/FS. The findings of the RI must be reduced by the Consultant, analyzed, and made available to the DEC and the DOH for review. These findings will be used to determine if additional data is required.

The tasks and approach to be used in completing the RI/FS will be the same as documented in the Standby Contract and in accordance with the most recent versions of the Departments guidance documents pertaining to conducting a RI/FS. The main project tasks and a description of each task are as follows:

- Task 1.0 - Work Plan Development
- Task 2.1 - Phase I Remedial Investigation
- \* Task 2.2 - Phase II Remedial Investigation
- \* Task 3.0 - Pilot Study
- \* Task 4.1 - Individual Source Area Investigation
- \* Task 4.2 - Interim Remedial Measures
- Task 5.0 - Feasibility Study
- Task 6.0 - Citizens Participation

(\* Indicates that performance of this task will be based on field investigation results)

### **Task 1.0 - Work Plan Development**

Upon receipt of the WA, the Consultant's Project Manager will contact the DEC Project Manager to discuss and verify the work to be completed prior to the scoping meeting. This task will include a site visit by the DEC Project Manager and the Consultant. A scoping session will be held at DEC's headquarters in Albany following the site visit and the record review, but within three weeks of the receipt of the WA. At least two days prior to the scoping session, the Consultant will submit four copies of the preliminary Project Management Work Plan (PMWP) to the DEC Contract Manager. The preliminary PMWP will include:

- (1.) A statement of the overall Scope of Work (SOW) for the RI/FS.
- (2.) Detailed Level of Effort (LOE) and budget for Task 1.
- (3.) Preliminary estimate of the LOE and budget for conducting the RI/FS itself. The preliminary budget should include the summary of WA price, the direct labor hours budgeted and the monthly cost control report including subcontractor fees.
- (4.) Preliminary estimate of the WA progress schedule, including milestones and deliverables.
- (5.) Project Staffing Plan, identifying key management and technical staff members to be assigned to the WA and their areas of responsibility.
- (6.) Identification of work items to be subcontracted including a Minority/Women-owned Business Enterprise (M/WBE) and Equal Employment Opportunity (EEO) Utilization Plan.

A detailed records search will be performed. Available historic and/or background information and records provided by the DEC or located in the archives of the City of Lockport and Niagara County will be reviewed. This task includes but is not limited to:

- Site Reconnaissance and Regulatory Database Review.
- Interviews with Knowledgeable Individuals.

- Historical Land Records Review (property tax files, DBA's, recorded land titles, building department records, zoning/land use records, libraries, and historical societies, etc.).
- Historical Aerial Photograph and Topographic Map Review.
- Review of Regional and Local Geology and Soil Conditions.
- Regulatory information to be collected related to permits, prosecutions, control orders, work orders, complaints or any violations.
- Property use records such as fire insurance maps, city directory searches and contaminated site and property use registries were available.
- Company records search for useful documents such as building plans, environmental monitoring data, waste management records.
- Geological and geotechnical reports on the environmental condition of subject property.

The results from this records search and document review should be used to develop a conceptual site model. This model will be the basis for the approach to the subsequent field work. Based on the existing records review, the Consultant will present a summary of information regarding the nature and extent of the contamination at the site. The summary will include the scope of work for the field investigations, including the number of environmental samples, sample locations, method of sampling, type of analysis, and Quality Assurance/Quality Control (QA/QC) requirements should be included. As a rule, Analytical Service Protocol (ASP), latest version, must be followed unless otherwise directed by the DEC. The project schedule will be agreed upon during this meeting. Any significant issues regarding the overall project will be resolved at this time. The final PMWP, which will be delivered within three weeks of the scoping session, will include:

- (1.) SOW.
- (2.) A draft RI/FS Work Plan.
- (3.) Intermediate estimates of the LOE and budget for conducting the RI/FS.
- (4.) Intermediate estimates of the WA progress schedule, including milestones and deliverables.
- (5.) Project Staffing Plan.
- (6.) Identification of work items to be subcontracted, including a M/WBE and EEO Utilization Plan.

The work plan will provide all pertinent information on field work, construction details of monitoring wells, sampling locations and methods, the approximate number of samples to be collected and analyzed, parameters to be analyzed, analytical methods to be employed and a detailed project schedule. It should rely on tables and figures for demonstrating the plan. This plan will also include the names and addresses of all property owners that the DEC must contact to properly obtain site access. Any portions of the RI/FS to be decided in the field will be clearly identified.

As stated above, the approach the DEC wants to take with this project are to have a flexible dynamic field activities work plans. The plan should document the investigative objectives and approaches, discuss apparent data gaps, and clearly articulate the goals and decision logic for the field team. A preliminary approach to sampling should be outlined but the Consultant in consultation with the DEC will be selecting most locations for sampling based on analytical results. The plan should allow for the modification of field techniques if necessary.

