

THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS
ACTION AGENDA SUMMARY

DEPT: PUBLIC WORKS GP

BOARD AGENDA # *C-2
AGENDA DATE SEPTEMBER 18, 2001

Urgent _____ Routine ✓

CEO Concurs with Recommendation YES _____ NO _____
(Information Attached)

4/5 Vote Required YES _____ NO ✓

SUBJECT: APPROVAL OF PROJECT AGREEMENT 2001-02 FOR OPERATION, MONITORING, AND MAINTENANCE (O&M) OF THE LANDFILL GASES (LFG) AND GROUNDWATER TREATMENT AND MONITORING FACILITIES AT THE CLOSED GEER ROAD LANDFILL WITH SCS FIELD ENGINEERS, INC.

STAFF
RECOMMEN-
DATIONS:

1. APPROVE THE PROJECT AGREEMENT 2001-02 FOR OPERATION, MONITORING, AND MAINTENANCE (O&M) OF THE LANDFILL GASES (LFG) AND GROUNDWATER TREATMENT AND MONITORING FACILITIES AT THE CLOSED GEER ROAD LANDFILL WITH SCS FIELD ENGINEERS, INC.; AND,
2. AUTHORIZE THE CHAIR OF THE BOARD TO SIGN THE PROJECT AGREEMENT 2001-02.

FISCAL
IMPACT: Funding for Project Agreement 2001-02 is available in the Geer Road Landfill budget.

BOARD ACTION AS FOLLOWS:

No. 2001-716

On motion of Supervisor Simon , Seconded by Supervisor Caruso
and approved by the following vote,

Ayes: Supervisors: Blom, Simon, Caruso, and Chair Paul

Noes: Supervisors: None

Excused or Absent: Supervisors: Mayfield

Abstaining: Supervisor: None

1) X Approved as recommended

2) _____ Denied

3) _____ Approved as amended

MOTION:

SUBJECT: APPROVAL OF PROJECT AGREEMENT 2001-02 FOR OPERATION, MONITORING, AND MAINTENANCE (O&M) OF THE LANDFILL GASES (LFG) AND GROUNDWATER TREATMENT AND MONITORING FACILITIES AT THE CLOSED GEER ROAD LANDFILL WITH SCS FIELD ENGINEERS, INC.

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DISCUSSION: The closed Geer Road Landfill site has a gas flair system, monitoring wells, as well as a water treatment facility that will be monitored by SCS Field Services, Inc. (Consultant). Under this agreement the Consultant shall provide services for operation, monitoring, and maintenance of the landfill gases and groundwater treatment and monitoring facilities. Services will be in accordance with the adopted Central Valley Regional Water Quality Control Board requirements and Waste Discharge Requirements Order No. 5-00-087, as set forth in the Proposal and Scope of Services. If approved, Project Agreement 2001-02 with SCS Field Services shall not exceed \$166,342.00.

POLICY ISSUE: This action is consistent with the Board's policy of providing a safe, healthy community.

STAFFING IMPACT: There is no staffing impact associated with this action.

RG:la
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PROJECT NO. 2001-02
(SCS Field Services)

A. TERMS AND CONDITIONS

Except as hereinafter provided, the services provided by the Consultant under this Project shall be subject to the terms and conditions set forth in the MASTER AGREEMENT FOR PROFESSIONAL SERVICES made and entered into by and between the COUNTY OF STANISLAUS ("County") and SCS - FIELD SERVICES INC., a California corporation doing business as SCS FIELD SERVICES ("Consultant"), on March 30, 1999 (the "Agreement").

B. SCOPE OF WORK

The Consultant shall provide services under as set forth in the Consultant's "Proposal for the Operation, Monitoring, and Maintenance (O&M) of the Landfill Gas (LFG) and Groundwater Treatment and Monitoring Facilities at the Closed Geer Road Landfill, Modesto, California" dated April 30, 2001 (the "Proposal"), attached hereto and, by this reference, made a part hereof. This scope of work covers and includes the term beginning July 1, 2001 and ending June 30, 2002.

C. COMPENSATION

The Consultant shall be compensated for the services provided under this Agreement as follows:

1. Consultant will be compensated on a time and materials basis, based on the hours worked by the Consultant's employees or subcontractors, multiplied by the current rates incorporated as Attachment A and Attachment B attached to the Proposal and incorporated herein by reference; provided, however, the Consultant will provide the County 30-days notice before any change in the rate schedule takes effect. In addition to the aforementioned fees, Consultant will be reimbursed for the following items, plus any expenses agreed to by the parties as set forth the Proposal, that are reasonable, necessary and actually incurred by the Consultant in connection with the services:

- (a) Any filing fees, permit fees, or other fees paid or advanced by the Consultant.
- (b) The cost of any subcontractors, consultants, experts or investigators retained pursuant to Paragraph 1.6 of the Agreement.
- (c) Expenses, fees or charges for printing, reproduction or binding of documents at actual costs.


2. The parties hereto acknowledge the maximum amount to be paid by the County for services provided shall not exceed \$166,342.00.

///

In Witness Whereof, the parties have executed this Project No. 2001- 02 on July 1st 2001.

COUNTY OF STANISLAUS

SCS FIELD SERVICES, INC.

