NM - 22

MONITORING REPORTS

PROPOSAL

YEAR(S):

JAN. 31, 2001

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
NEW MEXICO OIL CONSERVATION DIVISION

PROPOSAL FOR INVESTIGATION, CLEANUP AND ENVIRONMENTAL REMEDIATION OF THE GOODWIN TREATING PLANT

Envirotech, Inc.
5796 US Highway 64
Farmington, New Mexico 87401
(505) 632-0615

January 31, 2001

PROJECT:
INVESTIGATION, CLEANUP AND ENVIRONMENTAL REMEDIATION
OF THE GOODWIN TREATING PLANT

Offeror Name: Envirotech Inc.

Project Approach (75): _____

Project Plan (150): _____

Experience:

Proposed project staff experence in oil field cleanup/remediation (150):

_____

Offerors Organizational relevant experience (175): _____

References:

Corporate(75): _____

Staff (75): _____

Cost (300): 346,386.66

Turnkey: _____

Itemized supplemental: _____

Total points : _____

Letter of Transmittal ✓ complete

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CouldNot Locate Business Specification

Responsive ✓

~~Responsive~~

Round 1

MJK

Letter Of Transmittal

1) Proposal submitted by:

Envirotech Inc.
5796 US Hwy 64
Farmington, New Mexico 87401

Phone (800)362-1879 or (505)632-0615
Fax (505)632-1879

2) Contract Authorizing Agent: Morris D. Young, President

3) Authorized to Negotiate:

Morris D. Young, President (800)362-1879
Harlan M Brown, Geologist (800)362-1879
Sam Ray Jr., Construction Superintendent , (800)362-1879

4) For clarification of proposal contact:

Harlan M. Brown, Geologist / Hydrogeologist, (800)379-1879
Sam Ray Jr., Construction Superintendent, (800)379-1879

5) Envirotech hereby accepts the terms of Section II, Conditions Governing The Procurement.

6) Signature of obligating agent:

Morris D. Young
Morris D. Young, President

01/31/01
Date

7) Envirotech is in receipt of two e-mail addendums to this RFP to answer question posed to the contracting officer. No Amendments were received.

Proposal Summary

Goodwin Treating Facility

Envirotech's approach to remediation of the Goodwin Treating Facility will be to assume the site is NORMs contaminated (one tank is currently known to be non-exempt for disposal purposes). Operating procedures, health and safety issues, and site remediation will proceed as though NORMs are present until proven otherwise. Access to the site will limited to personnel with business on-site.

Drilling, completion, and sampling of an on-site monitor well will determine cleanup levels based on the NMOCD Ranking Score and ultimate cleanup level for total petroleum hydrocarbons.

NORMs screening and any requisite sampling will take place as the first step and in such a manner as to allow efficient flow of on-site demolition activities. Confirmation of existing NORMS values will be obtained from accessible tankage during the drilling event.

Known NORMs contaminated tankage (#112) will be isolated. Inaccessible equipment will be opened, screened, sampled as necessary, and secured against disturbance pending receipt of analysis prior to proceeding with remediation of exempt equipment, fluid and soil. We believe that most of the suspect tankage will pass wet chemistry analysis for Radio-nuclide contamination and be classified as exempt for disposal purposes.

Removal of fluids, soils, and tankage found to be exempt will proceed once suspect NORMs samples have been forwarded for analysis. Petroleum hydrocarbon contaminated soil will screened by PID and scintillometer to document cleanup levels and disposal requirements.

Multi-tasking the remediation of this site (fluid and soil disposal, tank demolition, screening and sampling, and returning clean fill) will be incorporated as much as possible, provided it would not provide any potential for cross contamination of waste streams.

Field notes will be maintained to document daily activities and aid in completion of a summary report of all work completed at the site. The notes will include sampling, screening, disposal records, and a log of materials in and out of the site. Soil samples will be collected and analyzed to verify closure of the site to appropriate NMOCD standards for TPH contamination.

