

APPROVAL 	REQUEST FOR COUNCIL ACTION	MEETING DATE 8/7/12
REPORTS & RECOMMENDATIONS	Quarry Monitoring Proposals: Recommendation from Work Group on Consultant Selection and Staff Recommendations For Contract Development	ITEM NUMBER G, 6,

1. **Quarry Monitoring Services RFP Proposal Review and Consultant Recommendation:** Attached please find a memo relaying the recommendation of the staff work group that evaluated the consultants who submitted proposals for quarry monitoring services. In summary, the work group unanimously recognized Stantec as the consultant best suited to provide quarry monitoring services, but also recommends that SCS BT Squared is competent and capable of performing quarry monitoring should a satisfactory contract not be worked out with Stantec.

2. **Recommendations for Contract Development:** As evident in the attached memo, although two qualified contractors were identified, both submitted project costs that significantly exceeded the appropriated resources: \$159,000 and \$91,807 versus approximately \$42,000. It is important to note that staff anticipated the possibility of proposed costs exceeding the budget when drafting the RFP, since the RFP included a significantly enhanced level of monitoring relative to blasting, air quality, and site visits. As such, the RFP specifically requested that any consultant responding to the RFP provide detailed cost information and also identify cost-saving measures which the consultant believed would be reasonable in light of the services being requested by the City. The City, therefore, is now in a much better position to identify the breadth of services that could be performed for the budgeted amount or, conversely, to identify the potential cost of a revised scope of services.

In the interviews, both consultants indicated that they would still be interested in participating if the scope of services needed to be reduced to levels that aligned with appropriated resources. Both also provided additional suggestions for ways to reduce costs.

In order to move forward staff needs further guidance or direction. **Staff recommends a motion to direct staff to attempt to negotiate a revised scope of services with Stantec, and, absent success, with SCSBT Squared, unless the Common Council is prepared to commit significantly more resources to contract for the enhanced service levels initially identified in the RFP.** If so directed, staff would evaluate the cost saving recommendations and cost components of the various services and attempt to negotiate a contract with the best balance between cost and an appropriate scope of services. To aid in this process staff would appreciate any input on the Common Council members' opinion as to what elements of the proposed monitoring are of most and least importance to the Common Council and to the potential use of City staff to defer contracted costs.

COUNCIL ACTION REQUESTED

Motion to direct staff to finalize a contract with Stantec for the full scope of services as identified in the RFP and direct the Finance Director to recommend the necessary budget modification.

Or

Motion to direct staff to attempt to negotiate a contract and revised scope of services with Stantec, and, absent success, with SCSBT Squared attempting to achieve the best balance between cost and an appropriate, reduced scope of services.



MEMORANDUM: FROM PLANNING DEPARTMENT

DATE: July 31, 2012

TO: Mayor Taylor
Common Council

FROM: Joel Dietl, Planning Manager 
Mark Lubberda, Director of Administration 

SUBJECT: Request for Proposals for Quarry Monitoring Services,
Staff Workgroup Recommendations

INTRODUCTION

At its April 17, 2012 meeting, the Common Council moved to “authorize the issuance and distribution of the Request for Proposals for Quarry Monitoring Services for the City of Franklin and including any technical corrections and clarifications and direct staff to carry out the process as described therein.” The Request for Proposals (RFP) was subsequently completed and published in various news media May 17, 2012. In response to the RFP, the following three consultants submitted proposals:

- Aquifer Science & Technology (a division of Ruekert/Mielke, Inc.);
- SCS BT Squared; and
- Stantec Consulting Services Inc.

Upon initial screening of these proposals, all three were determined to meet the submittal requirements of the RFP. However, shortly after submittal, Mr. Bill Mielke of Ruekert/Mielke Inc. withdrew its proposal due to staffing changes at Aquifer Science & Technology which would affect their ability to provide quarry monitoring services in the manner proposed by their submission. A copy of the two remaining proposals is included under separate cover for your convenience.

REVIEW OF PROPOSALS/CONSULTANT INTERVIEWS

Pursuant to the RFP, a Staff Workgroup (comprised of Director of Administration Mark Lubberda, City Engineer Jack Bennett, Fire Chief James Martins, Planning Manager Joel Dietl, Plan Commissioner John Michlig, and citizen Marge Shore) was organized to review the proposals, to interview consultants, and to forward a recommendation to the Common Council.

During June and July 2012, the Staff Workgroup reviewed both proposals, prepared supplemental questions for both consultants, and interviewed both consultants. The consultant’s responses to the supplemental questions are also attached for your convenience.

STAFF WORKGROUP RECOMMENDATIONS

1) Based upon the information provided in the two proposals and obtained in the two interviews, the Staff Workgroup unanimously recommends selection of Stantec Consulting Services Inc. as the consultant best suited to provide quarry monitoring services to the City of Franklin.

The Workgroup believed Stantec exhibited more and more closely related experience, as well as greater knowledge in the subject area, particularly with regard to air quality monitoring. In making its recommendation, however, the Staff Workgroup recognizes that Stantec's proposed project cost of \$159,000 is significantly higher than the approximately \$42,000 which can be assessed to the quarries for this purpose pursuant to their respective Planned Development Districts.

2) As such, the Staff Workgroup further recommends that should an acceptable professional services agreement with Stantec not be reached the other consultant, SCS BT Squared, is competent and capable of completing the desired scope of services.

Having a second, viable alternative may be important in that SCS's proposed project cost of \$91,807 is significantly closer to the budgeted amount. In fact, the Staff Workgroup consensus was that while SCS's air quality monitoring experience was not as thorough as Stantec's, its blast monitoring experience was comparable to Stantec's and its proposed project cost, identified cost-saving measures, and flexibility might make it more likely to negotiate a contract with the best balance between cost and a revised scope of services.



Stantec

Stantec Consulting Services Inc.
12075 Corporate Parkway, Ste 200
Mequon, Wisconsin 53092
Tel: (262) 241-4466
Fax: (262) 241-4109

June 7, 2012

Office of the City Clerk
City of Franklin
9229 West Loomis Road
Franklin, Wisconsin 53132

Proposal: Quarry Monitoring Services
Proposal No.: 393095

Dear Sir/Ma'am:

Thank you for the opportunity for Stantec Consulting Services, Inc. (Stantec) to assist the City of Franklin in completion of the Quarry Monitoring Services. To meet the project requirements, Stantec has chosen to partner with Giles Engineering Associates, Inc. (Giles). This partnership between Stantec and Giles provides the City with two local professional firms more than capable of meeting or exceeding all project requirements.

Cost Saving Options

Please note that the City has a variety of options that can reduce costs pertaining to the scope of work of the attached proposal outlined in the Request for Proposals (RFP). Stantec has outlined at least nine (9) different ideas (Proposal Section 1.2) that when implemented will still allow completion of project objectives. We strongly encourage these options be considered, and are more than willing to meet with City officials to discuss these options and corresponding potential costs savings in detail.

Source Documents

This submittal was prepared based on the following information provided by the City:

- Advertisement for RFP for Quarry Monitoring Services, City of Franklin (May 16, 2012)
- RFP for Quarry Monitoring Services for the City of Franklin (issued May 17, 2012)
- City of Franklin Planned Development District (PDD) Ordinances for two quarries as part of RFP
- Emails from Lisa Huening, City of Franklin (June 1, 2012, 8:54/9:10 am; June 6, 2012 at 7:45 am)

Introduction of Firms

Stantec Consulting Services, Inc.

Stantec, founded in 1954, provides professional consulting services in planning, engineering, architecture, interior design, landscape architecture, surveying, environmental sciences, project management, and project economics for infrastructure and facilities projects. With over 11,000 employees, we support public and private sector clients in a diverse range of markets at every stage, from the initial conceptualization and financial feasibility study to project completion and beyond. Stantec is **One Team** providing **Infinite Solutions**. Stantec has over 170 offices in North America, eight (8) of which are in Wisconsin. The Wisconsin offices are made up primarily of former Bonestroo, Inc. offices (acquired by Stantec September 3, 2011) and Natural Resource Consulting offices (acquired by Stantec July 30, 2010).

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Proposal for: Quarry Monitoring Services

Giles Engineering Associates, Inc.

Giles was founded in 1976 with the specialized purpose of serving private, institutional and municipal clients throughout the United States. We are proud to have served all industries including retail, commercial, industrial, residential, governmental, and institutional over our 36 year history and it is important to note that we have operated continuously, without interruption, since inception. Giles performs geotechnical engineering, environmental consulting, construction testing, geothermal and subcontract drilling and forensic/failure investigations. We have performed seismic evaluations and forensic evaluations related to seismic and liquefaction concerns throughout many parts of the United States, including the Milwaukee area.

Statement of Project Understanding

Stantec and Giles understands that the objective of the project is to conduct monitoring activities to determine and verify that the Vulcan Materials Company and Payne & Dolan, Inc. (d/b/a: Franklin Aggregates) limestone quarries located in Franklin, Wisconsin are operating in compliance with the parameters defined in separate PDD Ordinances. Each PDD places limits on vibration (ground motion) from blasting, air emissions (particulates), and other issues that affect the health, welfare, and quality of life of the citizens of Franklin.

Approach to Scope of Work and Management

Stantec's approach to this project is fairly straightforward. Our initial goal is to put together the best team of professionals available in the area. Based on the staff we have assigned to this work, and the subcontracted team we have created with Giles, we believe we have done just that. Not only do we have professionals with significant seismic, air monitoring, and quarry operations background, but these same staff also have on-going project involvement with several frac sand mining and processing clients in Wisconsin, which ensures cutting edge regulatory and best management practice knowledge.

Our second goal was to create a straightforward teaming arrangement between Stantec and Giles to ensure smooth project management and execution of the scope of work. The separation of the major sections of work in the following functional areas made this relatively easy.

- Blast monitoring, Data Collection, and Evaluation
- Air Quality Monitoring, Data Collection, and Evaluation
- Quarry operations Monitoring and Reporting by Direct Observation
- Additional PDD Compliance
- Reporting Requirements and Coordination with City Staff

Giles will perform all functional aspects of the work pertaining to blast monitoring, while Stantec will perform the remainder. The two firms have already created an FTP site to share files and store documents, which has ensured a smooth response to the RFP; we anticipate a similar FTP site for the project itself. Although Stantec will retain the overall Project Management role, Giles will have authority and is encouraged to contact the City Planning Manager directly upon becoming aware of any blast event which exceeds the allowances of a PDD. The combined goal of the two firms is simple, to act as one and provide seamless service to the City.

The key to the successful completion of the project scope of work will be detailed planning and communication. The scope is thoroughly described in our proposal itself, and Appendix C to the proposal provides an example of the detail we have already, and will continue to, put into this important project. The need for sufficient communication between all parties cannot be overstated. Our goal is to think ahead of things, to answer questions and develop ideas before they come up at a public meeting, or to develop cost

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Proposal for: Quarry Monitoring Services

saving suggestions ahead of time before too much work is executed. In our proposal, we have already outlined several different ways the City may consider changing the scope of work while still achieving project objectives.

Miscellaneous

Both the project team from Stantec and Giles are local firms capable of handling any task and meeting any time requirement. We have both served the needs of our clients, from coast to coast, and have witnessed the implementation of new, and often efficient, methods of communication and the unintended consequence of impersonal service. If chosen to work for the City on this project, assigned Stantec and Giles staff will remain personally available 24 hours a day through whatever means of communication preferred by the City.

Stantec and Giles conducts lawful employee screening for all applicants within our company. All current, new, and future employees have been subject to a lawful and extensive background investigation. Such screening includes questions on the employment application, utilizing national companies versed in completing comprehensive background checks for criminal activities, a review of a national database for persons convicted of a crime involving sexual malfeasances (in addition to those performed by independent agencies), and a review and inquiry into positions involving professional registration (usually law, professional engineering, or commercial driving (CDL)). Please note that both Stantec and Giles perform work for many State, Federal (the US Defense Department, Pentagon, etc.), and municipal agencies. Such clients require considerable investigation into all employees accessing the project site; especially when those projects may involve entrance to private homes. Stantec and Giles are proud to be pre-qualified for such critical projects.

Lastly, both Stantec and Giles actively recruit and promote a diverse work employment. Discrimination or intolerance within either of our workplaces will not be tolerated and we are proud to each have effective programs maintaining and promoting diversity and policies of equal opportunity or non-discrimination based on race, color, religion, sex, age, national origin, ancestry, creed, citizenship, marital status, sexual orientation, physical or mental disability, veteran status, whistleblower status, gender identity and/or expression. However, Stantec and Giles do ensure that each employee is a lawful citizen or has the legal right to work within the United States.

The team of Stantec and Giles looks forward to assisting the City in completion of this important monitoring project. Please contact Mike Roznowski at 920.592.8400 if you have any questions.

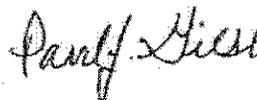
Respectfully,

STANTEC CONSULTING SERVICES INC.

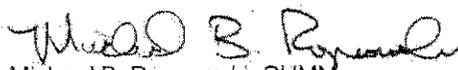


Rick Schmidt, PE
Senior Associate

GILES ENGINEERING ASSOCIATES, INC.



Paul J. Giese, PE
Geotechnical Division Manager



Michael B. Roznowski, CHMM
Associate, Industrial Team Leader

Enclosure – Proposal



City of Franklin

A Thriving Community in Southeastern Wisconsin

Quarry Monitoring Services

PROPOSAL #393095

City of Franklin
Office of the City Clerk
9229 West Loomis Road
Franklin, Wisconsin 53132

June 7, 2012

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1.0 WORK PROGRAM

Stantec Consulting Services, Inc. (Stantec) is excited to assist the City of Franklin in completion of the Quarry Monitoring Services. To meet the project requirements, Stantec has chosen to partner with Giles Engineering Associates, Inc. (Giles). This partnership between Stantec and Giles provides the City with two local professional firms more than capable of meeting or exceeding all project requirements.