By: 
Pat Paul
Chair of the Board of Supervisors


By: 
Gaylon Pelayan
President

"County"

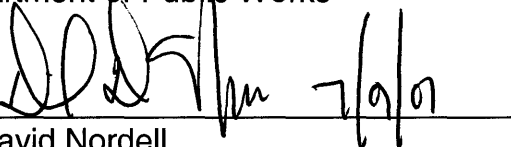
"Contractor"

ATTEST: Christine Ferraro Tallman
Clerk of the Board of Supervisors of the
County of Stanislaus, State of California


Taxpayer Identification No. 33-0149140

By: 
Deputy Clerk

APPROVED AS TO CONTENT:
George Stillman, Director
Department of Public Works

By: 
David Nordell
Operations Manager

APPROVED AS TO FORM:
Michael H. Krausnick
County Counsel

By: 
John P. Doering
Deputy County Counsel

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SCS FIELD SERVICES

April 30, 2001
File No. 07198080.00

Mr. Ron Grider
Department of Public Works
County of Stanislaus
Post Office Box 86
Crows Landing, California 95313

Subject: Proposal for the Operation, Monitoring, and Maintenance (O&M) of the Landfill Gas (LFG) and Groundwater Treatment and Monitoring Facilities at the Closed Geer Road Landfill, Modesto, California

Dear Mr. Grider:

Pursuant to your recent request, SCS-Field Services Inc. (SCS-FS) is pleased to submit the following Scope of Work, Assumptions and Conditions, and Compensation to perform the subject work. SCS-FS understands that our contract agreement will be for one year renewable for up to 4 additional years. For each additional year the Scope of Work, Compensation and Fee Schedule rates will be adjusted to meet regulatory and specific site requirements. The first year contract period will be from July 1, 2001 through June 30, 2002.

SCOPE OF WORK

Our Scope of Work has been structured to operate, monitor and maintain the Geer Road facilities to help control LFG migration such that operational goals established by the system design engineer, the San Joaquin Valley Unified Air Pollution Control District (APCD), and other regulatory agencies are met. In addition, our scope of services will be to provide operation, monitoring, maintenance and testing of the groundwater pump and treatment facility and associated groundwater test wells. SCS-FS will team with Kleinfelder to perform groundwater environmental monitoring. Groundwater monitoring will be performed according to Central Valley California Regional Water Quality Control Board (CVRWQCB) Monitoring and Reporting Program (MRP) No. 5-00-087. SCS-FS proposes to divide LFG and groundwater system operation, monitoring, maintenance, and LFG surface and flare emissions testing into the following Tasks:

- | | |
|--------|---|
| Task 1 | - Routine LFG system operation, monitoring, and maintenance |
| Task 2 | - LFG surface emissions testing/reporting |
| Task 3 | - Flare emissions source testing/reporting |
| Task 4 | - Groundwater system operation, monitoring and maintenance |
| Task 5 | - Groundwater environmental monitoring |

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- Task 6 - Non-routine emergency services
- Task 7 - Non-routine scheduled services

Task 1 - Routine Operation, Monitoring, and Maintenance

SCS-FS will implement the following routine operation, monitoring, and maintenance program:

Monitoring--

- Weekly -
 - The North and South Blower/Flare Stations (BFS) will be monitored. Data will be collected, recorded, and stored in a computer database for the following:
 - date, time, and monitoring personnel
 - meteorological conditions (i.e., wind velocity, barometric pressure, ambient temperature, weather conditions, etc.).
 - extraction blower operating inlet and outlet temperatures and pressures
 - methane gas, oxygen gas, carbon dioxide gas concentrations at flare inlet
 - flare exit gas temperature
 - LFG flow rate to flare
 - flare combustion louver and flow control valve positions
 - supply air pressures to LFG condensate handling systems
 - check air compressor/oil level
 - check pilot ignition system propane storage tank level
 - check condensate injection systems and storage tanks
- Monthly -
 - LFG monitoring probes will be monitored. Weekly follow-up testing will be conducted at "hot" monitoring probes (i.e., methane gas concentrations at or above five percent by volume) until below five percent by volume or none detected reading is obtained. Data will be collected, recorded, and stored in a computer database for the following:
 - date, time, and monitoring personnel
 - meteorological conditions (i.e., wind velocity, barometric pressure, ambient temperature, weather conditions, etc.).

- pressure
- methane gas concentration
- oxygen gas concentration
- carbon dioxide gas concentration

-LFG extraction wells will be monitored. Bi-monthly follow-up testing and adjusting will be conducted at extraction wells adjusted in response to system balancing. Data will be collected, recorded, and stored in computer database for the following:

- date, time, and monitoring personnel
- meteorological conditions (i.e., wind velocity, barometric pressure, ambient temperature, weather conditions, etc.).
- pressure
- methane gas concentration
- oxygen gas concentration
- carbon dioxide gas concentration
- wellhead vacuum and flow (where applicable)
- header vacuum (where applicable)
- LFG temperature

-Once each month (where applicable), main header line access ports will be tested for pressure. The results will also be stored in a computer database and analyzed for long-term trends (i.e., pressure drops indicate possible condensate blockages and/or pipe breakages, etc.).