Goodwin Treating Facility

Project Approach

Envirotech Inc. proposes to follow Technical Specifications as detailed in Section V. A. of the Request for Proposals. Envirotech's main objective will be to properly segregate waste streams by characteristic to facility proper handling and disposal. To this end we will verify, by field screening, data provided in the Phase I assessment included with information provided as part of the RFP packet. A Certified NORMs technician will check each vessel for NORMs Contamination exceeding Subpart 14 guidelines. We will not assume that any vessel automatically passes NORMs requirements based on the Phase I. Samples will be collected for wet analysis based on Section 1403 of the Norm Guidelines. As a basis for this proposal, we are assuming that 13 of the vessels will need wet lab analyses to either characterize the contents of the 13 tanks as exempt or NORMs contaminated. Based on the results of a similar sample submitted by AMEC we have assumed that the contents of the vessels will be exempt.

Envirotech has on staff a core of personnel experienced with hazardous material and radioactive nuclide mitigation projects. Appropriate licenses, permits, and personnel monitoring will be utilized for this project. All crew members participating in this project will possess current with RAD Worker I Training Certification.

Drilling and setting the monitor well will be conducted as the first task in order to establish cleanup standards for TPH constituents at the site. While on site for this phase of the work, we will open the tops of the redwood tanks in order to profile the contents. Lack of NORMs contamination in these vessels will facilitate removal of all non-NORMs solids, liquids, and tankage from the site. NORMs contaminated materials will be handled only after non-NORMs vessels are out of the way. This will also allow for NORMs screening of soils beneath existing vessels that pass NORMS screening for their contents.. The objective here is to leave NORMs contaminated materials in place while removing "other" materials (ie. TPH contaminated soil, non-NORMs tanks, and other debris) in order to minimize and prevent cross-contamination with NORMs media.

NORMs screening will be conducted at regular and recorded intervals to document site characteristics. A daily log keyed to a site map will be maintained in order to document site screening.

PROJECT PLAN

1) A monitor well will be drilled either within the present boundaries of the evaporation facility (pond) or at the southeast corner of the former pond in order to characterize chloride contamination in caliche and limestone bedrock beneath the pit. Determining the depth to groundwater will be instrumental in determining a Ranking Score for closing the site. If groundwater is greater than 50 feet from the surface, cleanup standards may be 1000 parts per million Total Petroleum Hydrocarbons.

   We would prefer to place the monitor well at the southeast corner of the pit in order to facilitate completion of the well, including an above grade well protector, in order to avoid complications related to backfilling the former pit. Backfill operations designed to obtain the required positive drainage around the wellhead and off of the site would likely result in damage to the PVC well bore if it were located in the pit area.

The soil boring will be completed using a Mobile 61B drill rig equipped with Tubex Casing Advance Drilling equipment (air rotary). Air is supplied to the unit using a Quincy 900 CFM air compressor. If possible split spoon soil/ rock samples will be obtained at 3-5' and ten foot intervals using an auto hammer. If this is not possible due to rock hardness, representative samples will be obtained by catching the cuttings as they exit the top of the tubing. A Schedule 40 PVC monitor well will installed with 15 feet of screen (10' below the water level and 5' above the water level), 10-12 Colorado Silica Sand will be placed to approximately 2 feet above the screened interval, 2-3 feet of bentonite pellets will placed over the sand pack, the balance of the annulus grouted to surface, and an above grade well protector installed in a concrete pad.

The well be developed to remove extraneous material from the sand pack and allowed to rest until the following day. The well will be purged and sampled. Samples will packed per SW-846 guidelines and same day shipped for analysis.

2) A Certified NORMs sampler will be on-site during the drilling. In order to expedite non-NORMs cleanup at the site, the tops of the redwood tanks will be opened enough to determine the NORMs level of the contents. If field screening indicates that sampling and analyses by wet chemistry are required to suitably quantify the contents of the vessel, the sampling will be conducted at this time. Normal turn around time for radio-nuclide analytical results is expected to be approximately three weeks. Note: The sampler/screen technician will utilize PPE suitable for a NORMs environment during this sampling event.

3) Following drilling and completion of the well, and the sampling that can be conducted in the redwood tanks, work at the site will stop pending receipt of analytical results and preparation of the drilling report.