The work plan will also identify work items to be subcontracted and include a M/WBE and EEO Utilization Plan.

### **Final RI/FS Work Plan Completion**

Within three weeks after receiving comments on the draft RI/FS Work Plan, the Consultant will submit the Final PMWP including the RI/FS Work Plan. The Final RI/FS Work Plan and budget must be deemed acceptable so that a Notice to Proceed (NTP) can be issued within 90 days of the issuance of

the WA. The Final PMWP will contain the following:

- (1.) SOW.
- (2.) FAP.
- (3.) Site Specific Health and Safety Plan.
- (4.) Site Specific Quality Assurance Project Plan.
- (5.) Citizen Participation Activities.
- (6.) M/WBE and EEO Utilization Plan.
- (7.) Detailed Budget for the entire WA.
- (8.) Final Progress Schedule for the entire WA.

The Health and Safety Plan (HASP) will address the site specific hazards to on-site personnel and the community and strategies to handles these hazards. This should include but is not limited to:

A purpose (i.e., The HASP has been designed to protect the health and safety of on-site personnel and the surrounding community during remedial activities at the site or that adherence to the HASP will minimize the possibility that personnel at the site or the surrounding community will be injured or exposed to site-related contaminants during remedial activities.);

A discussion of the intent to make prior notifications, if necessary, to local police, fire and potential emergency responders advising them of the remedial activities and schedule of events and an intent to notify adjacent property owners so that necessary precautions are taken such as closing windows and air-conditioning vents;

A section on community health and safety including methods by which the public will be contacted in the event of an emergency and a corresponding evacuation procedure, monitoring information, and contaminant action levels;

Site worker personal protection equipment;

A discussion of Community Air Monitoring with real-time air monitoring for VOCs and particulates at the perimeter of each designated work zone during ground-intrusive activities. The intent is to provide a measure of protection for site workers and the downwind community from potential exposure to airborne contaminant releases as a direct result of work activities. Action levels for particulates, VOCs and radioactive materials should be discussed. The DOH recommends that, because intrusive activities may potentially release airborne contaminants in the form of dust or vapors, continuous real-time monitoring be performed at the downwind perimeter of each exclusion/work zone when ground intrusive activities are in progress. Particulate monitoring will not be necessary when work is done in a non source area, unless dust is being generated. When invasive field work is creating dust or is being done in a source area, community air monitoring will be done in accordance with the DOH Generic Community Air Monitoring Plan.

A discussion of methods to cordon-off work areas to preclude unauthorized access and minimize potential exposure/injuries.

All quality assurance protocols, both ASP and non-ASP, as outlined in the Standby Contract, must be provided in the Quality Assurance Project Plan (QAPP) and approved by the DEC. Deviations from protocols specified in the QAPP may be approved in advance by the DEC. Consequently, it is imperative that the Consultant's Quality Assurance Officer maintains close contact with both the DEC and the analytical laboratory to correct any analytical problems that may arise during analyses.

The Citizen Participation (CP) Activities will include a discussion of those tasks necessary to assist the DEC with public meetings. This will include travel to public meetings, preparation of presentation materials for public meetings, mailing of fact sheets, etc.

The Task 1 Deliverable will be the Final PMWP including the final RI/FS Work Plan with those items discussed above. Once the Work Plan is approved by the DEC, a NTP will be issued to the Consultant for the RI/FS to be performed.

### **Task 2.1 - Phase I RI (Site Characterization)**

After work plan approval and issuance of the NTP, the Consultant will be required to start field activities per the schedule provided in the approved work plan. The Consultant will be responsible for providing on-site field oversight of subcontractors, preparing daily field logs, evaluating data and preparing a report which describes the findings, conclusions and recommendations. The Consultant will evaluate this new information in conjunction with existing site data to determine if any additional data is required to support selection of the remedy.

The Consultant is responsible for determining that the analytical laboratory has and maintains DOH Environmental Laboratory Approval Program (ELAP) certification in all categories of Contract Lab Protocol (CLP) and Solid and Hazardous Waste analytical testing for the duration of the project. Select data submittals will include "Category B" deliverables and Data Usability Summary Report (DUSR) on the selected data as identified in the approved work plan. Field investigations will be conducted to obtain data not already available to determine the nature and extent of contamination and the extent to which releases or potential releases from the site pose a threat to human health and the environment. New York State Standards, Criteria and Guidelines (SCGs) will be identified and compared with conditions at the site. Specific objectives of the site RI are as follows:

- Determine the extent and type of contamination in soil, groundwater, surface water and sediment including the possible presence of non-aqueous phase liquids (NAPL).
- Define hydrogeology, including impacts of buried utilities on local groundwater flow patterns.
- Identify potential pathways for human exposure as part of a qualitative exposure assessment.