-LFG control system blowers, flame arresters, flares, control panel, well fields, and condensate pump systems will be observed for the following:

- accessibility
- vandalism
- malfunctions
- leaks

- Quarterly -
 - Once each quarter, on-site buildings (i.e., scale house) will be monitored in accordance with Sections 20931 through 20933, Title 27 of the California Code of Regulations (CCR). In addition to the parameters below, SCS-FS will document testing protocols and instrument calibration, locations of area readings equal to or in excess of 1.25 percent by volume in air will be recorded (and appropriate County staff notified immediately) along with the following:
 - date, time, and monitoring personnel
 - meteorological conditions (i.e., wind velocity, barometric pressure, ambient temperature, weather conditions, etc.).
 - methane gas concentration
 - oxygen gas concentration

Operation--

- Monthly -
 - LFG extraction wells and BFS total flow will be adjusted as required to help control LFG migration (methane gas levels below five percent by volume at the property line and surface emissions below 1000 ppm) and optimize system performance.

Maintenance--

- Monthly -
 - Drain/purge water traps, monitors, and pitot tube.
 - Inspect monitors/sensors, pitot tubes, and strip charts in accordance with manufacturers specifications:
 - Rotate active/inactive blowers,
 - Temperature and flow recorder paper will be replaced as necessary,
 - BFS controller set points will be checked and adjusted as necessary,
 - Condensate pumping, injection systems will be checked for proper operation,

- Maintain the air compressor, drain liquids, check operations and add oil as necessary,
- Test alarm signals (e.g., flame failure, etc.) Simulate for proper operation notification.
- Quarterly -
 - The blowers (and electric motors) will be lubricated in accordance with the manufacturers specifications:
 - Inspect flame arrester
 - Inspect burner head
- Semi-Annual -
 - The South flare air compressor systems will be checked and serviced by Associated Compressor, Inc.
- Annually -
 - Vessel and piping systems will be observed for corrosion.
 - At project inception and annually thereafter, prepare and inventory a list of critical spare parts (e.g., chart paper, methane sensors, electrical fuses, etc.).

Reporting--

- Monthly -
 - Once each month (due by the end of the following month), SCS-FS will prepare a detailed report to the County containing data collected, and a summary of all activities performed on the project during the reporting period. Maintenance repairs and/or system modifications will also be recommended as required.

Task 2 - Routine LFG Surface Emissions Testing and Reporting

LFG Surface Emissions Testing and Reporting is to be performed once per year in accordance with APCD Rule 4642. Last test and due date are as follows:

	<u>Last Test Date</u>	<u>Test Due Date</u>
Surface Testing/Reporting	May 2001	May 2002

Mr. Ron Grider
April 30, 2001
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Based on this information Surface Testing and Reporting is required during this contract period. SCS-FS will perform either semi-annual or annual surface emissions testing in accordance with APCD Rule 4642 via the following:

Monitoring--

- Semi-Annual - Surface monitoring will be conducted using a portable flame ionization detector or other device approved by the APCD which will be calibrated to manufacturer's specifications. Monitoring will only be conducted when the average wind speed remains under 5 miles per hour (mph) and the instantaneous wind speed remains under 10 mph. Wind speed will be recorded using an on-site anemometer with continuous recorder. Monitoring will only be conducted when minimum of 72 hours has passed since the latest rainfall. Monitoring will be performed with the detector inlet within three inches of the surface (if possible) in parallel paths not more than 90 feet apart and along the gas transfer pathway of the collection system. The entire surface of the landfill to the limits of refuse will be traversed unless unsafe conditions are encountered. Readings will be taken every 30 seconds and only readings exceeding 1,000 ppmv will be recorded. Locations of these exceedences (if any) will be recorded on a site map. Any breaches in the landfill cover along the grid path will be monitored as well.

As stated in Rule 4642 Section 6.3.1 test frequency can be reduced to once per year if after two consecutive testing events there are no surface exceedences of 1000 ppm. Also note that a proposed amendment to Rule 4642 may change testing requirements of Rule 4642 (i.e., increase frequency of surface emissions testing to quarterly).

Reporting--

- Semi-Annual - After the monitoring event, a brief letter report will be prepared for submittal to the County. The report will detail equipment calibration procedures, sample locations and results of emissions testing along with any recommendations

for further action. Note that Rule 4642 requires that the County maintain and make the report (and all other Rule compliance records) available to the APCD upon request.

Task 3 – Routine Flare Emissions Testing and Reporting

Flare source tests are to be conducted on the North and South Flares in accordance with APCD Rule 4642 and the respective flare operating permits every 3 years. The last test and due dates are as follows:

	<u>Last Test Date</u>	<u>Test Due Date</u>
South Flare	June 1998	Currently Scheduled for June 2001
North Flare	June 1999	June 2002

Based on this information a North Flare source test is required during this contract period. A flare source test will be conducted on the North Flare in accordance with APCD Rule 4642 and the respective flare operating permit. SCS-FS will oversee the work.

Emissions of nitrogen oxides (No) and carbon monoxide (CO) will be quantified using either EPA methods 7E and 10 respectively, or California Air Resources Board (CARB) Method 100. The volumetric flow rate will be measured using CARB Methods 1, 2 and 3. Exhaust flow rate will be determined via EPA Method 19. The heating value of the process gas will be determined by ASTM Method D1826-88 or D3588. The VOC destruction efficiency will be determined using EPA Method 25.

The APCD will be notified at least 30 days in advance of the tests. Compliance plans for the source tests will be submitted to the agency 15 days prior to the work. A report summarizing the findings of the respective source tests will be submitted to the APCD and the County within 60 days of completion of the field work.