4) Demolition activities will begin when closure standards have been determined (by depth to groundwater established with drilling) and when we have received the first set of NORMs results. Tank #112 will be immediately isolated as a potential hazard area when demolition activities begin (along with any other positive hits for Ra-226 or total radio-nuclide contamination).

Tanks that are not currently accessible and have not been fully screened prior at this time will be opened with a tank shear to facilitate screening. Samples will be collected as appropriate for wet chemistry analysis. Once the screening and sampling is completed, demolition and disposal will commence on the tanks and contents that pass the screening event. Suspect tankage will be isolated with Caution barrier tape pending analytical results.

5) Petroleum hydrocarbon contaminated (PHC) soil will be removed from the site after the non-NORM contaminated tanks have been removed. NORMs screening will take place as the PHC is removed. NORMs screening will be conducted on tankage and related infrastructure (valves, lines, sumps etc.). Soil contaminated by spills and leaks will also be screened to verify that NORMs contamination is not present above acceptable levels. Soil located under tankage will be screened for NORMs after the tanks are removed. NORMS and PID screening of PHC contaminated soil will

be conducted as the excavation proceeds to insure adequate profiling for proper disposal. Backfill of these excavations will take place to facilitate further site work on NORMs related materials.

6) Steel materials will be sheared or cut to appropriate sizes for recycling. Redwood tank debris will be salvaged if possible for reuse, otherwise it will be shipped as debris.

7) The balance of on-site equipment and PHC soils will be demolished, remediated, and disposed of based on the results of wet chemistry analyses and Ranking Score clean up standards.

8) Clean caliche backfill has been located at a BLM resource pit within sixty miles of the site. Equipment necessary to loosen, load, and reshape the site will be mobilized to the barrow pit. We anticipate using up to 3000 (1450 quoted to replace PHC soil) cubic yards of barrow to recontour and create positive drainage at the site.

Project Management

On-site Supervision - All work at the site will be under the direct responsible charge of Envirotech's Project Manager. In his absence from the site, construction management will be assumed by Envirotech's Construction Superintendent. No work will performed without a responsible (designated) supervisor on-site.

Project Manager; Harlan M. Brown; Geologist / Hydrogeologist; 14 years environmental project management, environmental consulting, and related duties. (OCD remediation projects include Paramount Well Site Remediation Project, Southwest Water Disposal Facility remediation, and APA Woosley - Santa Fe Barbs & Leggs and Nerdlihc well site remediation.)

Technical documentation, material profiling, screening, sampling, monitoring, and site safety will be the responsibility of the Project Manager.

Construction Superintendent; Sam Ray Jr. Ten (10) years environmental construction and remediation activities. (OCD remediation projects include Paramount Well Site Remediation, Southwest Water Disposal remediation, and APA Woosley - Santa Fe Barbs & Leggs and Nerdlihc wellsite remediation.)

Oversight of day to day field operations, site security, equipment scheduling, maintenance, materials management (export and import), and recycling are the Construction Superintendent's responsibility.

Drilling - Kelly Padilla; six (6) years environmental and geotechnical drilling experience, including RAD sites.

Envirotech's experienced project managers, operators, and laborers are all 40 Hazwoper Trained with additional specialized training to meet the needs of mining, oilfield, and the construction industry. All on-site personnel will have current Rad Worker I certificates for this project.

Site Security

The site will remain locked during non-business hours. Only personnel with job related business will be allowed on-site during this project. Tank #112 will be secured with Caution barrier tape to prevent damage or disturbance prior its intended destruction. Berms, gates, and fences currently in place at the site will remain until contamination (PHC or NORMs), tanks, and other equipment have been removed and site grades restored.

Ingress and egress to the site will be controlled and monitored at the entrance to the site in order to document authorized presence, insure proper routing of waste streams, and insure that proper paperwork accompanies each load.

When NORMs mitigation or sampling is underway, PPE, dosimeter badges, and limited access to the work area will be strictly enforced. Sampling (screening) will be conducted by licensed personnel. All personnel involved in the mitigation of NORMs contaminated material will have current Rad Worker I training and have suitable PPE (PAPR, Tyvek, Full Face Mask, Rubber Gloves, rubber booties or reinforced Tyvek Booties, dosimeters, etc.).