The Consultant will conduct the following specific subtasks to achieve those objectives:

**Base Map Development** - Prior to initiation of on-site RI activities, a base map of the site and immediate vicinity must be developed. All relevant features of the site and adjacent areas will be plotted at a scale of 1 inch equal 50 feet. Relevant features include, but are not limited to, all structures, roads, fences, and existing wells. The base map will be used to accurately plot all surface soil and sediment samples, soil borings, monitoring wells, underground tank locations, and all other sample locations. Clearing of overgrown vegetation around the subject area will be required prior to any mapping or investigative work.

**Surface Soil Sampling** - Suspected source areas, if recognized, will be identified and sampled. Surface soil samples will be collected zero to two inches below the surface, vegetative cover, or pavement. Sampling areas would include unlined and lined drum storage areas, tank locations, and other suspected source areas.

**Soil Borings** - Soil borings will be done to collect overburden samples at suspected source areas where possible. The boring program will be structured to supplement the subsurface soil sampling work conducted during the Preliminary Site Investigation. Continuous soil sampling will be done during the soil boring and borings will be completed at the bedrock interface. Soil samples will also be taken from various locations to determine background levels of metals in off-site soils. The sampling and analysis will be conducted using the DEC ASP, latest edition. Typically one or two overburden samples from each boring should be collected based on visual evaluation and the highest

reading taken with an instrument reading VOCs. Samples can be collected with a direct push technology and screened with a photo ionization detector and radiation counter

**Groundwater sampling** - Groundwater samples in the upper aquifer can be collected at different depths using direct push technology and analyzed. Based on the initial results, a limited number of permanent monitoring wells will then be installed.

**Monitoring Well Installation** - Permanent monitoring wells will be installed to determine local groundwater flow in the upper aquifer and the distribution of groundwater contaminants.

**Well Development/Groundwater Sampling** - Upon completion of the well installation, the wells will be properly developed. Groundwater elevation will be recorded and groundwater samples will be taken from each of the wells and analyzed.

**Survey** - Upon completion of field work, the location and elevation of each of the wells and other sampling points must be established by a New York State-licensed surveyor. Elevations of all well casings and the corresponding locations will be determined to within 0.01 feet, based on a North American Datum (NAD) 83, and added to the base map.

**Data Validation/Usability Report** - All samples collected must be evaluated by the consulting firm. A usability analysis will be conducted by the Consultant's QA officer and a Data Validation/Usability Report will be submitted to the DEC.

**Fish and Wildlife Impact Analysis** - Complete through Step IIA of a DEC Fish and Wildlife Impact Analysis.

**Surface Water/Sediment** - Surface water and sediment samples will be taken to determine if contamination is impacting nearby surface water bodies and to establish the characteristics, areal extent and hydrogeologic properties of the strata underlying the site, and to assess the effect of the adjacent Erie Barge Canal and Frontier Stone Products Quarry. Sediment samples, if obtainable, will be taken from the locations where the surface water samples are acquired.

**Site Assessments in areas adjacent** - The Consultant will perform similar tasks as those mentioned above in areas adjacent to the subject properties. The purpose of this work will be to determine if site contaminants have impacted area outside of Guterl Steel. Similar sampling and analysis protocols will be used.

The Task 2 Deliverable will be the RI report documenting the field activities completed and an analysis of those findings. The final report consists of (1) the work plan and any deviations from the work plan, (2) the collected data, (3) interpretation of the data, (4) conclusions and recommendations appropriate to the site, and (5) field notes. Three copies of a draft Phase I RI report will be submitted at the completion of Task 2.1. If required by the DEC Project Manager, a meeting will be held in Albany to discuss comments and details of the draft Phase I RI report. The draft report will be revised based on comments from the DEC and a final RI report will be submitted for review and approval. The Consultant will submit three bound and one unbound copy of the final RI report, as well as a copy on disk in Adobe Acrobat (PDF.) format. Any tables and spreadsheets should also be submitted electronically in Adobe Acrobat (PDF.) format.

### **Task 2.2 - Phase II RI**

The Consultant will identify any supplemental data collection which may be necessary to adequately define the extent of soil, groundwater, surface water and sediment contamination at the site. The Consultant will submit a draft work plan for the additional investigations. A final Phase II work plan will be submitted in two weeks from the Consultant's receipt of the DEC comments pertaining to the draft work plan.

Upon approval from the DEC, additional field investigations will be performed by the Consultant or properly procured subcontractor(s) to obtain the necessary data for further characterization of site contamination.