Task 4 – Routine Groundwater System Operations & Maintenance:

SCS-FS will implement the following routine operation, monitoring and maintenance program

Operation and Monitoring--

- Weekly/Monthly -
 - Compile system parameters (e.g., system effluent flow, line pressures, and valve positions).
 - Measure and log depth to water within the 12 extraction wells (Extraction Well Nos. EX-1 through EX-12).

-Inspect performance and adjust the wellhead extraction pump controllers.

-Approximately every 40 days carbon breakthrough sampling/testing will be performed.

Maintenance--

• Monthly -

-Clean and inspect the influent prefilter as needed

-Inspect the performance of self-cleaning filter

-Purge collected solids from within the sedimentation tank to the filter bed

-Inspect performance and calibrate the effluent flow meter, if required

-Maintain the air compressor; drain condensate, check/add oil, and note operation

• Semi-Annual -

-The air compressor systems will be checked and serviced by Associated Compressor, Inc.

Reporting--

SCS-FS will submit to the County a monthly letter report, which will contain a summary of site activities including maintenance and repair work, depth to water for wells EX-1 through EX-12, and a cumulative effluent graph. Repairs and/or system modifications will be recommended as required.

Task 5 – Routine Groundwater Environmental Monitoring

SCS-FS will perform groundwater monitoring in accordance with Central Valley California Regional Water Quality Control Board (CVCRWQCB) monitoring and reporting program (MRP) No. 5-00-087 as follows:

Groundwater Monitoring According to MRP Order No. 5-00-087

- Depth-to-groundwater measurements will be made and groundwater samples will be collected from each of the monitoring wells during the two semi-annual events (October 2001 and April 2002). Field parameters and monitoring parameters will be analyzed at the frequency specified in the new WDR's. There will be 5-year constituents of concern sampling in 2001. The results of the five-year constituents of concern sampling will be reported in the 2001 annual report, which is due January 15, 2002. In our proposal, we assume the five-year constituents of concern sampling will occur during the October 2001 sampling. In addition, sampling and analysis of Chromium VI is included in the Scope of Work. Chromium VI analysis has been added because it was found in the sampling results for 2000 and due to the increasing concern by the CVRWQCB with Chromium VI.
- To assess data quality, a duplicate sample will be collected from MW-4S and submitted for analysis. The duplicate sample will be analyzed for the same constituents as the primary sample. A travel blank and equipment rinsate blank will also be submitted for analysis.

GROUNDWATER TREATMENT SYSTEM SAMPLING

Semi-Annual Sampling

A groundwater extraction treatment system is currently in operation at the landfill. SCS-FS will collect three water samples from the treatment system during each semi-annual sampling round. The samples will be collected from the influent into the system, at a point midway through the system, and at the effluent point of the system.

Ongoing (40 day) Sampling

In addition to the semi-annual sampling, SCS-FS will also obtain samples from the three collection points at the treatment system. Sampling will occur every 40 days. Cost estimates assume that there will be 9 sampling events (3 samples per event) per year.

SURFACE WATER MONITORING ACCORDING TO MRP ORDER NO. 5-00-087

SCS-FS will collect a surface water sample at the landfill at the discharge from the siltation pond when discharge first occurs. Another sample will be collected after a storm event during the wet season. There will be 5-year constituents of concern sampling for the year of 2001.

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ANALYTICAL LABORATORY

BC Laboratory will provide the analytical testing of the collected samples for 2001/2002, with the exception of the 40-day treatment system samples, which will be analyzed by Curtis & Tompkins and the additional Chromium VI Samples, which will be analyzed by West Coast Analytical Services.

MONITORING REPORTS

At the end of the 2001 semi-annual monitoring round, a report will be submitted to Stanislaus County, which will describe monitoring activities and will present the analytical results of monitoring in tabular form. The first monitoring round results for 2002 will be reported in a semi-annual report. Each of the two reports is due to CVRWQCB 15 days after the end of each calendar semester. Both the semi-annual and annual reports will conform to the reporting requirements of 5-00-087. A draft copy of each report will be submitted to Stanislaus County for review. After receiving County approval, copies of the report will be forwarded to Stanislaus County and to CVRWQCB.

Analytical results collected from the treatment system in 2001 will be analyzed to assess the performance of the treatment system relative to decreasing constituent concentrations in groundwater. The assessment will be included in the 2001 annual report and the 2002 semi-annual report.

NPDES REPORT

Surface water analytical results for samples collected during 2001 will be assessed relative to historical data and regulatory thresholds for inclusion in the 2001 annual NPDES report. The NPDES report is due for submittal on July 1, 2001.

PROJECT SCHEDULE

Groundwater monitoring will be performed in April 2001 and October 2002. Surface water sampling will occur after the first storm and during a subsequent storm of the rainy season. Surface water will be sampled if any is present during the semi-annual trips to the landfill. The treatment system will be sampled every 40 days and in April 2001 and October 2002. The draft report from each monitoring round will be provided to Stanislaus County for review approximately eight weeks after the sampling date.