Site safety will include daily "Tail-gate Safety Meetings" designed to address hazards associated with the work. Topics of discussion will address the daily work schedule and include potential chemical and NORM exposure hazards, "slips, trips and falls" associated with demolition projects, crushing hazards associated with heavy equipment movement and tank demolition projects, excavation safety, and other relevant topics.

Disposition of Contaminated Materials

Petroleum hydrocarbon contaminated materials that pass NORMs screening will be disposed of or remediated at Sundance Services an NMOCD permitted facility. Steel tank materials and lines that pass NORMs screening will be cut or chopped to suitable sizes and sent to an as yet undetermined steel recycling facility. General debris will go to an NMOCD permitted landfill (unless current landfill rules change and the material can be delivered to a Subtitle D Landfill).

NORMs contaminated materials will go to Lotus LLC located near Andrews, Texas. This site is currently on the New Mexico Radioactive Bureau's list of sites approved to receive NORMs contaminated materials.

Equipment Schedule

Cat 325 Excavator
Cat 938 Loader
Cat 416 B Backhoe
Twenty Cubic Yard End Dumps and Belly Dumps
Cat D-7d Dozer
Cat 325 Excavator or Kamatzu PC 220(shear)
Various support pickups

Experience (representative)

Envirotech Inc. has direct specific experience remediating hydrocarbon and hazardous waste sites for government and industry sites. The following is a representative list of projects.

Paramount Well Site Remediation; EMNRD - OCD, Denny Foust, OCD Field inspector
Southwest Water Disposal; EMNRD - OCD, Martyne Kieling, Field oversight
APA Woosley - Santa Fe Barbs & Leggs and Nerdlihc Well Site Remediation, EMNRD - OCD; Denny Foust and Charlie Perrin Field oversight
Elkhorn Operating; Plant demo and cleanup after explosion; Gene Gurrette oversight
Love's Country Store #215; NMED USTB; Joyce Castro Shearer oversight
EPFS, Blanco Hub, Flare pit remediation, Sandra Miller (EPFS) and Denny Foust oversight
EPFS, San Juan Basin; Sandra Miller, building demolition, various camps
Williams Field Service; Asbestos abatement, 180 separators/dehy's, Shawn Adams oversight
Montezuma County Landfill; Chloropicrin mitigation (acute haz waste); Debra Barton oversight
Red Cedar Gathering; Mercury Meter House mitigation; Shawn Young oversight
Central Resources; H_2S produced water pit remediation; Laurie Cocharo oversight
Texaco NA Production; Production site remediaton and hydrogeologic investigations; Larry Schlotterback
Red Cedar Gathering; Assessment and remediation of 250 production sites, Shawn Young

References:

Envirotech Inc. has direct specific experience conducting a variety of remediation projects including pit remediation, underground storage tank removal and leak remediation, hazardous materials cleanup and mitigation, mercury contaminant mitigation, oilfield tank demolition, well site remediation, monitor well drilling, completion, and sampling, building demolition, mitigation projects involving special circumstances (NORMs screening, H_2S contamination, asbestos and acute hazardous wastes), and hydrogeological site assessments to determine horizontal and vertical extent of contamination. The following individuals have had oversight responsibility over some of our work. They are included as references regarding our competence to complete a variety of tasks, quality of final product, timeliness in completing our work, and safety in completing projects. We invite your inquiry.

Denny Foust; NMOCD - Aztec District Office; (505)334-6178 ext 15
Martyne Kieling; NMOCD - Santa Fe Office; (505)476-3440
Gene Gruette; Elkhorn Operating Company; (435)651-3254
Joyce Castro-Shearer; New Mexico Environment Department UST Bureau; (505)827-0173
Laurie Cocharo; EXCO Resources, Inc.; (303)830-1490
Larry Schlotterback; Texaco NA Production; (505)325-4397 ext 17
David Bays; El Paso Field Services; (505)599-2256
Loren Paris; El Paso Field Services; (505)632-6505
Shawn Young; Red Cedar Gathering Company; (970)-382-7397
Debra Barton; Montezuma County Landfill; (970)-565-9858
Lance Buckley, Williams Field Service; (505)-632-4682