Upon completion of the Phase II field work, the Consultant will prepare a report which summarizes the data obtained and the interpretations of site conditions. This report will be combined with the Phase I RI report completed under Task 2.1. The Consultant will submit the draft RI report (Phase I/II) to the DEC for review. Based on the DEC comments, the draft will be revised to become the complete, final RI report for the site. The Consultant will submit three bound and one unbound copy of the final RI report, as well as a copy on disk in Adobe Acrobat (PDF.) format. Any tables and spreadsheets should also be submitted electronically in Adobe Acrobat (PDF.) format.

### **Task 3.0 - Pilot Study**

If preliminary remedy selection indicates that a treatment system may be warranted to address contaminated soil and/or groundwater at the site, the Consultant will be tasked to perform a pilot study. The Consultant will evaluate the data from the RI to determine the applicability of a treatment system (soil vapor extraction, groundwater collection, or similar system) and prepare a work plan and cost estimate for the implementation of a pilot study of the selected treatment system.

After approval of the work plan by the DEC, the Consultant will implement the pilot study at the site. Upon completion of the pilot study the Consultant would prepare a report summarizing the results of the pilot study and discuss the feasibility of implementing a full scale system at the site. The Consultant will submit a hard copy of the report, as well as a copy on disk in Adobe Acrobat (PDF.) format. If DEC requests such work under this WA, an amendment to the budget would be negotiated with the Consultant.

### **Task 4.1 - Individual Source Area Investigation**

As field investigations suggest possible source areas, further investigation may be warranted in specific localized areas. The Consultant would be called upon to initiate further focused study, in the form of additional soil samples, soil gas, groundwater samples, etc. If DEC requests such work under this WA, an amendment to the budget would be negotiated with the Consultant.

### **Task 4.2 - Interim Remedial Measures**

If local areas of contamination are identified and source areas could be appropriately mitigated by initiating an interim remedial measure (IRM), the Consultant may be tasked to perform an IRM. If DEC requests such work under this WA, an amendment to the budget would be negotiated with the Consultant.

### **Task 5.0 - Feasibility Study**

The Consultant will do a Feasibility Study (FS) by collecting and using all information available and necessary to evaluate the remedial alternatives that are applicable and appropriate for the site. The Consultant will not score or rank the alternatives. A scoping meeting will be held to discuss the remedial alternatives applicable to the site. Based on discussions during this meeting, the Consultant will submit a letter report with the remedial alternatives to be considered for the site along with the conceptual details of the remedial alternative. This will be reviewed by the DEC. The detailed analysis will include evaluation of the following factors: overall protection of human health and the environment; compliance with SCGs; long term effectiveness and permanence; reduction of toxicity, mobility and volume; short term effectiveness; implement ability; and cost.

The Consultant will then submit a draft FS report presenting the results of the evaluation of the remedial alternatives and recommend a remedial alternative that will address the contamination found at

the site. The draft FS report will be revised by the Consultant based on then comments from the DEC and a final FS report (stamped by a registered professional engineer in accordance with the NYS Education Law) will be submitted for review and approval. The Consultant will submit three bound and one unbound copy of the final FS, as well as a copy on disk in Adobe Acrobat (PDF.) format.

**Period of Performance**

The RI/FS will be completed within 70 weeks of the receipt of the WA.

**Work Plan Development Authorization**

The Consultant is authorized to spend up to \$40,000 to perform Task 1.

**Estimated Budget of Work Assignment**

**Guterl Specialty Steel - RI/FS**

<b>Task</b>	<b>Description</b>	<b>Cost</b>
<b>1.0</b>	Work Plan Development	<b>\$40,000</b>
<b>2.1</b>	Phase I RI	<b>\$365,000</b>
	Site Survey	\$15,000
	Surface/Subsurface Soil Sampling/Analysis	\$125,000
	Monitoring Well Installation/Development and Sampling/Analysis	\$175,000
	Report Generation	\$50,000
<b>2.2</b>	Phase II RI	<b>\$50,000</b>
<b>3.0</b>	Pilot Study	TBD
<b>4.1</b>	Individual Source Area Investigation	TBD
<b>4.2</b>	Interim Remedial Measures	TBD
<b>5.0</b>	<b>Feasibility Study</b>	<b>\$50,000</b>
<b>6.0</b>	<b>Citizens Participation</b>	<b>\$10,000</b>
<b>Total Estimated Budget</b>		<b>\$515,000</b>

**Project Schedule**

**Guterl Specialty Steel - RI/FS**



<b>Task</b>	<b>Completion of Task</b>	<b>At week (*)</b>
<b>1.0</b>	Work Plan Development	<b>15</b>
<b>2.1</b>	Phase I RI	<b>25</b>
<b>2.2</b>	Phase II RI	<b>40</b>
<b>3.0</b>	Pilot Study	<b>45</b>
<b>5.0</b>	Feasibility Study	<b>60</b>
<b>Total Time</b>		<b>70 weeks</b>

(\*) Milestone evaluations will be completed after each project task.