Task 6 - Non-routine Emergency Services

Non-routine unscheduled/emergency repair and maintenance services include events that require immediate response to protect life, property, the environment, or to restore system operations. These events may include, but are not limited to, the following:

- Emergency call-out by alarm systems (LFG and/or groundwater systems) or County personnel.
- Odor complaints
- Loss of gas flow or flare ignition
- Groundwater system liquid or air transmission line leaks
- Repair of main header lines (resulting in no gas flow to the BFS)
- Replacement of failed groundwater pump controllers
- Notification to APCD of system shutdowns

Response to the urgent nature of these items is such that they cannot be scheduled. SCS-FS will respond to these conditions, as needed, 24 hour per day, 7 days per week, 365 days per year. Non-routine unscheduled emergency services will only be performed subsequent to notification to and authorization from the County. At other sites, SCS-FS is pre authorized to respond to emergency call-outs as they occur. SCS-FS recommends a similar arrangement be preauthorized for the Geer Road landfill site. An SCS-FS Standard Fee Schedule is provided in Attachment B.

Task 7 - Non-Routine Scheduled Service

Non-routine scheduled maintenance consists of corrective repair or maintenance work identified during the routine site visits or by County personnel. Non-routine maintenance may include, but is not limited to the following:

- Remediating and retesting of leaks in excess of 1000 ppm of methane at landfill surface or gas transfer path
- Raising of wellheads, lateral, or header lines (LFG and/or groundwater systems)
- Repairing or replacing of non-functional condensate sump components, lateral, and header lines (LFG and/or groundwater systems)
- Replacing non-functional extraction or monitoring wells (LFG and/or groundwater systems)
- Assisting with APCD site inspections
- Repairing or replacing of non-functional groundwater extraction pumps, system components, lateral and header lines
- Carbon absorber back flushing, carbon replacement or sludge disposal

Mr. Ron Grider
April 30, 2001
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This work is essential for proper system operation; however, it is considered the type of work that can be scheduled to allow for procurement of materials, equipment, scheduling of personnel, etc. A not to exceed or lump sum quote shall be provided to the County by SCS-FS for non-routine scheduled maintenance work. Non-routine scheduled maintenance work will only be performed subsequent to notification to and authorization from the County. An SCS-FS Standard Fee Schedule is provided in Attachment B.

Non-Routine scheduled and emergency services will be performed under a separate County Purchase Order or Contract.

ASSUMPTIONS AND CONDITIONS

Our Scope of Work and Compensation have been developed based on the following Assumptions and Conditions:

1. SCS-FS will be responsible for the LFG collection system operation, monitoring, and maintenance as described in this proposal. The Geer Road LFG system consists of 63 vertical extraction wells, 11 condensate sump/pumps, 37 multi-level perimeter gas monitoring probes, 2 Lamson blowers, 2 Hauch blowers, 1 John Zink flare, 1 McGill flare, 1 condensate injection system, appurtenant electrical panels and controls, and above and below grade lateral and header lines.
2. SCS-FS will be responsible for the Groundwater (GW) pump and treatment system operation, monitoring and maintenance as described in this proposal. The Geer Road GW system consists of 12 extraction wells and pumps, filtration system, air compressor systems, appurtenant electrical panels and controls, above and below grade lateral and header lines.
3. The proposed scope of work and cost estimate is based on the collection of groundwater samples from the existing 19 wells, including a duplicate sample, travel blank and equipment rinsate blank two times a year. This proposed detection monitoring is based on the requirements of Monitoring and Reporting Program 5-00-087.
4. Stanislaus County will perform other monitoring and reporting specified in Monitoring and Reporting Program 5-00-087. If Stanislaus County wishes to provide Kleinfelder with this data, it can be incorporated into Kleinfelder's reports. This incorporation may result in additional costs depending on the format provided and the format required for the reporting.

5. Water generated during the purging and sampling will be discharged to the ground surface.
6. The on-site automatic dialer alarm system will immediately notify SCS-FS of a Blower/Flare Station shutdown. Response to shutdowns will be performed under the non-routine emergency services under a separate County purchase order or contract.
7. All routine operation, monitoring, and maintenance can be completed by a one man field crew; all monitoring and adjustment of extraction wells can be accomplished without entering vaults greater than 4 feet deep.
8. This bid price is valid for a period of 45 days from the date of this submittal.
9. SCS-FS will not take responsibility for the overall quality of the gas collected from the LFG control system with regard to trace components.
10. SCS-FS takes no legal responsibility for any of the potential hazards associated with the LFG condensate.
11. Meetings with APCD or other regulatory bodies are considered non-routine work.
12. The routine portion of this proposal does not include cost for repair and/or replacement spare parts or materials (e.g., propane and chart paper).
13. The Client is responsible for ensuring that SCS-FS and/or appropriately qualified County personnel are the only parties designated to operate or adjust the subject facilities.
14. The Client provides unrestricted site access and workspace for personnel, equipment, and materials to enable completion of work.
15. The work will be performed in OSHA Level D Protection. Any additional Health and Safety requirements may cause a change in our price.
16. At no time shall the title to any hazardous substances, solid wastes, petroleum contamination, or other regulated substances pass to SCS-FS, nor shall any provision of an ensuing Agreement be interpreted to permit SCS-FS to assume the status of a "generator", "transporter", or "treatment, storage, or disposal facility" under state or federal law.