C. BUDGET

A turnkey cost, as shown below, will be included in each proposal (refer to Section V):

	TECHNICAL SPECIFICATION	ITEM COST
1.	Sub-surface contamination investigation based on air rotary	$ 11,109.50
2.	Well completion based on 60 foot well	$ 755.00
3.	Groundwater sampling and analysis	$ 2,071.50
4.	NORM requirements	$ 44,056.90
5.	NORM survey and lab analysis	$ 5,040.00
6.	Tank fluid removal and disposal	$ 10,705.00
7.	Tank solids removal and disposal	$ 19,410.00
8.	Tank and equipment removal	$ 149,890.00
9.	Near-surface contamination investigation based on lab 35 samples	$ 6,276.00
10.	Contaminated soil removal based on1450 cyd	$ 45,782.50
11.	Backfilling excavations with back-hauled clean soil	$ 26,506.00
12.	Phase 1 report	$ 1,785.00
13.	Phase 2 report	$ 1,785.00
14.	Phase 3 report	$ 2,380.00
	Total	$ 327,552.40
	NM Gross Receipts Tax	$ 18,834.26
	Total Turnkey Cost	**$** 346,386.66

A supplemental cost rates as shown below, will be included in each proposal. Supplemental rates are to be applicable if charges are made in addition to or in lieu of turnkey cost. Switching to hourly rate or other implementation of supplementary rates must be approved by the EMNRD-OCD Procurement Manager. The turnkey cost will not be accepted unless all supplemental rate data is furnished. The supplemental rates listed below will be considered firm bids.

SUPPLEMENTAL RATE DESCRIPTOIN OF SERVICE	RATE PER	UNIT
Air rotary rig equipped to perform all work Set out in technical specifications	$ 242.00	hour
Bentonite pellets	$ 0.81	pound
Blank 2 inch PVC riser	$ 1.97	foot

Move-in, move-out charges	$ 75.00	hour
Water truck - capacity 80 bbls	$ 70.00	hour
Backhoe - minimum hours if applicable_____	$ 59.50	hour
Trackhoe - minimum hours if applicable _____	$ 110.00	hour
Dozer - minimum hours if applicable _____	$ 95.00	hour
Trucking - minimum hours if applicable _____	$ 70.00	hour
Front end loader - minimum hours if applicable __	$ 85.00	hour
Senior scientist	$ 59.50	hour
Environmental technician	$ 55.50	hour
Certified NORM technician/scientist	$ 55.50	hour
Labor	$ 28.80	hour
Photo Ionization Detector (PID)	$ 65.00	day
Chloride laboratory analysis	$ 15.00	per analysis
TPH laboratory analysis	$ 69.00	per analysis
BTEX laboratory analysis	$ 69.00	per analysis
Contaminated soil offsite landfarm remediation	$ 14.25	per cubic yard
Back-haul clean soil	$ 2.75	per cubic yard
NORM contaminated soil offsite disposal include trucking cost	$ 955.30	per cubic yard
Produced water and non-NORM liquids disposal	$ 3.10	per barrel

VI. EVALUATION PROCESS

A. EVALUATION POINT SUMMARY

The following is a summary of evaluation factors and the point value assigned to each. These weighted factors will be used in the evaluation of the individual offeror proposals. Points will be awarded on the basis of the following evaluation factors:

Specification	Points
1. Project Approach	75
2. Project Plan	150

Goodwin Timeline

Task							
Drill well; sample	4-5days						
Open Sample; Redwood Tanks	concurrent						
NORMs results if needed		three weeks					
Open Steel tanks Screen/sample			three days				
Demo - non-NORM facility				three weeks	X	X	X
Package NORM material					2 days		
(receive NORM wet chem results)					X		
Demo Balance of non-NORM				Two Weeks	X	X	
exempt)							
BackFill Site					X	X	X
excavator to barrow - lossen fill				0ne week			
load and haul - barrow					X	X	X