Stantec and Giles understand that the objective of the project is to conduct monitoring activities to determine and verify that the Vulcan Materials Company and Payne & Dolan, Inc. (d/b/a: Franklin Aggregates) limestone quarries located in Franklin, Wisconsin are operating in compliance with the parameters defined in separate Planned Development District (PDD) Ordinances. Several maps showing the location of these quarries and the adjacent area are provided in Appendix A. Each PDD places limits on vibration (ground motion) from blasting, air emissions (particulates), and other issues that affect the health, welfare, and quality of life of the citizens of Franklin.

Stantec's understanding regarding the scope of work is based on that which is outlined in the RFP and further explained in several emails received from the City. The objective of the monitoring activities is to determine if the two quarries are in compliance with the operation parameters defined in the PDD agreements. In order to accomplish this, the major sections of work include the following:

- Blast monitoring, Data Collection, and Evaluation
- Air Quality Monitoring, Data Collection, and Evaluation
- Quarry operations Monitoring and Reporting by Direct Observation
- Additional PDD Compliance
- Reporting Requirements and Coordination with City Staff

1.1 CITY'S STANDARD SCOPE OF WORK

A summary of our understanding of each of these five tasks is provided below. Appendix C provides a much more detailed breakdown of each task, including a large number of subtasks, including a breakdown of the anticipated hours of staff effort dedicated to complete the scope of work.

Task 1 - Blast Monitoring, Data Collection, and Evaluation

Giles Engineering Associates, Inc., as a subcontractor to Stantec, will assist in the completion of the following scope of work:

- Review of Blasting Reports
 - Obtain blasting records from quarry personnel on a monthly basis;
 - Review the blasting records obtained for compliance with the criteria and standards of the PDD;
 - Compare the blasting records with the independent blasting records obtained from the fixed locations and the mobile locations described below; and
 - Prepare reports at time intervals requested by the City which will provide a summary of the quarry blasting reports and evaluation of the results relative to the requirements of the PDD.

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- Fixed-Location Blast Monitoring
 - Place the seismograph (City owned or Giles owned) at the City-established blast monitoring sites or vaults;
 - Maintain the seismograph and battery source (if one) at least once per week during the work week (Monday through Friday);
 - Perform data collection (download) at each week;
 - After data collection at a given location and in coordination with City staff, move the seismograph to a different vault site at least every third week;
 - Evaluate blast data; and
 - Prepare reports at bi-monthly intervals requested by the City which will provide a summary of the fixed-location blast monitoring and evaluation of the results relative to the requirements of the PDD.

- Mobile Location Blast Monitoring
 - Place a portable seismograph (Giles owned) at up to twenty locations or placements per year (average two locations per month from March to October, and one location per month from November through February);
 - Maintain the seismograph and battery source (if one) at least once per week during the work week (Monday through Friday);
 - Monitor at least one week of activity at each mobile location, unless otherwise approved by the City;
 - Download collected blast-monitoring data at least once per month;
 - Seismograph will be positioned at a nearby residential property, upon the resident's permission and execution of waiver obtained by the City, or within the right-of-way, or other location, upon approval of the City;
 - Giles proposes the following methodology for securing and placing the seismograph at such residential locations:
 - Coordinate with City personnel the required residential location for placement of the mobile seismograph;
 - Communicate with the residential property owner via telephone to introduce ourselves and coordinate a mutually agreeable time to meet on-site for seismograph placement;
 - Discuss with residential property owner a mutually agreeable location for placement of the seismograph and discuss expected protocol to avoid damage to the seismograph;
 - Communicate scheduling of Giles personnel to perform on-site maintenance of the seismograph and the battery source during the course of the monitoring period; and
 - Communicate scheduling of Giles personnel to download blast monitoring data and removal of the seismograph from the site.
 - Perform a minimum of two side-by-side tests at each quarry per year for the purpose of confirming that the City and quarries' seismographs are obtaining similar results. At least three months will pass between the tests at each quarry;
 - Evaluate the results of the side-by-side tests to determine if the tests yield similar results. If tests determine that similar results are not being obtained, Giles may perform additional tests to reconcile or resolve any deviation between devices;
 - Perform additional calls for seismograph services or placement, beyond that described above, in accordance with City requests. It is understood that City staff will be responsible for identifying the residential properties (with recommendations from Giles and taking into consideration complaints, comments, and requests received from area residents) and for obtaining executed waivers;
 - Prepare reports at time intervals requested by the City which will provide a summary of the mobile-location blast monitoring and the side-by-side tests, and evaluation of the results relative to the requirements of the PDD; and
 - If a quarry is found to be failing to meet the standards of the PDD, significantly more blast monitoring trips or occurrences may be required.

Task 2 - Air Quality Monitoring, Data Collection, and Evaluation

Stantec will conduct air quality monitoring for particulate matter (PM) with diameter of 10 micrometers or less (commonly referred to as PM10). Samples will be obtained in the following fashion:

- Using a Stantec provided portable high-volume air sampler, properly calibrated and designed to meet EPA requirements.
- Sampler will require direct access to a power source, provided and/or arranged by the City and /or nearby residents or businesses (i.e., these types of sampling devices do not run on battery-supplied power).
- Conducted over six (6) one-week periods during each calendar year.
- Each week consisting of seven (7) individual 24-hour sampling events.
- Periods and locations of placement will be decided upon consultation with the City. Criteria such as prevailing wind directions and complaints will be considered, along with security of unit itself.
- Results obtained will be designed to evaluate whether there is a violation of the EPA National Ambient Air Quality Standard of 150 micrograms per cubic meter of air over a 24-hour period. Note that the regulation (40 CFR Part 50) states that this concentration is not to be exceeded more than once per year on average over a 3-year period.

Stantec understands they will be on-call to provide this monitoring to address unique or special circumstances or conditions as needed and as requested by the City.

An alternative to using a Stantec-provided aerosol monitor is to use one provided by the City. This will likely be less costly, and is described in the next Section 1.2.

Task 3 - Quarry Operations Monitoring and Reporting by Direct Observation

Stantec will conduct a qualitative site visit at both quarries to observe and document whether the sites are in compliance with the operation parameters defined in the PDD agreements, and to evaluate whether each quarries general operations are consistent with best management practices employed by other quarries throughout the state and country. Site visits will be unannounced during business hours, and be conducted three (3) days per month during March through October, and one (1) day per month during November through February. The days and times of the visits will vary. Qualitative data collected will include the following:

- Visual observation of all aspects of the mining operation, including but not limited to:
 - Ground vibration
 - Air blasts
 - Noise
 - Trucking operations, including on-site and directly adjacent off-site
 - Stormwater control and management
 - Outdoor vehicle and equipment washing
 - Any other mining operational issues that may affect local citizens
- Direct air quality observations, including:
 - General site and surrounding visual air quality, including opacity
 - Dust control measures and issues on-site

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- Dust control issues directly adjacent off-site
- Any other dust issues that may affect local citizens
- Quarry operations review, including:
 - Review of quarry records pertaining to dust control measures and recordkeeping, ensuring that both quarries are following standard protocol to minimize off-site impacts, and evaluating how well and how quickly they respond to potential of actual off-site impact situations
 - Comparison of records to stated performance objectives and respective PDD compliance

The findings of each visit will be documented on a standard form, which will be developed prior to the first visit and approved by the City. Stantec will also obtain photos to document site or directly adjacent off-site conditions, and when appropriate short-duration video clips (e.g., showing dust impacts).

Task 4 - Additional PDD Compliance

In conjunction with the blast and air monitoring tasks, and also with the operations monitoring, Stantec will assess whether each quarry is in compliance with other rules and regulations that may affect the local citizens. The primary focus will be on the quarry related blasting and air quality issues described in the PDDs, and secondarily upon other PDDs issues, some of which were previously outlined in the previous task (e.g., noise, stormwater, etc.).

Task 5 - Reporting Requirements and Coordination with City Staff

The following outlines the required reporting requirements and coordination with the City as requested in the RFP.

- Bi-monthly reports – Stantec will prepare and submit (no later than the 15th of March, May, July, September, November and January) to the City Planning Manager providing:
 - Summary of total and per quarry blasting reports.
 - Independent monitoring results in total and per quarry.
 - Monitor location summary and recommendations.
 - Evaluation and discussion of complaint data and responses. The City will provide Stantec copies of all complaints received. These complaints may dictate changes to the location and frequency of the monitoring. Stantec understands that the name of each complainant is confidential and will not be stated in our reports.
 - Recommendations regarding adverse impact, non-compliant results, and adverse trends.
- Public meeting attendance – Stantec may be required to present the bi-monthly report(s) at up to eight (8) public meetings, all of which will be outside of normal business hours.
- Annual summary report – No later than January 30th of each year, Stantec will provide an annual summary report to the City Planning Manager. This report will compile the prior year's bi-monthly reports. In this report Stantec will also provide recommendations, including possible amendments to the PDD Ordinances. Stantec will draw upon their nation-wide quarry background and experience, and evaluate whether new methods,

processes, procedures or equipment used by similar operations could or should be implemented at each quarry to help diminish adverse impacts on the adjacent community.

- Other communication with City – Stantec understands that good communication is critical for this project, and agrees to the following:
 - Notify the City Planning Manager of any blast or condition that exceeds the allowances outlined in the PDD. This will be completed prior to noon the business day following the day we become aware of such event.
 - As needed interaction with City staff during regular business hours.

1.2 STANTEC'S OPTIONAL SCOPE OF WORK ELEMENTS

Based on Stantec's experience from similar projects, we have determined several areas which the City could consider to save costs while still achieving overall project goals. Appendix C again provides a much more detailed breakdown of these optional tasks and subtasks, including a cost-savings breakdown showing the anticipated hours of staff effort dedicated to complete the scope of work.

Task 1 - Blast Monitoring, Data Collection, and Evaluation

No suggested scope of work changes or cost-saving measures is recommended.

Task 2 - Air Quality Monitoring, Data Collection, and Evaluation

To reduce costs while still achieving project objectives, Stantec recommends the City consider the following:

- City provided sampler - Instead of using a Stantec-provided aerosol monitor, use one provided by the City. This assumes the unit will be reliable and operate properly. This also assumes that all operating manuals and calibration instructions and materials will be provided.
- Reduction in sampling frequency – Obtaining 24-hour samples for six full weeks (7 days per week) equates to 48 separate mobilizations for sampling, each requiring a separate mobilization of Stantec staff to change sample filters and service the device. As an option, the City could consider reducing the sampling frequency to four (4) days per week, likely Monday through Thursday, or Tuesday through Friday, to coincide with days that each quarry has the greatest volume of trucking and other activity. This would reduce the mobilizations to 30.
- Fixed sampler location(s) – Set-up and removal of a portable aerosol monitor takes two individuals to accomplish. The samplers are cumbersome, and expensive to repair if accidents occur. Having the sampler located at (perhaps) two predetermined locations through the year would greatly reduce the charges incurred to mobilize to set-up and remove the monitor. These locations could be determined based on prevailing annual wind conditions and/or historic complaints sources.
- Fixed sampling schedule – The City's schedule for air quality monitoring could be amended to match that of the National Ambient Air Monitoring Strategy. The EPA has published a 6-

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day monitoring schedule for PM-10, which is used nationwide by any number of regulators and private parties for collection of PM-10 samples for compliance verification purposes. A typical high-volume air sample will run and collect a sample for a 24-hour period to coincide with the days on the EPA schedule; in other words it does not run and collect a sample for 6 continuous 24-hour days. The City's current schedule (six weeks, seven days, a single 24-hr sample collected each day) requires Stantec to mobilize employee(s) 8 days in a row, all at the same time of day to change filters, to meet this schedule. There is really no flexibility in this. If we used the EPA 6-day schedule, replacing filters could be done anytime during the week, providing increased flexibility that would result in potentially significant cost-savings. For instance, the filter changes could then be scheduled to coincide with other quarry visits required under the project scope of work, or they could be performed by an employee on their way to or from work, which could remove half (1/2) of the mobilization time and corresponding hourly fees.

- Assistance by City employees – A portable aerosol monitor, although portable, takes a two-person crew to set up and remove from each location. If the City had an individual that could assist a Stantec employee in this effort, it would again minimize the hourly fees charged by Stantec, resulting in cost-savings to the City.
- Additional equipment options – The production of accurate defensible data can be a critical component to evaluating and proving compliance to the EPA air quality standard. However, there are other types of airborne monitoring equipment available that are less expensive, are smaller/lighter (thus more portable and easier to move around), that can be used for this type of monitoring. However, these options will not produce the level of detail necessary to verifiably prove that a violation of the EPA PM10 standard has occurred. Based on the low levels historically observed during the previous sampling in 2001-2005, this may be sufficient. If not used exclusively, this type of equipment could be used in conjunction with the portable aerosol monitor to provide supplemental data.

Task 3 - Quarry Operations Monitoring and Reporting by Direct Observation

To reduce costs while still achieving project objectives, Stantec recommends the City consider reducing the qualitative site visits to both quarries from three (3) days per month during March through October down to two (2) days per month.

Task 4 - Additional PDD Compliance

No suggested scope of work changes or cost-saving measures is recommended. Stantec will strive to complete this evaluation in conjunction with the quarry operations monitoring task.