17. The Client will provide SCS-FS, prior to start of work, available information regarding manufacturer's operation and maintenance documents, design engineer operation and maintenance requirements, and any other applicable regulatory agency operating requirements.
18. Laboratory services for work other than the Task 3 and 5 (if required) are by others.
19. SCS-FS shall be responsible for providing the necessary portable field instrumentation and small hand tools required to support the performance of the Scope of Services.
20. The costs for Task 2 and 3 assume that each surface or flare emissions testing event (two consecutive days) can be completed in one mobilization. Additional costs may be required if meteorological conditions or other factors outside of SCS-FS control requires more than one mobilization.
21. Repairs of system components or of the landfill cover system are not covered in this bid. If conditions are observed which contribute to excessive LFG emissions at the landfill surface or from the flare exhaust, a separate price for repairs can be provided. Our services for Task 3 (source test) exclude any modifications or repairs to the flare or LFG system in the event exhaust emissions exceed Rule 4642 thresholds.
22. A protocol for Task 2 surface emissions testing has been previously approved by the APCD and can be used for this assignment. Any future change in regulatory requirements could cause an increase in our price.
23. Our bid excludes engineering design and/or permitting services.
24. For the purpose of flare source testing (Task 3) the Client will ensure at both flares that adequate sampling ports (pre-cleaned), electrical power (20-amp) and boom lift access to sample ports is available.
25. The costs for Task 4 do not include carbon replacements.
26. Automobile mileage cost is 32.5 cents per mile. Pick-up and tool truck mileage is 45 cents per mile or \$75 per day.

Mr. Ron Grider
April 30, 2001
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COMPENSATION

Task 1, Routine O&M/reporting, as described in the Scope of Work, will be performed on a time and materials basis not to exceed amount of \$2,381.08 per month. First year contract total not to exceed amount will be \$28,573.

Task 2, LFG Surface Emissions Testing/reporting, as described in the Scope of Work, will be performed on a time and materials basis total not to exceed amount of \$1,891.50 per event. First year contract total not to exceed amount will be \$3,783.

Task 3, Flare Emissions Testing and Reporting, as described in the Scope of Work, will be performed on a time and materials basis not to exceed amount of \$7,290.

Task 4, Routine Groundwater system operations and maintenance, as described in the Scope of Work, will be performed on a time and materials basis total not to exceed amount of \$1,727.50 per month. First year contract total not to exceed amount will be \$20,730.

Task 5, Groundwater Environmental Monitoring, as described in the Scope of Work, will be performed on a time and materials basis for the amount of \$105,967.

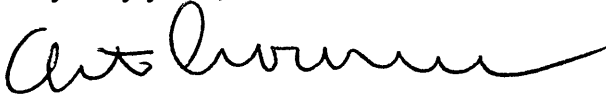
Cost for Tasks 1 through 5 during the contract period of July 1, 2001 through June 30, 2002 will be a total not to exceed amount of \$166,342.

A spreadsheet detailing the total estimated costs for Tasks 1 through 5 is included as Attachment A to this proposal.

Mr. Ron Grider
April 30, 2001
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SCS-FS appreciates the opportunity to submit this proposal. We are committed to providing the County the best service. Should you have any questions, do not hesitate to contact either of the undersigned.

Very truly yours,



Anton Z. Svorinich
Project Manager



Ken Ayster
Regional Manager
SCS FIELD SERVICES, INC.

Attachment

AZS: dfc
07198080.Contract Extension 2001

ATTACHMENT A
COST SPREADSHEET

**ATTACHMENT A
 COMPENSATION FOR POST CLOSURE
 OPERATIONS, MONITORING AND MAINTENANCE SERVICES AT THE GEER ROAD LANDFILL
 JULY 1, 2001 THROUGH JUNE 30, 2002**

11-May-01

SCS-FS TEAM PERSONNEL	Hours by Task					Total	Rate, \$/hr	Amount, \$
	Task 1	Task 2	Task 3	Task 4	Task 5			
Project Manager	24	4	4	24	24	80	95	7,600
Project Superintendent	48	4	4	24	12	92	68	6,256
Sr. Technician	312	40	16	208	32	608	52	31,616
Secretary/Admin.	48	6	2	24	6	86	42	3,612
Total Personnel (Hours):	432	54	26	280	74	866		
Total Personnel Per Task (\$):	23,784	2,984	1,568	15,736	5,012	49084	Total, SCS Labor:	\$49,084
OTHER DIRECT COSTS (ODC)								Amount, \$
Misc. Field Supplies	140	100	25	50	50			365
H&S Equipment, Supplies	98	22	10	100	25			255
Postage, Freight, Fax, Phone	500	50	10	250	25			835
Reproduction/Printing	100	50	10	50	90			300
Associated Compressor Inc.	1,000	0	0	2,000	0			3,000
Best Environment Inc.	0	0	4,920	0	0			4,920
Subtotal ODC (\$):	1,838	222	4,975	2,450	190		Subtotal ODC:	\$9,675
Administration @ 12% ODC (\$):	221	27	597	294	23		Administration:	\$1,161
Tool Truck	1950	150	150	1950	375			4,575
Field Equipment Rental	780	400	0	300	0			1,480
Kleinfelder Groundwater Services	0	0	0	0	100,367			100,367
Total Cost per Task (\$):	\$ 28,573	\$ 3,783	\$ 7,290	\$ 20,730	\$ 105,967		TOTAL BUDGET ALLOCATION:	\$ 166,342