Task 5 - Reporting Requirements and Coordination with City Staff

To reduce costs while still achieving project objectives, Stantec recommends the following:

- Bi-monthly reports and Annual summary report– Rather than mail paper copies of these reports, Stantec will prepare an on-line FTP site location where PDF copies of all reports can be placed and easily assessed by City staff. If necessary, this FTP site can be password protected.

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- Public meeting attendance – A reduction in public meeting attendance will greatly reduce City costs. We recommend budgeting for only two (2) such presentations, one in mid-to-late summer and one following completion of the annual report.

Stantec's understanding regarding the scope of work is based on that which is outlined in the RFP and further explained in several emails received from the City. The major sections of work include the following:

- Blast monitoring, Data Collection, and Evaluation
- Air Quality Monitoring, Data Collection, and Evaluation
- Quarry operations Monitoring and Reporting by Direct Observation
- Additional PDD Compliance
- Reporting Requirements and Coordination with City Staff

2.0 FIRM QUALIFICATIONS

2.1 STANTEC CONSULTING SERVICES INC.

Statement Regarding Familiarity with Scope of Work

Stantec is very familiar with the scope of work and mining operations in general. An outline of our mining capabilities and brief company background is provided in Appendix B. In Wisconsin, we have performed a variety of services for non-metallic mining companies, including environmental audits, annual environmental reporting, air pollution control permitting and monitoring, noise assessments, stormwater permitting, and reclamation planning.

Regarding the air quality monitoring scope of work, Stantec is currently working with one of the largest frac sand mining and processing clients in Wisconsin (Superior Silica Sands) on several projects, one of which is described below in the STAFF QUALIFICATIONS section.

Stantec also has a strong area of expertise in the area of seismic monitoring. However, much of this expertise is not located in Wisconsin. Thus, we have decided to team with Giles Engineering Associates, Inc. (Giles) located in Waukesha, who has a good deal of experience in seismic monitoring. This will provide the City with a local presence to provide qualified service in this important area. Further information on Giles qualifications is provided below.

In addition to the areas of need in the City's scope of work (i.e., detailed mining operations knowledge; air quality monitoring and data collection; blast monitoring and seismic data collection), Stantec also has local specialists in other potential complaint-driven environmental areas as well, including dust control, opacity evaluations; stormwater compliance, and noise. If necessary when citizen complaints also involve alleged health issues, Stantec also has two Certified Industrial Hygienists (CIHs) in our Mequon, WI office.

Statement Regarding Expertise in Communicating Technical Issues to General Public

Stantec is very comfortable in communicating technical issues to a variety of clients including the general public. Much of the work we provide consultation for is technical. Thus, reducing data and information into easy to understand terms is a necessary component of our services. However, as is always the case in matters such as this project, Stantec will not communicate with anyone except the City on matters related to this project without approval from the City, or the City's council. Until authorized for release, all communication will be kept confidential. Stantec will only communicate with the public at the request of and in a method that is preferred by the City of Franklin. In the case of this project, we recommend that all communication be routed through the City Planning Manager. At the most, a simple website or web portal could be established. More elaborate methods, such as "town hall meetings" can also be completed if appropriate.

Professional References

Stantec is providing two (2) professional references, and Giles is providing one (1).

Client:	Superior Silica Sands
Contact Name:	Mr. Richard Schearer, President and CEO
Address:	19 County Highway SS, New Auburn, WI
Phone:	(304) 671-7700
Project Description:	Particulate (PM ₁₀) monitoring project for a Superior Silica Sands frac sand processing facility. Further description is provided below in the STAFF QUALIFICATIONS section further below; the proposed Project Manager for the City of Franklin project is the current Project Manager for the Superior Silica Sands project.

Stantec Proposal: City of Franklin, WI – Quarry Monitoring Services

Client: Town of Paris, Wisconsin
 Contact Name: Mr. Virgil Gentz, Town Chairman
 Address: 16906 - 38th Street, Kenosha, WI 53144
 Phone: (262) 859-2748
 Project Description: Following citizen complaints, the Town of Paris retained Bonestroo, Inc. (prior to September 3, 2011 acquisition by Stantec) to perform an assessment of noise sources within the borders of the town, resident interviews, evaluation of existing comparable state-wide noise ordinances, assistance in developing a noise ordinance for the Town, design and perform a study to evaluate the proposed ordinance's effect on actual Town noise sources, communication with Town Board members.

Statement of Litigation or Early Termination

In the last ten (10) years, Stantec Consulting Services Inc. has not been involved with any litigation in connection with any similar project(s), nor has Stantec had a contract for a related scope of services terminated early or prior to the contract's scheduled end of term.

Statement of Previous Work Performed for Vulcan Materials and/or Payne & Dolan

With 170 offices throughout North America, and with a strong growing presence in the mining industry, in the last ten (10) years, Stantec (formerly Bonestroo, Inc.; formerly Northern Environmental Technologies, Inc.) has performed the following services for Vulcan Materials and/or Payne & Dolan. Note that none of the work was performed at either of the quarries in the City of Franklin. In addition, none of the work was completed by Stantec employees assigned to this contract.

Vulcan Materials

<i>Date</i>	<i>Scope of Work</i>	<i>Project Location</i>
2012	Update ALTA Survey	California
2012	Survey of stormwater structures	Florida
2012	Survey of monitoring well locations	Florida
2011	Surveying	Florida
2011	Site habitat assessment for 19 quarry sites	Throughout Midwest
2011	Waterway permitting and regulations	Wisconsin

Payne & Dolan

<i>Date</i>	<i>Scope of Work</i>	<i>Project Location</i>
2011	Wetland delineation	Wisconsin

Statement of Previous Third Party Monitoring Performed for Vulcan Materials and/or Payne & Dolan

In the last ten (10) years, Stantec (formerly Bonestroo, Inc.; formerly Northern Environmental Technologies, Inc.) has **not** performed any third party monitoring services for either Vulcan Materials and/or Payne & Dolan.

2.2 GILES ENGINEERING ASSOCIATES, INC.**Statement Regarding Familiarity with Scope of Work**

Giles is familiar with the scope of services being requested by the RFP. Giles has performed vibration monitoring services at numerous Southeastern Wisconsin project sites for various

Stantec Proposal: City of Franklin, WI – Quarry Monitoring Services

reasons including: quarry monitoring services, pile and sheet pile driving operations, manufacturing processes, traffic studies and vibration monitoring during construction at adjacent properties. Past work has included monitoring in historical landmark buildings whose age was such that vibrations were of concern, and monitoring within manufacturing facility with very low trigger levels to prevent production losses and errors to sensitive diagnostic medical equipment. The latter required real-time alarms to enable the plant to shut down equipment should vibrations exceed warning limits.

Statement Regarding Expertise in Communicating Technical Issues to General Public

Giles has established a number of protocols related to addressing members of the general public that may be affected by a project. Becoming familiar with the interests and demands of our client is critical. Our municipal clients, like the City of Franklin, may have special concerns relating to its obligation to keep members of the public informed. Any and all communications will first be discussed and approved by the City of Franklin, or its counsel, prior to being made. Until authorized for release, all communication will be kept confidential. At the request of the City of Franklin, Giles will communicate with the general public in any manner that is preferred by the City of Franklin; whether that is through the establishment of a website, hosting "town hall discussions", being available at certain times at the City of Franklin municipal offices, or appearing on closed-circuit television broadcasts. At the City of Franklin's request, Giles will establish a portal of information through Stantec that works best for the City of Franklin. And we will modify our approach as need be during the performance of the contract. Giles will assign person(s) with 24 hour availability to address any urgent concerns. Any portion of fees attributable to public communications, as discussed herein, but not used will be credited against the agreed contract price. Please note that Giles also maintains relationships with public relations firms based in the greater Milwaukee area. We are able to quickly retain expert assistance if necessary; although a cost for such assistance has not been included herein. We are, however, confident that our professionals (including our on-staff attorneys), working with the City of Franklin, will be able to carefully and professionally communicate technical information to the public.

Professional References

Giles is providing one (1) professional references, while Stantec previously provided two (2).

Client:	GE Healthcare (Note: GE Healthcare is also a client of Stantec. We provide Industrial hygiene and health & safety services for them.)
Contact Name:	Bob Rogahn
Address:	4855 West Electric Avenue
Phone:	414-587-2109
Project Description:	Giles monitored vibrations caused by adjacent construction on the property to provide warning to shut down production of sensitive parts of diagnostic medical equipment.

Statement of Litigation or Early Termination

There are no prior or current claims, disputes, litigation or matters of early termination involving Giles related to the services as proposed herein.

Statement of Previous Work Performed for Vulcan Materials and/or Payne & Dolan

In the last ten (10) years, Giles Engineering Associates, Inc. has not performed any vibration monitoring services for Vulcan Materials. We have performed materials testing services for quarry products; tests performed include gradation and aggregate quality testing.

In the last ten (10) years, Giles Engineering Associates, Inc. has not performed any vibration monitoring services for Payne & Dolan, Inc. We have performed materials testing services for quarry products; tests performed include gradation and moisture-density relationship (proctor) testing. We have also tested hot mix asphalt for various mix characteristics. Testing of quarry

Stantec Proposal: City of Franklin, WI – Quarry Monitoring Services

products and hot mix asphalt has more often been performed for clients other than Payne & Dolan, Inc. (i.e. municipalities and private clientele). We have also occasionally performed field density testing of asphaltic concrete pavements when requested.

Statement of Previous Third Party Monitoring Performed for Vulcan Materials and/or Payne & Dolan

In the last ten (10) years, Giles Engineering Associates, Inc. has not performed any third party monitoring services for either Vulcan Materials and/or Payne & Dolan.

3.0 STAFF QUALIFICATIONS

3.1 STANTEC CONSULTING SERVICES INC.

Michael Roznowski, CHMM, LEED Green Associate

Mr. Roznowski will serve as a **Project Manager** for the project. Mr. Roznowski has an extensive background completing and/or managing numerous projects for mining clients. The scope of services has included annual EPA/WDNR environmental reporting, air pollution control permitting and monitoring, noise assessments, stormwater permitting, and reclamation planning. In his role, he will review all draft and final products, and serve as the project's Quality Assurance officer. Mr. Roznowski is a Certified Hazardous Materials Manager with over 16 years experience in environmental compliance matters. Mike serves as Stantec's Industrial Team Leader for the Midwest and Wisconsin markets. Mr. Roznowski's billing rate for this project will be \$135 per hour.

Currently, Mr. Roznowski is managing air pollution control particulate (PM₁₀) monitoring project for a Superior Silica Sands frac sand processing facility in New Auburn, WI. The project involves the following:

- Establishment and operation (for two years following facility start-up) of an ambient air PM₁₀ monitor;
- Selection and procurement of PM₁₀ sampling equipment;
- In consultation with Wisconsin Department of Natural Resources (WDNR), selection of an acceptable sampling site location;
- Completion of acceptance testing of the equipment;
- Preparation of a Site Operations, and Quality Control and Assurance Manual;
- Installation of the equipment at the monitoring site, including initial calibration and initiate sampling;
- Development of monitoring program, designed for collecting 24-hour integrated samples once every six days, quarterly field calibrations, sample gravimetric analyses using a qualified and certified outside laboratory;
- Monthly data processing and reporting to the client and WDNR;
- Development of Malfunction Prevention and Abatement Plan (MPAP) to serve as the facility's guide to emissions control efforts. The plan leverages existing client standard operating procedures and manufacturer's instructions to provide useful, consistent guidance;
- Development of a fugitive dust plan to prevent particulate matter from becoming airborne, potentially causing a nuisance or exceedance of an ambient standard.

This current project is very applicable to the scope of work outlined in the City of Franklins RFP.

Stantec Proposal: City of Franklin, WI – Quarry Monitoring Services

David Boyd, PE

Mr. Boyd will serve as the **Technical Lead – Air Quality** for this project. Mr. Boyd is a licensed professional engineer with over 20 years of professional experience including consulting, industry, and the WDNR. This experience has included environmental auditing, air permitting, air pollution control sampling, air pollution modeling, greenhouse gas reporting, noise assessments, annual environmental reporting, and pollution prevention program development. This project work has been for a variety of client types, including non-metallic mining clients in Wisconsin. Mr. Boyd is currently working with several different frac sand mining and processing clients in Wisconsin on several projects, one of which is described above. Mr. Boyd's billing rate for this project will be \$122 per hour.

A. Rick Schmidt, PE

Mr. Schmidt will serve as the **Client Manager** for this project. In this role he will assist as appropriate Stantec and Giles staff on their interactions with the City and community representatives, and be an alternative point of contact for both firms. Mr. Schmidt is already familiar with the City based on previous project experience. Mr. Schmidt is a Licensed Professional Engineer and serves as Team Leader for Stantec's Milwaukee office where he has been a key leader and principal in charge for more than 19 years. Mr. Schmidt possesses a breadth of ability and experience ranging from project management, project design & planning, and leading community involvement efforts. His experience comprises a full array of municipal and private civil engineering projects including: water resource management, road & utility design and construction, site planning and design, park & recreation planning and design, and transportation. His responsibilities also include coordinating with government agencies regarding permits and approvals, facilitating meetings and stakeholders sessions, and managing client expectations and deliverables. Mr. Schmidt's billing rate for this project will be \$187 per hour.

Andy Swaim

Mr. Swaim will assist in the **field technician** portion of the scope of work. Mr. Swaim has five years of experience conducting site assessments of various commercial and industrial properties, performing field sampling and monitoring using a variety of equipment and monitors, documenting site conditions and operations, and conducting post-field analysis and report writing. Mr. Swaim has participated in several projects for aggregate producers, and is familiar with standard site operations. Mr. Swaim also prepares geologic and hydrogeologic maps and cross sections and can help evaluate surface and groundwater impacts from excessive water use in an area. Mr. Swaim's billing rate for this project will be \$73 per hour.

Resumes for all team members are provided in Appendix D.

3.2 GILES ENGINEERING ASSOCIATES, INC.

Paul J. Giese, P.E.

Mr. Giese will be the **Giles Project Manager** for the blast monitoring portion of the project. Mr. Giese has 27 years of professional experience in geotechnical and environmental engineering, twenty of which have been with Giles. He is a licensed Professional Engineer in Wisconsin and California. He is responsible for supervision and management of the geotechnical engineering division, which includes a staff of four engineers. Mr. Giese's experience has included the preparation and senior review of geotechnical, environmental, and construction monitoring reports. Mr. Giese has extensive experience in client management for municipal clients, such as the City of Franklin. For this project, Mr. Giese will act as the client liaison with Stantec and the City of Franklin and will assist in coordination of field activities and senior review of the blast monitoring data and the bi-monthly and annual reports. Mr. Giese's billing rate for this project will be \$120 per hour.

Steven Homar, P.E.

Mr. Homar will be the **Technical Lead – Blast Monitoring** for the project. Mr. Homar has 16 years of professional experience in inspection and report writing as an employee of the firm. He directs and schedules activities of 10 to 25 field technicians. His responsibilities include preparing proposals for construction materials observation and testing projects, and writing and reviewing field observation and testing reports. He has been the primary technical consultant in the Materials Testing Division for vibration monitoring projects for the past ten years. He is a Licensed Professional Engineer in Wisconsin. For this project, Mr. Homar will coordinate the activities of the field personnel. He will review the blast monitoring data and prepare the bi-monthly and annual reports. Mr. Homar's billing rate for this project will be \$100 per hour.

Angela Jacobi

Ms. Jacobi will be the **Field Engineer** for the blast monitoring portion of the project. Ms. Jacobi has more than 8 years of experience with 4 of those years spent supervising subsurface explorations and preparation of geotechnical reports. She has prepared more than 400 geotechnical reports for commercial, industrial, government and residential projects throughout the United States. Her reports have included several pavement evaluations. Her experience also includes observation and evaluation of soils, rock and pavements, as well as assigning and conducting laboratory testing. She also has 4 years of experience as a construction materials testing field engineer, which includes performing soil, concrete, asphalt and rebar inspection. Currently, she is our lead project manager for the Mitchell Interchange bridges, tunnels, and retaining walls. Her responsibilities for the project included managing manpower resources to cover the wide array of project demands, tracking material quantities and qualities, and coordinating with contractor and State personnel. For this project, Ms. Jacobi will serve as one of two main people (along with Mr. Adrian) to set-up, maintain, and download data from the in-place seismographs. Ms. Jacobi's billing rate for this project will be \$90 per hour.

David Adrian

Mr. Adrian will be the **Primary Field Technician** for the blast monitoring portion of the project. Mr. Adrian has extensive experience in field construction materials testing and observation of soil, concrete, masonry, and asphalt. He also performs pile driving inspection, reinforcing steel inspection, observation of post-tensioning of cables, and spray-applied fire proofing testing. He has performed pre- and post-construction condition surveys of properties adjacent sites where the effect of vibrations on the existing buildings has been a concern. Mr. Adrian has worked as the lead field representative for Mr. Homar on several past vibration monitoring projects and is familiar with the seismograph equipment used by the City of Franklin. For this project he serve in that capacity as one of two main field representatives to set-up, maintain, and download data from the in-place seismographs. Mr. Adrian's billing rate for this project will be \$75 per hour.

Resumes for all team members are provided in Appendix D.

4.0 TERMS AND CONDITIONS ACCEPTANCE

Stantec Consulting Services, Inc. is the Prime Consultant for this work, while Giles Engineering Associates, Inc. will perform as subconsultant. Stantec accepts the City of Franklins Anticipated General Professional Services Agreement Terms, but requests consideration be given to the following meaningful modifications:

- **IMPORTANT** Clause VIIC – Please replace from “the percentage share...to...and individuals.” in lines 5-7 with “\$300,000 or the fees, whichever is greater.”
- Clause XIII – Recommend adding the following to the end of this clause: *“Contractor shall exercise usual and customary professional care and judgment to perform the Services in compliance with applicable laws, regulations, codes and standards in effect as of the date of this Agreement.”*
- **IMPORTANT** We suggest adding: *“Neither the City nor the Contractor shall be liable to the other or shall make any claim for any incidental, indirect or consequential damages arising out of or connected to this Agreement or the performance of the services on this Project. This mutual waiver includes, but is not limited to, damages related to loss of use, loss of profits, loss of income, unrealized energy savings, diminution of property value or loss of reimbursement or credits from governmental or other agencies.”*

5.0 ADDITIONAL COMMENTS

Due to the hourly estimates to complete the scope of work as outlined in the RFP, the quoted fees to complete the work may seem significant. Stantec understands this, and encourages the City to consider one or more of the options outlined in Section 1.0 to reduce the effort needed to ultimately achieve project objectives. With the degree and extent of these options, it can be difficult to clearly describe in this proposal the extent of the savings. Stantec and Giles are willing to consider additional cost-savings measures, and recommend a meeting or conference call between all parties to better understand how these options can minimize fees.

6.0 CERTIFICATION STATEMENTS

Stantec's Federal Employer Identification Number is 112167170.

The following statements are provided as part of this proposal:

- Other than what is outlined in Section 10.0, neither Stantec nor Giles take any exception to the RFP.
- This proposal is executed and submitted by Stantec employees duly authorized to execute legal documents on behalf of Stantec.

7.0 PROJECT COSTS AND FEES

The team of Stantec and Giles has provided the following two attachments to outline our project costs and fees:

- Appendix C Detailed Estimated Staff Effort spreadsheet identifying brief description of tasks necessary to support scope of work, along with estimated number of hours to complete each task.
- Appendix E Copy of RFP Appendix B – Project Costs, with fee values inserted.

8.0 HOURLY RATES FOR ADDITIONAL STAFF

Additional principals and employees that may be used to provide supplemental and on-call services described in the Scope of Work and to provide services outside the primary scope of services in the event additional services or adjustments to the Scope of Work are separately negotiated during the Terms of the PSA are outlined below.

Both Stantec and Giles reserve the right to include additional staff to this list (primarily due to new staff being hired and becoming available) pending approval by the City.

8.1 STANTEC CONSULTING SERVICES INC.

<u>Name</u>	<u>Hourly Billing Rate</u>
Dave Rautmann, PE	\$187
John Reiter, CIH	\$135
Rick Binder	\$135
Dan Feldt, CIH	\$129
Richard Pager	\$108
Lisa Chapa	\$100
Judd Olson	\$86
Melissa Davidson	\$61

8.2 GILES ENGINEERING ASSOCIATES, INC.

<u>Name</u>	<u>Hourly Billing Rate</u>
Charlie Gresser, PE	\$120
Jeffrey Miller, PE	\$110
David Cornale, EIT	\$90
James Kubash	\$75
Laurie Kick	\$30

9.0 NOTICE OF CONFIDENTIAL INFORMATION

9.1 STANTEC CONSULTING SERVICES INC.

Stantec has no content of this proposal or attachments it considers to be confidential in accordance with Wisconsin or Federal public record laws.

9.2 GILES ENGINEERING ASSOCIATES, INC.

Giles has no content of this proposal or attachments it considers to be confidential in accordance with Wisconsin or Federal public record laws.

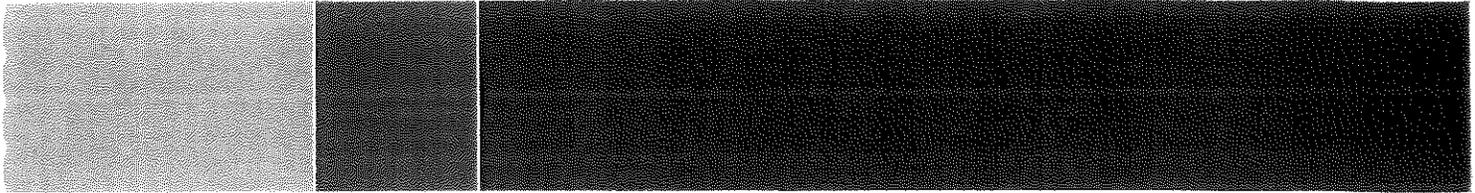
10.0 EXCEPTIONS TO RFP

10.1 STANTEC CONSULTING SERVICES INC.

Other than that previously addressed in alternative work programs or contract terms, Stantec has no exception to any other aspects or content of the RFP.

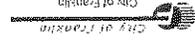
10.2 GILES ENGINEERING ASSOCIATES, INC.

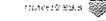
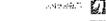
Other than that previously addressed in alternative work programs or contract terms, Giles has no exception to any other aspects or content of the RFP.



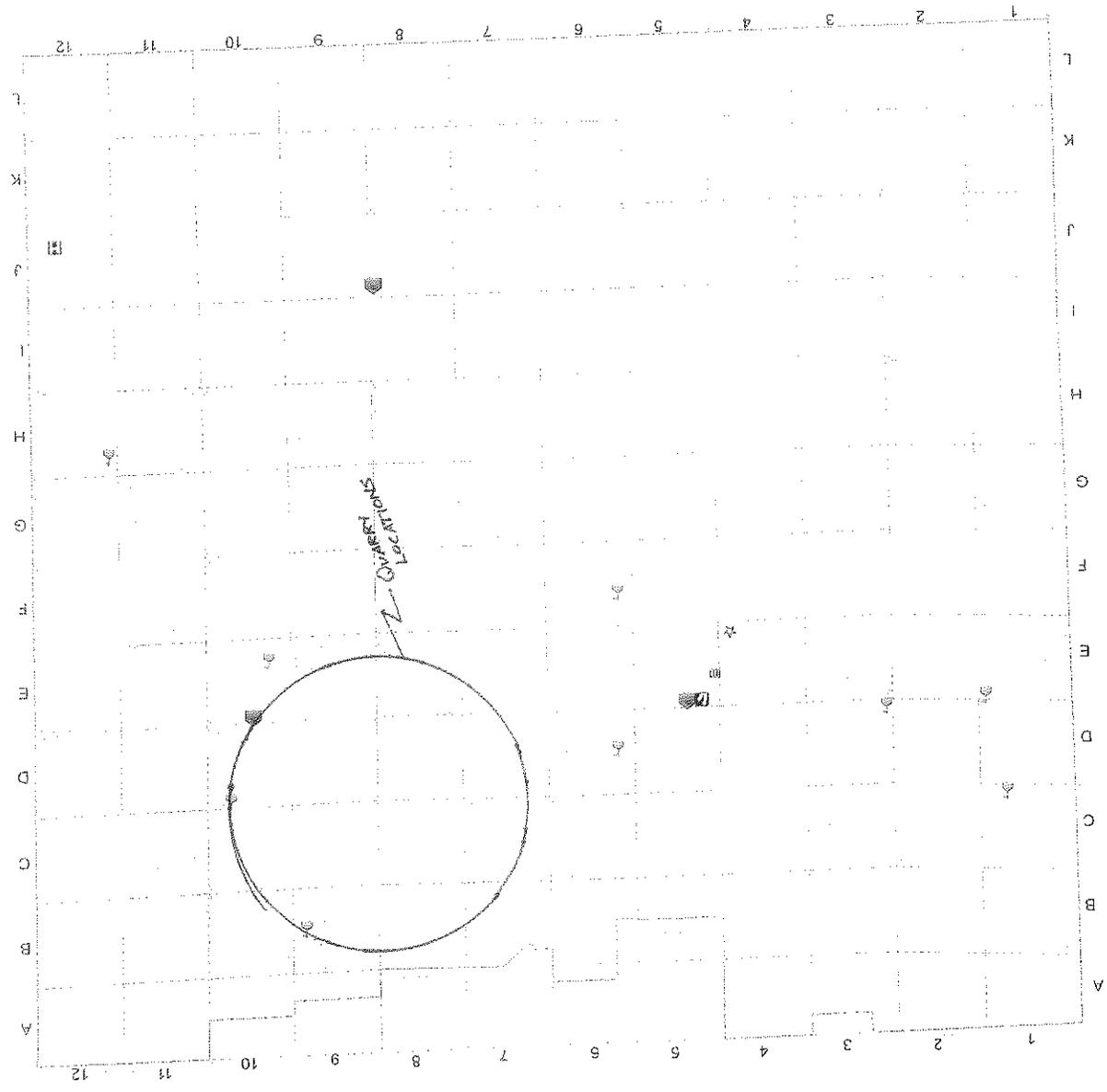
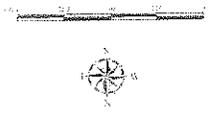
Appendix A

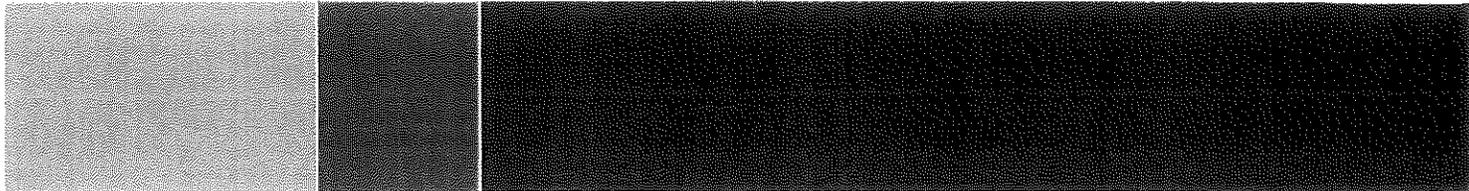
Local Maps


 City of Franklin
 GIS Department
 9229 W. Lockmead Rd
 Franklin, WA 98132
 www.franklin.wa.gov