- Task 1: Routine LFG System Operation, Monitoring and Maintenance
- Task 2: LFG Surface Emissions Testing/Reporting
- Task 3: Flare Emissions Source Testing/Reporting
- Task 4: Routine Groundwater System Operation, Monitoring and Maintenance
- Task 5: Routine Groundwater Environmental Monitoring

**Table 2
2001/2002 Monitoring Schedule
Geer Road Landfill**

Staff Level		Senior	Project	Prof.	Tech	Data Entry	Draft	WP	OIC	Analytical Lab	Total
Staff Service Code		P5	P3	P1	T2	T0	C1	A1			
Task #	Task Name \$/hr.	\$ 133	\$ 119	\$ 81	\$ 78	\$ 57	\$ 67	\$ 57			
1	K-Groundwater Sampling, (October 2001)	3		12	60	20			\$ 1,500	\$ 33,086 ^{B,WCAS}	\$ 41,777
2	K-Groundwater Sampling, (April 2002)	3		8	54	16			\$ 1,500	\$ 9,720	\$ 17,391
3	K-Treatment System Sampling, (October 2001)				3				\$ 40	\$ 636 ^B	\$ 910
4	K-Treatment System Sampling, (April 2002)				3				\$ 40	\$ 636 ^B	\$ 910
5	SCS-40 Day Treatment System Sampling (2001/2002)									\$ 20,137 ^C	\$ 20,137
6	K+SCS-Surface Water Sampling (2001/2002)				2				\$ 20	\$ 292 ^B	\$ 468
7	Annual Report (2001)	8	35	15		10	16	14	\$ 400		\$ 9,284
8	Semi-annual Report (2002)	8	30	10		4	8	10	\$ 200		\$ 6,978
9	NPDES Annual Report (2001)	4	12	4				4			\$ 2,512
Total											\$ 100,367

Fee Schedule = 00Z (2000 Fee Schedule with 5% discount)

^B Analytical services provided by BC Laboratory

^C Analytical services provided by Curtis & Tompkins with 24 hr turn-around-time

^{WCAS} Analytical services provided by West Coast Analytical Service

K=Kleinfelder

SCS=SCS Field Services



ATTACHMENT B
STANDARD FEE SCHEDULE

SCS FIELD SERVICESSCS FIELD SERVICES, INC.
STANDARD FEE SCHEDULE
(Effective July 1, 2001, through June 30, 2002)

<u>Technical Field Personnel</u>	<u>Rate/Hour</u>
Laborer	32
Technician	38
Fusion Technician	45
Equipment Operator	50
Plant Operator	52
Sr. Technician/Foreman	52
Superintendent	68
Sr. Superintendent	82
<u>Management/Support Personnel</u>	<u>Rate/Hour</u>
Secretarial	42
Purchasing Administrator	44
Project Agent	62
Project Manager	95
Regional Manager/Project Director	100

GENERAL TERMS:

1. Labor rates are in effect until June 30, 2002. Any work performed after that date is subject to a new Standard Fee Schedule.
2. The above rates include salary, overhead, and profit. Other direct charges, such as subcontractors, construction equipment, materials, air travel, freight, auto rental, permits, fees, taxes, tolls, and other costs incurred for the project will be billed at cost plus 12 percent. (Automobile mileage cost is \$0.35 per mile. Truck mileage is \$0.45 per mile.)
3. Invoices will be prepared monthly for work in progress, unless otherwise agreed. Invoices are due and payable upon receipt. Any invoices not paid within 30 days of receipt are subject to a service charge of 1.5 percent per month on the unpaid balance.
4. Payment of SCS Field Services, Inc. invoices for services performed will not be contingent upon the Client's receipt of payment from other parties. Client agrees to pay legal costs, including attorney's fees, incurred by SCS Field Services, Inc. in collecting any amounts past due and owing on Client's accounts.



5. Standard billing rate for Principals is \$170 per hour, for President, \$130 per hour, and for Vice President, \$115 per hour. For special situations, such as expert testimony or international assignments, hourly rates will be on an individually negotiated basis.
6. On short term or one time assignments, services which require less than eight (8) hours, but more than four (4) hours will be billed at eight (8) hours. A minimum of four (4) hours will be billed for any service requested which is not conducted in conjunction with an on-going project (including call-outs after normal work hours) and will be charged portal-to-portal, from SCS Field Services, Inc. offices.
7. For operation, construction, and/or repair work performed on weekends and/or nights (if work exceeds 8 hours in a day), the above rates will be marked up 40 percent. For work performed on Company recognized holidays or beyond 12 hours in a day, the above rates will be marked up 70 percent.
8. These rates are based on non-union, non-prevailing wage scales.
9. For long-term on-site project assignments, rates may be discounted on an individually negotiated basis. Long-term on-site personnel are permitted to return home every four (4) weeks. Travel expense shall be invoiced to Client at cost plus 12 percent.
10. Costs for equipment and analysis will be billed in accordance with the rates contained on SCS Field Services, Inc., Standard Fee Schedule for Equipment and Analysis.