- Point of Interest
-  Name
 -  City Hall
 -  Fire Station
 -  Library
 -  Police
 -  School
 -  Park

City of Franklin





Appendix B

Stantec Information and Mining Capabilities

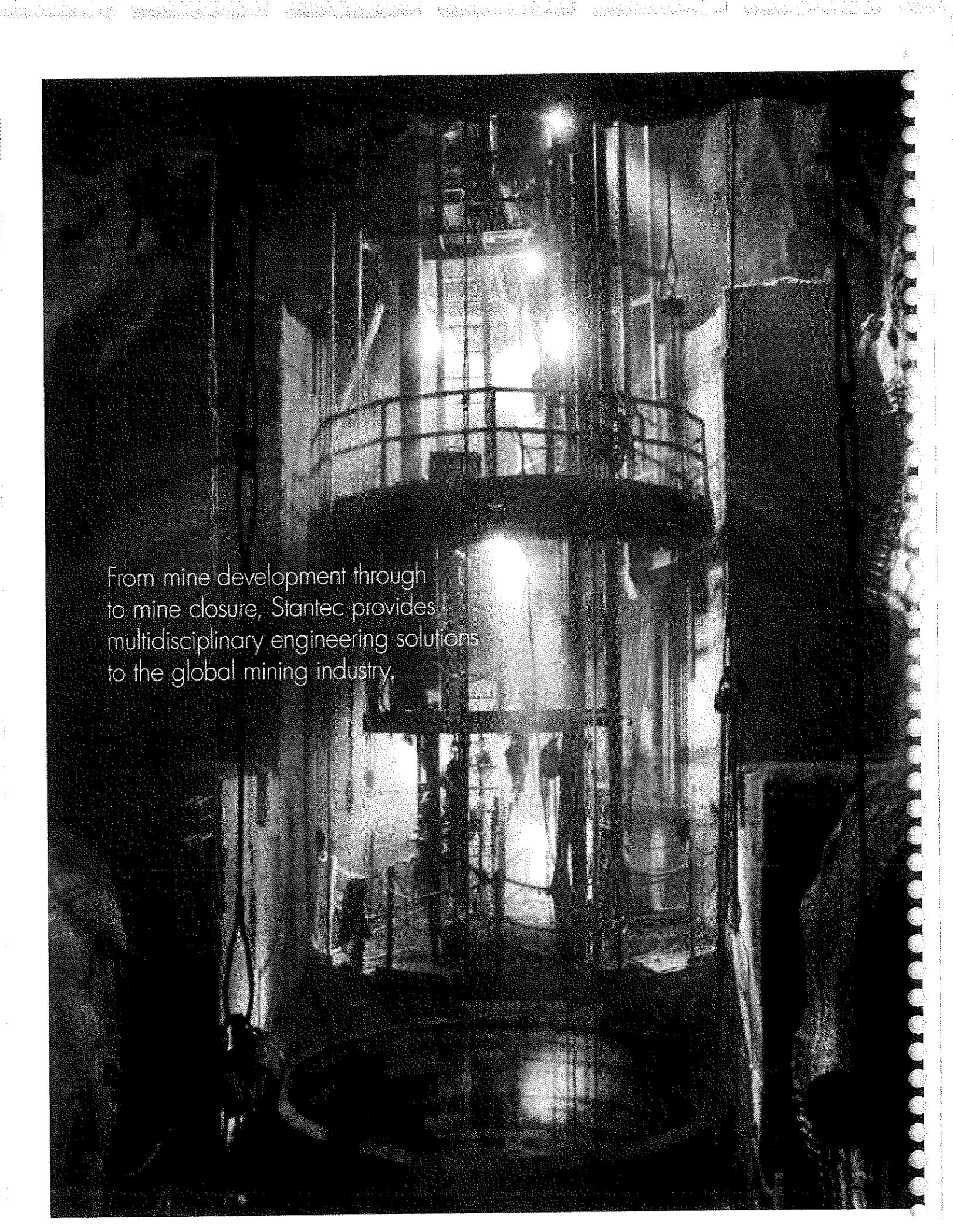


MINING

Global Expertise. Local Delivery.



Stantec



From mine development through
to mine closure, Stantec provides
multidisciplinary engineering solutions
to the global mining industry.

ONE TEAM. INFINITE SOLUTIONS.

advancing
mining
excellence

Working with some of the world's largest mining companies, Stantec provides the industry with a full range of services. From feasibility studies through to mine reclamation and restoration, Stantec offers clients total solutions to their complex requirements. We are a leader in underground mining engineering and related technology, serving some of the largest, deepest, and most technically challenging mines in the world.

Stantec understands the complex challenges of modern-day mining such as depleted mineral reserves, strict environmental regulations, rising operating costs, and the impact of fluctuating mineral prices.

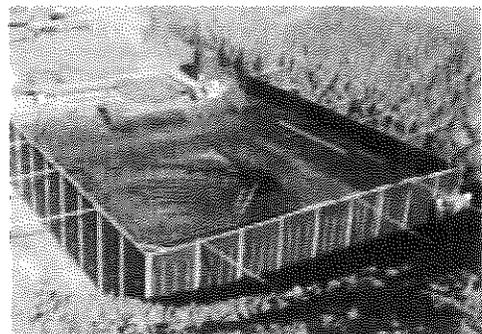
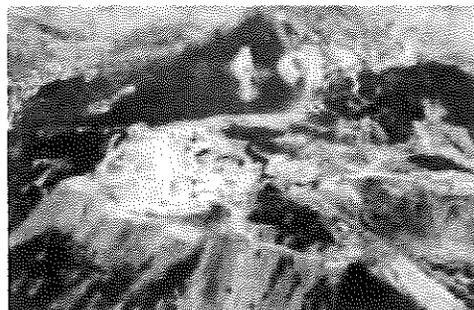
By assembling a diverse team of professionals, we are able to thoroughly evaluate opportunities and constraints, resolve complex issues, and create integrated solutions. Through careful, methodical planning and modern technology, we work as one team, applying interdisciplinary skills and sharing knowledge between our offices across North America.

USA
Xstrata Fraser-Morgan Mine
Project Phases 1 & 2 | Sudbury,
Ontario | *Underground Health
& Safety, Industrial Process
Engineering, Program & Project
Delivery Leadership*

USA
PT Freeport Indonesia Big
Gosau Shaft | Indonesia |
*Shaft and Underground
Infrastructure*

USA
Ivanhoe Oyu Tolgoi #1 Shaft
Collar | Mongolia | *Shaft and
Underground Infrastructure*

USA
Rasika Montana Gold Project |
Rasika, Montana, Russia |
*Assessment, Permitting, and
Compliance (Environmental
Management)*

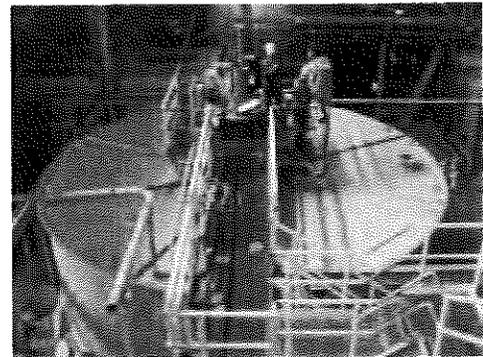
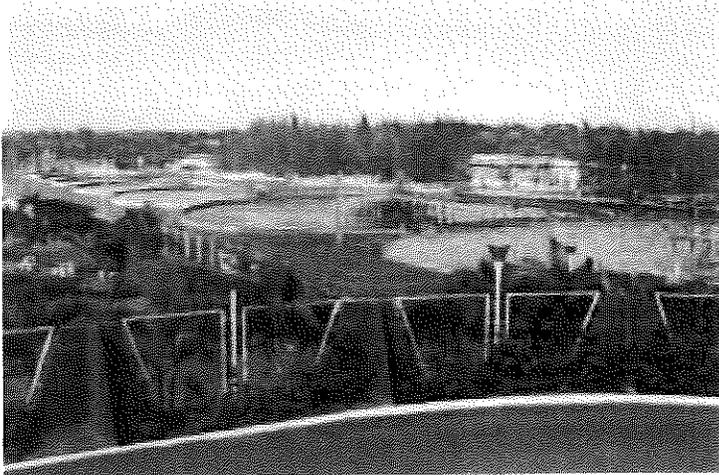


Mine Engineering & Design

- Feasibility Studies
- Detail/Structural Engineering and Design
- Civil/Structural Engineering
- Mechanical Engineering
- Electrical Engineering
- Mine Shaft Engineering
- Headframe Engineering Design
- Hoisting Plant Design
- Computer Analysis and Design
- Geotechnical Engineering
- Resource and Reserve Estimating/
Mine Exploration

Environment

- Environmental Impact Assessments
- Air Quality Management
- Environmental Baseline Studies
- Permitting and Regulatory Compliance
- Environmental Effects Monitoring/Biomonitoring
- Surface/Ground Water Hydrology
- Risk Assessment and Management
- Acid Mine Drainage



- Closure and Decommissioning Planning
- Mine Closure, Reclamation, and Restoration
- Mine Water and Wastewater Treatment
- Effluent Dispersion and Assimilative Capacity Modeling
- Environmental Management Systems
- Total Sustainable Mining, Environmental Management System, and Environmental Due Diligence Audits
- Sustainability, Greenhouse Gases Climate Change Plans and Audits
- Energy Audits
- Aboriginal Relations and Stakeholder Consultation

Facilities & Site Development

- Mechanical/Civil/Electrical and Controls Engineering
- Process Plant Engineering
 - Ventilation
 - Material Handling
 - Crushing
 - Power Distribution
 - Fire Protection
 - Maintenance Engineering
 - Load-out Facilities
- Mine Engineering
 - High Voltage Distribution
 - Explosives Storage Buildings

- Truck Maintenance Facilities
- Mine Ventilation and Water Supply
- Architecture
 - Workforce Housing
 - Administration Buildings
 - Maintenance Facilities
- Buildings Engineering
- Land Planning and Engineering
- Surveys/Geomatics
- Landscape Architecture

Program & Project Management

- Pre-project Planning and Scope Definition
- Project Execution Planning
- Contracting Strategy Development
- Project Governance and Organizational Design
- Management of Design
- Procurement and Construction
- Schedule, Cost, and Scope Control and Reporting
- Contractor and Vendor Management
- Site Coordination

Transportation

- Bridges
- Roadways
- Transportation Planning
- Rail

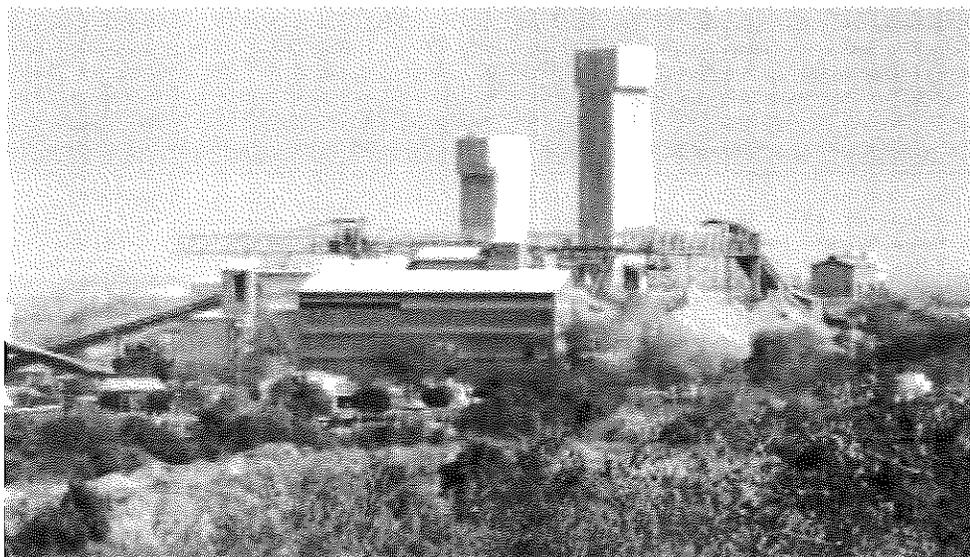
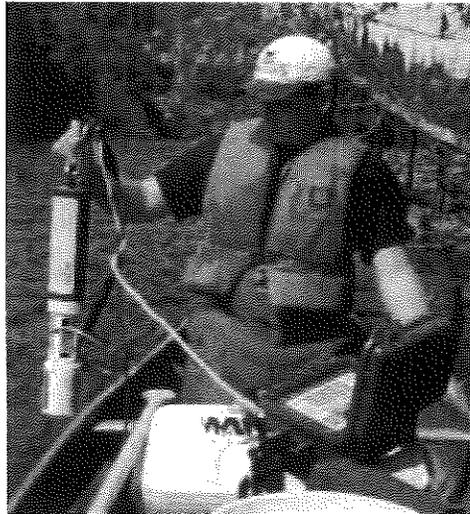
2013-2014
 Sherritt International Asset
 Retirement | Alberta, Belgium
 Treatment, Canada | Project
 Management, Environmental
 Management

Vale Inco Fluid Bed Roaster
 SO₂ Abatement | Copper
 CMB, Ontario | Project
 Management

HEALTH & SAFETY MANAGEMENT

Stantec provides a comprehensive range of Health and Safety Management services designed to promote safe, healthy workplaces and communities, as well as assess liability, optimize current performance, ensure continued compliance, and minimize risk. Our team of licensed and accredited industrial hygienists, engineers, scientists, safety professionals, and regulatory specialists audit existing conditions and design, implement, and optimize solutions within an industrial facility and external to the working environment.

Our dedication to quality, innovation, and professionalism results in optimal solutions for our clients, improving capital savings and reducing lost time accidents, liabilities, and risks.



125
Water Sampling/
Environmental Management
| Ontario

100
Palaboro | South Africa
| Mining Studies

100-100
Britannia Mine—Acid Mine
Water Treatment Plant
| Vancouver, British Columbia
| Architecture, Wastewater
Treatment, Water | Joint Venture
Locke/Be Stanley | Architect
Locke/Be Stanley



To find out how Stantec works with clients to deliver projects on time,
on budget, and to the highest quality standards, please contact

Name

Title

Phone, email address, etc...

Introduction to Stantec



One Team. Infinite Solutions.

Stantec, founded in 1954, provides professional consulting services in planning, engineering, architecture, interior design, landscape architecture, surveying, environmental sciences, project management, and project economics for infrastructure and facilities projects. Continually striving to balance economic, environmental, and social responsibilities, we are recognized as a world-class leader and innovator in the delivery of sustainable solutions. We support public and private sector clients in a diverse range of markets at every stage, from the initial conceptualization and financial feasibility study to project completion and beyond.

In simple terms, the world of Stantec is the water we drink, the routes we travel, the buildings we visit, the industries in which we work, and the neighborhoods we call home.

Stantec is **One Team** providing **Infinite Solutions**.

Year Founded: 1954
Gross Revenue: CDN \$1.7 Billion (2011)
Ownership: Publicly owned
Stock Exchange Symbol (NYSE and TSX): STN
Locations: More than 190 offices in North America and 4 locations internationally
Employees: Approximately 12,000

Corporate Headquarters:

10160 – 112 Street, Edmonton, Alberta, Canada, T5K 2L6

Leadership:

Bob Gomes—President & CEO
Rich Allen—Senior Vice President & COO
Dan Lefavre—Senior Vice President & CFO
Paul Allen—Senior Vice President
Don Belliveau—Senior Vice President
Carl Clayton—Senior Vice President
Tino DiManno—Senior Vice President
Scott Murray—Senior Vice President
Eric Nielsen—Senior Vice President
Stanis Smith—Senior Vice President

Regions:

Alberta—Edmonton Capital Region	New Brunswick & P.E.I.
Alberta Central & Northern	New England
Alberta South	Nova Scotia & Newfoundland
Americas	Ontario GTA
British Columbia	Ontario North & East
British Columbia—Vancouver	Ontario Southwest
California North	Pacific Northwest
California South	Quebec
Desert & Mountain	Saskatchewan
Eurasia	Southeast
Great Lakes	South
Manitoba	Tri-State
Mid Atlantic	

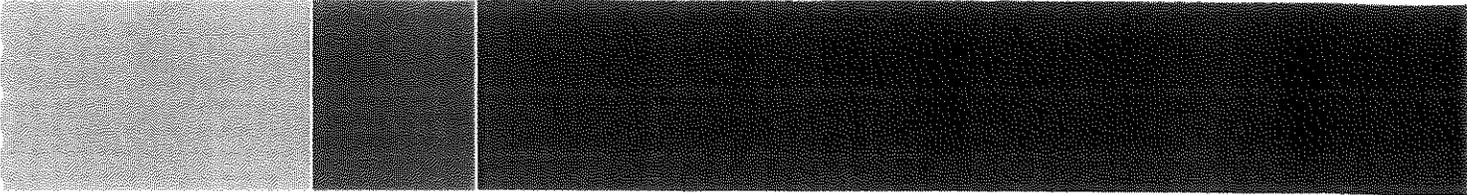
Practice Areas:

Architecture & Interior Design	Oil & Gas
Buildings Engineering	Power
Environmental Services	Program & Project Management
Geomatics	Transportation
Geotechnical Engineering	Urban Development
Industrial Buildings & Facilities	Water
Mining	

Rankings:

No. 21 Top 150 Global Design Firms (ENR, July 2011)
No. 24 Top 500 Design Firms (ENR, April 2012)
No. 28 Top 200 International Design Firms (ENR, July 2011)
No. 22 Top 200 Environmental Firms (ENR, July 2011)
No. 5 Top 42 Engineer/Architects (BD&C, July 2011)
No. 8 Top 208 Green Design Firms (BD&C, July 2011)
No. 12 Top 175 Hot Firm List (ZweigWhite, October 2011)

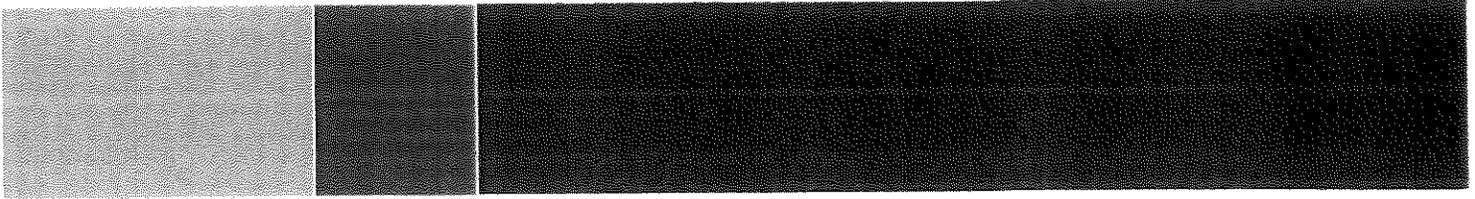
One of Canada's Top 100 Employers
One of Canada's Top Employers for Young People
One of Canada's Greenest Employers
One of Canada's Best Diversity Employers



Appendix C

Detailed Tasks and Subtasks Showing Estimated Staff
Effort

Task/Subtask Description	Estimated Number of Hours										Mileage & Equip Costs / Fees				
	Project Manager	Technical Lead	Field Personnel #1	Field Personnel #2	Admin.	Other	Other	Equipment Costs / Fees	Sub-Project Manager	Technical Lead		Field Personnel #1	Field Personnel #2	Admin./ Clerical	Alternate Field Personnel
Review of data, preparation of documentation to City (2 of 6); bi-monthly reports	0.5	2.5			1			\$50							
Review of data, preparation of documentation to City (3 of 6); bi-monthly reports	0.5	2.5			1			\$50							
Review of data, preparation of documentation to City (4 of 6); bi-monthly reports	0.5	2.5			1			\$50							
Review of data, preparation of documentation to City (5 of 6); bi-monthly reports	0.5	2.5			1			\$50							
Review of data, preparation of documentation to City (6 of 6); bi-monthly reports	0.5	2.5			1			\$50							
Quarterly Operations Monitoring and Monitoring by Direct Observation															
Unannounced query visit and preparation of documentation (March: 1 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (March: 2 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (March: 3 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (April: 1 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (April: 2 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (April: 3 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (May: 1 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (May: 2 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (May: 3 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (June: 1 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (June: 2 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (June: 3 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (July: 1 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (July: 2 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (July: 3 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (August: 1 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (August: 2 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (August: 3 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (September: 1 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (September: 2 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (September: 3 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (October: 1 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (October: 2 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (October: 3 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (November: 1 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (November: 2 of 3)		4						\$50							
Unannounced query visit and preparation of documentation (November: 3 of 3)		4						\$50							
Development of approved forms with City for submittal of data	0.5	2						\$50							
Additional PDD Compliance															
Review of quarry operations PDD compliance - busy operations (March)	1	2						\$50							
Review of quarry operations PDD compliance - busy operations (April)	1	2						\$50							
Review of quarry operations PDD compliance - busy operations (May)	1	2						\$50							
Review of quarry operations PDD compliance - busy operations (June)	1	2						\$50							
Review of quarry operations PDD compliance - busy operations (July)	1	2						\$50							
Review of quarry operations PDD compliance - busy operations (August)	1	2						\$50							
Review of quarry operations PDD compliance - busy operations (September)	1	2						\$50							
Review of quarry operations PDD compliance - busy operations (October)	1	2						\$50							
Review of quarry operations PDD compliance - busy operations (November)	1	2						\$50							
Review of quarry operations PDD compliance - busy operations (December)	1	2						\$50							
Review of quarry operations PDD compliance - limited operations (January)	1	2						\$50							
Review of quarry operations PDD compliance - limited operations (February)	1	2						\$50							
Review of quarry operations PDD compliance - limited operations (March)	1	2						\$50							
Review of quarry operations PDD compliance - limited operations (April)	1	2						\$50							
Review of quarry operations PDD compliance - limited operations (May)	1	2						\$50							
Review of quarry operations PDD compliance - limited operations (June)	1	2						\$50							
Review of quarry operations PDD compliance - limited operations (July)	1	2						\$50							
Review of quarry operations PDD compliance - limited operations (August)	1	2						\$50							
Review of quarry operations PDD compliance - limited operations (September)	1	2						\$50							
Review of quarry operations PDD compliance - limited operations (October)	1	2						\$50							
Review of quarry operations PDD compliance - limited operations (November)	1	2						\$50							
Review of quarry operations PDD compliance - limited operations (December)	1	2						\$50							
Review of quarry operations PDD compliance - limited operations (January)	1	2						\$50							
Development of approved forms with City for submittal of data	1	2						\$50							
Completion and submittal of bi-monthly report of previous task data (March)	1	3						\$50							
Completion and submittal of bi-monthly report of previous task data (April)	1	3						\$50							
Completion and submittal of bi-monthly report of previous task data (May)	1	3						\$50							
Completion and submittal of bi-monthly report of previous task data (June)	1	3						\$50							
Completion and submittal of bi-monthly report of previous task data (September)	1	3						\$50							
Completion and submittal of bi-monthly report of previous task data (November)	1	3						\$50							
Completion and submittal of bi-monthly report of previous task data (January)	1	3						\$50							
Public meeting presentation (1 of 8)		4						\$50							
Public meeting presentation (2 of 8)		4						\$50							
Public meeting presentation (3 of 8)		4						\$50							
Public meeting presentation (4 of 8)		4						\$50							
Public meeting presentation (5 of 8)		4						\$50							
Public meeting presentation (6 of 8)		4						\$50							
Public meeting presentation (7 of 8)		4						\$50							
Public meeting presentation (8 of 8)		4						\$50							
Annual summary report (NLT January 30)	1.5	6			2			\$50							
Annual review of PDD Ordinances regarding Industry best management practices (NLT January 30)	4	8						\$50							
Annual review of PDD Ordinances regarding Industry best management practices (periodic - one time)	4	8						\$50							
Review of periodic compliance; coordination with City	4	8						\$50							
Various interactions with City staff during business hours on involving pertaining to project (March)	1	2						\$50							
Various interactions with City staff during business hours on involving pertaining to project (April)	1	2						\$50							
Various interactions with City staff during business hours on involving pertaining to project (May)	1	2						\$50							
Various interactions with City staff during business hours on involving pertaining to project (June)	1	2						\$50							
Various interactions with City staff during business hours on involving pertaining to project (July)	1	2						\$50							
Various interactions with City staff during business hours on involving pertaining to project (August)	1	2						\$50							
Various interactions with City staff during business hours on involving pertaining to project (September)	1	2						\$50							
Various interactions with City staff during business hours on involving pertaining to project (October)	1	2						\$50							
Various interactions with City staff during business hours on involving pertaining to project (November)	1	2						\$50							
Various interactions with City staff during business hours on involving pertaining to project (December)	1	2						\$50							
Various interactions with City staff during business hours on involving pertaining to project (January)	1	2						\$50							



Appendix D

Project Team Resumes



Stantec

Michael B. Roznowski, CHMM

INDUSTRIAL MARKET SECTOR LEADER

PROFESSIONAL REGISTRATIONS AND CERTIFICATIONS

- Certified Hazardous Material Manager (CHMM No. 011292)
- Engineer-in-Training – Pennsylvania
- Certified Stormwater Pollution Prevention Manager – Wisconsin
- Health & Safety Training for Hazardous Waste Operations (40-Hr. OSHA)

QUALIFICATIONS

Mr. Roznowski's vast knowledge and professional experience in engineering and project management spans over 16 years. Presently, he serves as our Industrial Market Team Leader. He is responsible for managing staff, overall direction of all project work, project financials, quality assurance/quality control of projects, staff technical training and development, timeliness of project deliverables and tracking regulatory trends. He also manages many of our highly visible projects, particularly those that may be controversial or involve public interaction.

Mr. Roznowski has successfully managed numerous industrial, commercial, residential and municipal projects. He is particularly knowledgeable about environmental, health and safety regulations for industrial facilities; most recently this has included a variety of frac sand mining and processing facilities. Mr. Roznowski and his staff guide our industrial clients by setting up and maintaining compliance programs at their facilities, and educating these clients on strategies for continued compliance. These projects range from Process Safety Management and Risk Management, to wastewater permitting and compliance, to storage facility design, permitting, and installation. Mike's wide-reaching experience allows him to contribute creative solutions on a variety of industrial projects.