SCS FIELD SERVICESSCS FIELD SERVICES, INC.
STANDARD FEE SCHEDULE FOR EQUIPMENT AND ANALYSIS
(Effective July 1, 2001 through June 30, 2002)

GEM 500 Gas Analyzer	\$ 60/day
GA-90 Gas Analyzer	\$ 40/day
Gas-Tech IP204 Gas Analyzer O ₂	\$ 15/day
Gas-Tech NP204 Gas Analyzer CH ₄	\$ 35/day
Gas-Tech GX3N Gas Analyzer CH ₄ /O ₂	\$ 45/day
Gas-Tech 1939-OX Hydrocarbon Surveyor CH ₄ /O ₂	\$ 40/day
Gas-Tech 3220-HS Gas Analyzer O ₂ /H ₂ S/CH ₄	\$ 45/day
Gas-Tech GT-302 Gas Analyzer O ₂ /H ₂ S	\$ 45/day
Gas-Tech GT-402 Gas Analyzer O ₂ /H ₂ S/CO ₂	\$ 45/day
Gas-Tech Tritector Gas Analyzer O ₂ /H ₂ S/Combustibles	\$ 45/day
Magnehelic Pressure Set	\$ 15/day
Kurz Air Velocity Meter	\$ 35/day
Digital Readout Thermocouple	\$ 25/day
Gastech Detector Tubes	\$ 5/each
Metal Bellows Vacuum Pump	\$ 35/day
Bar punch	\$ 10/day
Fisher M95 Metal Detector	\$ 30/day
Dewatering Pump (Trash Pump)	\$ 45/day
Generator Set (110/220 VAC)	\$ 45/day
OVA Flame Ionization Detector	
-Daily Rate	\$100/day
-Weekly Rate	\$400/week
-Monthly Rate	\$1200/month
Hnu Tip Vapor Analyzer	
-Daily Rate	\$ 75/day
-Weekly Rate	\$300/week
-Monthly Rate	\$900/month
Air Sampling Station	
-Daily Rate	\$ 40/day
-Weekly Rate	\$175/week
Weather Station	
-Daily Rate	\$ 40/day
-Weekly Rate	\$175/week
Portable Field Gas Chromatograph	
-Daily Rate	\$100/day
-Weekly Rate	\$400/week



Transit

-Daily Rate	\$ 15/day
-Weekly Rate	\$ 75/week
-Monthly Rate	\$250/month

Level

-Daily Rate	\$ 10/day
-Weekly Rate	\$ 50/week
-Monthly Rate	\$150/month

Pipe Laser

- Daily Rate	\$ 45/day
- Weekly Rate	\$195/week
- Monthly Rate	\$575/month

Trailer Mounted Water Sampling Equipment

- Weekly Rate	\$800/week
- Monthly Rate	\$3,000/week

Mobile Blower/Flare Station

-Daily Rate	\$200/day
-Weekly Rate 24 hrs/day, 7 days/week	\$500/week
-Monthly Rate	\$3,000/month

PAS 3000 Air Sampling Pump \$ 25/day

Non-Contaminating Air Sampling Pump \$ 25/day

Fyrite Carbon Dioxide Indicator \$ 15/day

Interface Probe \$ 50/day

Submersible Pump \$ 35/day

Water Level Indicator \$ 25/day

Teflon Well Bailer \$ 10/day

Minuteman Drill Rig (excluding operator) \$50/hour

Tool/Pick-Up Truck \$75/day

No. 28 P.E. Fusion Machine (2" -8") \$150/day

No. 14 P.E. Fusion Machine (1"-4") \$ 75/day

412 Fusion Machine (4"-12") \$225/day

618 P.E. Fusion Machine and Tool Truck (6" -18") \$300/day

Sidewinder Fusion Machine \$100/day

Air Compressor \$ 35/day

Arc Welder \$ 60/day

Generator (5000 Watt) \$ 60/day

Isolation Pinch Off Tools \$ 60/day

Leister Extrusion Welding Gun \$ 60/day

Plate Compactor \$ 50/day

Safety Equipment

-Tyvek Suit - each \$ 10/ea

-Polyethylene suit - each \$ 15/ea

-Nitrile gloves - per pair \$ 10/ea

-PVC Gloves - per pair \$ 10/ea

-Rubber booties - per pair \$ 10/ea

-Organic Vapor Cartridges - per pair	\$ 15/ea
-Organic Vapor/Acid Cartridges - per pair	\$ 20/ea
-Cartridges pre-filters - per pair	\$ 10/ea
-Full face respirator - each	\$ 20/day
-Half face respirator - each.....	\$ 15/day
-Ventilator/manhole blowers	\$ 20/day
-Parachute harness.....	\$ 5/day
-Tripod	\$ 30/day
-SCBA.....	\$ 30/day

General Terms:

1. Rates are in effect until June 30, 2002. Any work performed after that date will be subject to a new Schedule of Fees.
2. Equipment usage rates are exclusive of freight charges to and from the project site. Freight is an additional expense chargeable to the client.
3. Rates for mobile blower/flare stations are exclusive of expenses for mobilization and demobilization, electric line installation, electricity, generators, fuel or permits or weekly routine operation and maintenance. These expenses are charged to the client separately.
4. Rates for pressure and flow measurement devices cover all such devices used at the site. For example, if 3 magnehelics and 1 manometer are all used for pressure measurement one day at one site, the total charge would be \$15/day.
5. Shipping, supplies, equipment rental, materials, vehicle mileage, and other non-labor equipment costs or direct costs are billed at cost plus 12 percent.
6. Automobile mileage cost is \$0.35 per mile; pick-up truck mileage is \$0.45 per mile.
7. Equipment rented will be charged portal-to-portal from SCS Field Services, Inc. offices. Renter is responsible for return charge.