AREAS OF EXPERTISE

- Non-Part 70 Air Operating Permits
- Ambient air quality monitoring (particulates and other NAAQs pollutants)
- Environmental audits
- Industrial noise evaluations and compliance with local/regional rules
- Industrial wastewater compliance assistance
- Spill Prevention, Control and Countermeasure Plans
- Storm-Water Pollution Prevention Plans
- SARA Tier II and Form R reporting
- Tank and fuel use management plans
- Microbial (mold) and other indoor contamination assessments; mold abatement/restoration plans
- EPA Risk Management (RMP), OSHA Process Safety Management Programs (PSM) audits and program development
- RMP guidance documentation & program seminars
- OSHA and DOT compliance and training programs
- Design and specifications of petroleum storage tank removal and installation (including all associated equipment)
- ASTM Transaction Screens and Phase I ESAs
- Phase II and III contaminant investigations and remedial action

PROFESSIONAL AFFILIATIONS/ MEMBERSHIPS

- Federation of Environmental Technologists
- Academy of Certified Hazardous Materials Managers

EDUCATION

M. Eng. Environmental Pollution Control, Pennsylvania State University – University Park, 1995

BS Civil Engineering, Marquette University, 1987



DAVID M. BOYD, P.E., M.B.A.
david.boyd@stantec.com

SENIOR LEVEL ENVIRONMENTAL MANAGEMENT PROFESSIONAL

Strategic and resourceful professional with more than 20 years of experience spanning industry, consulting, and a regulatory agency. Applies broad-based experience, along with exceptional analytical abilities to quickly discern current and future environmental risks, develop risk management strategies, and implement compliance and sustainability programs with an eye to the company's bottom line. Possesses strong communication, interpersonal and presentation skills. A versatile leader with ten years of experience developing and directing a corporate energy management team, including energy procurement, natural gas hedging, and prioritizing and implementing conservation projects. Areas of expertise include:

- Air and hazardous waste permits
- Environmental compliance audits
- Pollution prevention projects
- Industrial wastewater treatment systems
- Groundwater and soil investigations and remediation systems
- Environmental metrics
- Industrial process improvements
- Strategic due diligence in divestitures and acquisitions
- Regulatory negotiation with USEPA and state agencies
- RoHS/WEEE, Automotive Directive, and other end product related regulations
- Greenhouse Gas emission inventories
- Strategic Energy Management
- Industrial Hygiene Improvements

PROFESSIONAL EXPERIENCE

Stantec Consulting Services, Inc., Mequon, WI

2012 – current

- Assisting several clients on air pollution control construction operation permits and renewals. Notable clients include large motorcycle manufacturing company headquartered in Milwaukee, and several frac sand mining and processing clients in west-central Wisconsin.
- Coordinate and provide technical guidance on ambient air sampling for particulate matter adjacent mining and frac sand processing facilities.
- Assessing facilities for current compliance with EPA and WDNR environmental regulations, including air, solid and hazardous waste management, annual environmental reporting, etc.
- Development of EPA Spill Prevention Control and Countermeasure (SPCC) Plans.
- Assist municipality with citizen odor complaints regarding manufacturing plant.

Boyd Environmental & Energy Strategies LLC, Waukesha, WI

2010 – 2012

- Assisting a large manufacturer with the creation of an energy management system. Identifying and prioritizing conservation opportunities. Developing energy usage metrics, goals, and tracking strategy.
- Providing a manufacturer of outdoor home care tools with advice and guidance on engine and product certification issues.
- Designed and installed a wastewater treatment system for coolants and washer dumps for an engine manufacturer.
- Providing guidance on clean air permitting and reporting issues for clients.
- Provided environmental cleanup oversight on a large petroleum spill.

RMT, Inc. (now TRC Corporation)

2007-2010

Senior Client Service Manager

Drove business development and provided strategic environmental, energy, and sustainability solutions to industrial clients.

- Harley-Davidson had identified nine key performance indicators and reduction goals for their environmental performance. More than 1000 operational excellence projects identified by the corporation were reviewed to determine whether the goals were achievable and which projects were of primary importance to making the goals happen. Developed a tool and systematic approach to review future projects for environmental benefit.



Stantec

- A New Berlin, Wisconsin manufacturer received notice of a pending EPA enforcement action. Quick response and thorough documentation reduced the scope of the noncompliance issues. Implemented systems to assure continued compliance.
- Developed and implemented tools, training and webinars for RMT sales and engineering professionals for the implementation of the Mandatory Greenhouse Gas Reporting Rule and the preparation of the required monitoring plans. Also delivered training to up to 400 clients through webinars.
- Managed the implementation of a task management software program for US Oil's terminal operations throughout Wisconsin.
- Assisted Wixon Chemical with a response to USEPA on air emissions from food additive production.
- Developed air emission estimates for a specialty chemical manufacturer.

BRIGGS & STRATTON CORPORATION, Milwaukee, WI

1995 - 2007

Global manufacturer of air cooled gasoline engines and engine powered outdoor equipment.

Corporate Environmental and Energy Manager

Managed and coordinated the daily activities of eight corporate staff personnel and provided guidance to up to 15 divisional personnel. Developed and implemented departmental operating plans with responsibility for annual operating and capital budgets exceeding \$2MM per year. Operations were located in up to nine states and two foreign countries (Czech Republic and China). Developed and managed \$25 million energy budget for the corporation, including price controls and consumption reduction teams.

- Initially hired to develop new staff, change culture, and create corporate team. Developed new systems and service offerings to the operating divisions. Created a team that was well respected throughout the corporation as providing value and eliminating risks.
- Managed the design and installation of a new gasoline storage and distribution system for the engine test houses. Oversaw the SPCC upgrades of all petroleum product systems at all B&S plants in accordance with most recent regulatory revisions.
- In 2003, anticipating demand from European customers, established a team including engineering, purchasing, quality, marketing, and sales to systematically convert engines and end products to conform to European Union RoHS directive. The regulation did not directly apply to B&S products, but by 2008, customers were beginning to request certification.
- Identified and directed pollution prevention initiatives, including iron plating of pistons and reductions of emissions from painting. The iron plating project eliminated the use of cyanide, hexavalent chromium, and nickel, increased production throughput and saved the company over \$2 million per year. Hazardous air pollutants were eliminated from engine paints in 1997, a decade before regulations would require those actions. The reduction allowed all of the plants to be permitted as minor sources of hazardous air pollutants and reduced the impact of MACT regulations on the plants.
- Participated in the negotiation of new environmental standards with state and federal regulators.
- Assured corporate environmental compliance at facilities in nine states and two foreign countries (China and Czech Republic). Implemented a program of annual internal environmental audits supplemented by external audits on a less frequent basis.
- Created and managed an overall energy management team. Prioritized projects and obtained management support and capital for implementation. Negotiated natural gas and electricity supply contracts in deregulated states. Developed energy consumption correlations for the plants that were used by accounting for budgeting purposes and documented savings from conservation programs.
- Directed and advised the natural gas hedging board consisting of the CFO, Controller, VP of Operations, Treasurer and VP of Purchasing. This board assured upper management that price was being controlled and allowed the plants to concentrate on consumption.
- Directed a corporate-wide coolant mist reduction team. Coolant mist had become a major industrial hygiene issue associated with employee retention. The systematic reduction of coolant mist eliminated the complaints, improved machining operations, and reduced coolant usage.
- Performed or directed the design and operation of pollution control systems, including oxidizers, scrubbers, wastewater treatment and remediation systems. A 30,000 cfm Regenerative Thermal Oxidizer was installed on engine testing operations and a 2,000 cfm catalytic oxidizer was installed on the painting oven for the Czech plant.
- Performed and approved environmental audits of corporate facilities and environmentally sensitive vendors.



- Directed the investigation and closure of corporate remediation and landfill sites.
- Was President of Future Parkland Development Incorporated, which was a wholly-owned subsidiary of Briggs & Stratton Corporation and provided landfill services to the foundries.
- Responsible for the environmental aspects of all corporate acquisitions and divestitures. B&S self-performed most environmental due diligence activities.
- Oversaw the demolition of 500,000 square feet of manufacturing space, which included asbestos removal, and groundwater and soil investigation in accordance with WDNR VPLE requirements.

Various Consulting Companies

1985 - 1995

(Triad Engineering, OSM Associates, Wenck Associates, RMT Inc.)

Project Manager or Project Engineer

- Managed the completion and submission of Title V air permit applications for Briggs & Stratton Corporation, Case Corporation, Brillion Iron Works and other facilities. Emission spreadsheets, documentation principles, and application processes that were developed became corporate standards still used by RMT to the present time.
- Developed remedial options and treatment system designs for various ground and soil contamination sites.
- Developed the closure plan for a lead contaminated site utilizing soil washing technology at a federal superfund site.
- Prepared a Part B permit application for an agricultural chemical manufacturer, which included directing groundwater contamination investigation in accordance with RCRA requirements.
- Developed remedial options and treatment system designs for various groundwater and soil contamination sites including state and federal superfund sites and underground storage tank releases.
- Developed the treatment system design for groundwater treatment at a former landfill site.
- Completed air impact modeling for a solid waste incinerator.
- Designed and managed the construction of wastewater treatment systems for various clients.
- Prepared air permit and Part B permit applications for various clients.
- Provided design engineering for a large scale oat hull processing facility.

WISCONSIN DEPARTMENT OF NATURAL RESOURCES, Milwaukee, WI

1983 - 1985

Environmental Engineer

- Inspected industrial facilities for compliance with air and hazardous waste regulations.

EDUCATION AND TRAINING

M.B.A., Marquette University, Milwaukee, Wisconsin, 1999

B.S., Chemical Engineering, University of Wisconsin - Madison, 1981

REGISTRATIONS AND CERTIFICATIONS

Registered Professional Engineer—Wisconsin

Allan Rick Schmidt PE

Engineer



Rick's responsibilities include overseeing the day-to-day activities at the firm's Milwaukee office, and guiding this local team of professionals. One of his primary responsibilities is to work closely with our project managers and client communities, with the goal of helping these communities manage infrastructure associated with residential, commercial, and industrial development. Rick is adept at leading our community involvement efforts and assisting our clients communicate in public forums.

EDUCATION

Bachelor of Science/Civil Engineering, University of Wisconsin, Platteville, Wisconsin, 1981

REGISTRATIONS

Professional Engineer #E-24555, State of Wisconsin

MEMBERSHIPS

Member, American Council of Engineering Companies

Member, American Public Works Association

Member, National Society of Professional Engineers

PROJECT EXPERIENCE

Civil Engineering

Eaton Corporation, Menomonee Falls, Wisconsin
(Project Manager)

Eaton Corporation recently decided to relocate and build a new state of the art facility in the Village of Menomonee Falls, Wisconsin. Rick was the project manager providing a full compliment of civil site services including: preliminary engineering, stormwater management, grading analysis & earthwork balance, final design plans & specifications, LEED coordination for water resources and construction services. Project construction began in the Fall of 2011 and is expected to be completed in the Fall of 2012.

Quality Control and Assurance (Client Services Manager/Project Manager)

Rick has served as a client services manager and project manager for many clients and projects over his tenure. He understands what is needed to get the job done efficiently and effectively. In addition to working closely with our firm's client teams, he solicits reviews of our team's performance, independent of the firm's technical teams servicing our clients with the goal of obtaining open and honest feedback. Rick's role is to see that our technical teams and management staff continue to enhance the quality of our service and strengthen client relationships.

Civil Engineering

Rick has led a variety of municipal infrastructure projects. With more than 25 years of experience, Rick's efforts have been focused on providing practical client solutions to complex engineering problems. His responsibilities have included project management, design engineering, cost estimation, regulatory approvals, project planning, and water resource management for industrial, commercial, residential, and utility projects. Rick understands the challenges and opportunities facing municipalities and will apply this insight to deliver quality services.

Client Commitment

As in any relationship, issues arise that need to be resolved quickly. As a company, we place trust in employees we assign to work directly with our clients and empower them to make decisions based on the highest standards of professional codes. If any of our staff needs assistance in resolving an issue, Rick has the authority to resolve issues effectively.

* denotes projects completed with other firms

Allen, Rick Schirich

in general

Floodplain Management

Bridge Street Dam Improvements, Grafton, Wisconsin
Stantec was hired by the village to evaluate dam repair options for the West abutment. Stantec's report consisted of a variety of options targeted to gain efficiencies in the dam with low flow discharges as well consider options for gates for maintenance purposes. Our approach was to evaluate several alternatives, provide cost estimates and provide schematic floodplain modeling to assist in alternative design as well as potential for floodplain adjustments. Rick as member of this team provided overall project team coordination and quality assurance of the report, engineering schematic design and cost estimates. This report provided the basis for the village to make decisions going forward for a submittal of a grant to the Wisconsin Department of Natural Resources (WDNR) as well as defining the improvements to the West Abutment.

Milwaukee River Dredging Study*, Grafton, Wisconsin
Stantec was hired by the village to evaluate the sediment deposition upstream of the Bridge street dam and provide alternatives and cost for removal. Stantec has provided extensive analysis of these upstream sediments and with this knowledge we were able to provide realistic options and cost to remove this sediment. Our overall recommendation was to dredge approximately 28,000 CY of sediment upstream of the Bridge Street dam and dispose of this material on the Grafton High school property. Rick provided the schematic engineering and overall quality assurance for this project.

Redevelopment Plans

Downtown Redevelopment, Jackson, Wisconsin (Project Manager)

This project provides the opportunity for infrastructure improvements and enhancements so that State Street can serve as a gateway to downtown Racine, and improvement of the safety and interaction of motor vehicles and pedestrians. Rick was the principal in charge of a team of professionals focused on providing a unique streetscape experience while reconstructing the roadway. The presence of existing unique architectural elements, such as the Metro Transit Center for the Belle Urban System (BUS) line on the west end of the street, and the Case Building on the east end, offer opportunities to include local details into streetscape elements.

Roadways

STH 38 - State Street Reconstruction and Streetscape, Racine, Wisconsin (Project Manager)

This project provides the opportunity for infrastructure improvements and enhancements so that State Street can serve as a gateway to downtown Racine, and improvement of the safety and interaction of motor vehicles and pedestrians. Rick was the principal in charge of a team of professionals focused on providing a unique streetscape experience while reconstructing the roadway. The presence of existing unique architectural elements, such as the Metro Transit Center for the Belle Urban System (BUS) line on the west end of the street, and the Case Building on the east end, offer opportunities to include local details into streetscape elements.

Site Development

The Gateway Development, Grafton, Wisconsin (Project Manager)

Rick was the project manager for a site development project involving three building sites for a hotel, a convenience store/gas station, and restaurant on the southeast corner of Interstate 43 at State Highway 60 in Grafton. The design team implemented the design of bio-filtration devices for roadways and parking lots associated with the project site. The 225 car parking lot serves all three developments and includes ten different bio-filtration and rain garden BMPs. This project also included remapping of the floodplain, roadway designs, and site utilities.

Urban Land Engineering

Woodland Prime, Milwaukee, Wisconsin (Project Manager)

Rick worked closely with village officials and the owner to develop a Tax Incremental District for this unique project. Rick was responsible to oversee the preparation of civil site engineering plans for this 150-acre office park. Design elements include traffic signal improvements, intersection reconstruction, streetscaping, site grading, and street and utility plans.

* denotes projects completed with other firms

Daniel G. Feldt MPH, CIH

Senior Industrial Hygienist



Mr. Feldt has 31 years of professional experience in industrial hygiene and project management. As a senior project manager in the Industrial Division, Mr. Feldt is responsible for overseeing OSHA compliance programs and managing a wide range of industrial hygiene, safety, and indoor air quality projects.

Throughout his experience, Mr. Feldt has worked with clients ranging in size from 20 to 60,000 employees. Having worked in several facets of industrial compliance, Mr. Feldt has developed a strong understanding of client needs. His expertise includes general industrial hygiene, indoor air quality, asbestos management, emergency action planning, process safety management, and noise/hearing conservation. He has also provided expert witness assistance for numerous worker's compensation cases.

Mr. Feldt is recognized by his peers as an expert in his field. He has served three terms (1987, 1992, 2007) as president of the Wisconsin Section of the American Industrial Hygiene Association. In 1996, he received the Byron Berg Award for outstanding contribution and service to the field of industrial hygiene from the Wisconsin Section of the AIHA. He has also served as a guest lecturer at the Milwaukee School of Engineering and the University of Illinois, Chicago, and has presented a number of short courses, seminars, and training sessions on industrial hygiene and related topics.

EDUCATION

M.P.H. Industrial Hygiene, University of Minnesota, Minneapolis, Minnesota, 1980

M.S. Pathology, University of Wisconsin, Madison, Wisconsin, 1978

B.S. Zoology, University of Wisconsin, Oshkosh, Wisconsin, 1975

Health & Safety Training for Hazardous Waste Operations, OSHA, 40-hour, with annual refreshers, 1992

REGISTRATIONS

Certified Industrial Hygienist #3741, American Board of Industrial Hygiene

MEMBERSHIPS

Member, Wisconsin Section, American Industrial Hygiene Association

Diplomat, American Academy of Industrial Hygiene, American Industrial Hygiene Association

National Member, American Industrial Hygiene Association

AWARDS

1996 Byron Berg Award - Wisconsin Section AHA

PROJECT EXPERIENCE

Emergency Planning / Response

U.S. Veterans Administration Hospital, Tomah, Wisconsin (Project Manager)

Responsible for development of an emergency action plan.

Ore-Ida Foods, Plover, Wisconsin (Project Manager)

Responsible for development of an emergency action plan.

Midwest Aluminum Scrap Recycler (Project Manager)

Responsible for preparing emergency response plans for multiple sites.

Expert Testimony / Witness

Law Firm of Herrling Clark, Appleton, Wisconsin

Expert witness in a mold-related matter.

Lindner & Marsack, S.C., Milwaukee, Wisconsin

Expert witness in worker's compensation claim of work-related asbestos lung cancer against a client.

Wausau Insurance, Milwaukee, Wisconsin (Principal Investigator)

Responsible for an investigation of an alleged work-related case of histoplasma meningoenophthalitis.

* denotes projects completed with other firms

Daniel C. Leikert

Senior Industrial Hygienist

Kasdorf, Lewis & Swiellik, S.C.

Expert witness and project industrial hygienist in a lung disease worker's compensation case, including an air monitoring investigation.

Wisconsin Electric Power Co., Milwaukee, Wisconsin

Expert witness in a civil suit associated with a customer claim of asbestos damages.

Metal Fabrication Facility, North Central Wisconsin

Primary consultant for investigation of a confined space fatality.

Confidential Client

Expert witness in an asbestos class action suit brought jointly against a construction company and a school district.

Confidential Client

Expert witness in class action suit involving seven cases of alleged Reactive Airway Disease after exposure to a chlorine dioxide.

Milwaukee Metropolitan Sewerage District, Milwaukee, Wisconsin

Expert witness for a worker's compensation disease claim.

University of Wisconsin

Expert witness for State of Wisconsin in a civil suit related to an asbestos-contaminated building.

Gabert, Williams, Konz & Lawrynk, Appleton, Wisconsin

Expert witness for mold claim.

Boardman Law Firm, Madison, Wisconsin

Expert witness for mold claim.

Crivello, Carlson Law Firm, Milwaukee, Wisconsin

Expert witness for mold claim.

US Department of Interior - Funds Recovery

Expert witness in federal district court, on behalf of the US Department of Interior, related to recovery of funds paid under false pretenses to a mold consultant by an Indian Tribal Government in the upper Midwest.

Industrial Facility, Northern Wisconsin.

Expert witness in a worker's compensation case of alleged Parkinson's Syndrome related to welding activities.

Noise / Acoustics

Soy Processing Facility, Southern Wisconsin (Principal Industrial Hygienist)

Responsible for a noise dosimetry survey and noise mapping.

Major Food Processor, Various Locations (Project Manager/Lead Industrial Hygienist)

Responsible for noise dosimetry surveys and noise mapping at 12 Midwest and Central U.S. grain handling facilities.

Industrial Gas Processor/Filler, Phoenix, Arizona (Principal Industrial Hygienist)

Responsible for a noise dosimetry survey.

Coca-Cola Bottling Company, Atlanta, Georgia (Principal Industrial Hygienist)

Responsible for a noise dosimetry survey at three facilities.

Packaging Corporation of America (PCA), Los Angeles, California (Principal Industrial Hygienist)

Responsible for a noise dosimetry survey at this facility.

Rayonier Wood Products, Eatonton, Georgia (Principal Industrial Hygienist)

Responsible for a noise dosimetry survey.

Cargill Grain, New Orleans, Louisiana (Project Manager)

Responsible for a noise dosimetry study at six facilities.

Stone Container Corp., Germantown, Wisconsin (Principal Industrial Hygienist)

Responsible for a noise dosimetry survey.

Nestle USA, Eau Claire, Wisconsin (Principal Industrial Hygienist)

Responsible for community noise surveys.

Peterson Aviation, Van Nuys, California (Principal Industrial Hygienist)

Responsible for a noise dosimetry study.

SKF Bearings, Jamestown and Falconer, New York (Principal Industrial Hygienist)

Responsible for noise surveys and control recommendations at two facilities.

* denotes projects completed with other firms

Principal Consultant

Industrial Hygienist

American Gypsum's Board Plant and Quarry, Duke,
Oklahoma (Principal Industrial Hygienist)
Responsible for a noise dosimetry study.

Moore Graphics Company, Monroe, Wisconsin
(Principal Industrial Hygienist)
Responsible for a noise dosimetry study.

United States Postal Service, Milwaukee, Wisconsin
(Project Manager)
Responsible for a noise dosimetry study at the main station.

Miller Brewing Company, Milwaukee, Wisconsin
(Principal Industrial Hygienist)
Responsible for three community noise surveys.

Wisconsin Electric's Point Beach Nuclear Plant (Principal
Industrial Hygienist)
*Responsible for an investigation of control room alarm levels
and frequencies.*

Chicago & Northwestern Railroad
*Retained by law firm representing the railroad to investigate the
risk of hearing loss for locomotive operators.*

Kenosha Public Schools (Project Manager and)
*Expert witness for a law firm representing Kenosha Public
Schools in a community noise suit.*

Frito-Lay, Milwaukee, Wisconsin (Project
Manager/Principal Investigator)
Responsible for a community noise control investigation.

Non-Ferrous Foundry, Milwaukee Area, Wisconsin
*Developed and assisted in implementation of a lead and noise
control program.*

Moore North America, Iowa City, Iowa (Principal
Industrial Hygienist)
Responsible for a noise dosimetry survey.

Cargill Salt, Ithaca, New York (Principal Industrial
Hygienist)
Responsible for a noise dosimetry survey.

Printing Facilities, Central Wisconsin (Principal Industrial
Hygienist)
*Responsible for a noise dosimetry survey and noise mapping at
two large .*

Paul J. Giese, P.E.

Geotechnical Engineering Division Manager

Education

- B.S. Geological Engineering (Geotechnical Emphasis)
Institute of Technology – University of Minnesota, 1984

Professional Registration and Certification

- Professional Engineer – Wisconsin, California
- WIDCOMM Certified Soil Tester (CST)

Experience

Mr. Giese has more than 27 years of experience in the environmental and geotechnical engineering fields. He has prepared thousands of geotechnical engineering reports for commercial, industrial, government and residential projects throughout the United States. These reports have included forensic evaluations of distressed pavements and building components. Mr. Giese's experience also includes project management of site investigations and remediations. As Geotechnical Engineering Division Manager, he is responsible for geotechnical engineering day-to-day operations, including addressing client needs, staffing, expanding into new territories, as well as project management and supervision of the department. His duties also include preparation and senior review of geotechnical engineering reports.

Previously, Mr. Giese served as Division Manager for the Giles Environmental Division. Mr. Giese's environmental involvement included management of the division including supervision of an 18-20 person staff of project and staff level professionals, field technicians and laboratory technicians.

Technical Training

- Property Condition Assessments Course (ASTM Technical and Professional Training); Giles Engineering Associates, Inc., Waukesha, WI - 2006
- RocTest Pressuremeter Training Course; Montreal, Canada - 2005
- ASCE Webinars regarding Load Resistance Factor Design (LRFD)

Mr. Giese has also presented continuing education seminars to professional engineers and architects in Virginia, Maryland, Georgia, South Carolina, North Carolina, Florida and Wisconsin, including the following topics:

- How to Read a Geotechnical Engineering Report
- Segmental Retaining Walls
- Soil Compaction and Stability
- Soil Stabilization

Affiliations

- American Society of Civil Engineers
- ASFE – Professional Firms Practicing in the GeoSciences
- American Consulting Engineers Council
- Order of the Engineer

Steven P. Homar, P.E.

Assistant CMT Division Manager and Waukesha CMT Quality Manager

Education

- B.S. Civil Engineering, University of Minnesota, 1995

Professional Registration and Certification

- Professional Engineer - Wisconsin
- Member, ASTM International, serving on Committee E36 on Accreditation and Certification
- Member, American Concrete Institute (ACI) and Certified ACI Concrete Field Testing Technician I
- Wisconsin Concrete Pipe Association
- Wisconsin Masonry Alliance
- Certified WisDOT Aggregate Sampling, Nuclear Density, Aggregate Testing and Concrete Compressive Strength Testing Technician
- CPN, Radiation Safety for Portable Gauge Users
- OSHA Hazard Communication (chemical safety) and Process-Safety Management

Experience

Mr. Homar has 16 years of professional experience in inspection and report writing, all of the experience gained as an employee of the firm. He directs and schedules activities of 10 to 25 field technicians. His responsibilities include preparing proposals for construction materials observation and testing projects, and writing and reviewing field observation and testing reports.

Mr. Homar created and maintains several computer databases used in the everyday operation of the corporate and branch office CMT divisions. He also has experience performing field construction materials observation and testing of asphalt, aggregate, soils, reinforced concrete and masonry, and lime stabilization of unsuitable soils. Mr. Homar has performed laboratory testing of asphalt, aggregate, soil and concrete. While at the University of Minnesota, he was involved in the student chapter of the American Society of Civil Engineers, serving as an officer. Academically, Mr. Homar concentrated in highway engineering, pavement design, pavement materials, construction materials, and soil mechanics. Mr. Homar has managed and/or reviewed testing activities for the following projects:

- **City of Milwaukee, Milwaukee, WI** – Annual street construction contract (1997-2008, 2011 to present)
- **Waukesha Electric Expansion, Waukesha, WI** – 140,000 square foot expansion of the industrial facility and expansion of the surface parking area.
- **Summerfest South End Improvements, Milwaukee, WI** – Construction of new main park entrance, new amphitheater, and numerous new buildings on the grounds
- **Wisconsin Concrete Pipe Association (WCPA)** – On-site assessment at various member plants with regard to their quality control systems and records for annual approval for use on WisDOT projects.
- **General Mitchell International Airport, Milwaukee, WI** – Various runway and taxiway pavements, 3,000 space parking facility addition; power plant demolition and new facility construction.
- **Monroe Clinic Northwest Addition, Monroe, WI** – Construction of a four-story, 260,000 square foot addition to the existing medical facility
- **Marquette University Law School – Eckstein Hall, Milwaukee, WI** – Construction of 205,000 square foot building and underground parking to house the law library and provide additional classroom space.
- **Northwestern Mutual Life Insurance, Franklin, WI** – Construction of a 400,000 square foot building and multi-level parking structure
- **Bayshore Town Center, Glendale, WI** – 400,000 square feet of retail; 100,000 square feet of office space; 3,500 parking spaces, including a three-level parking structure, a two-level parking structure and underground parking
- **Roundy's Corp. Distribution Center, Oconomowoc, WI** – Site grading, surface parking, and 1.1 million square foot warehouse
- **GE Medical Facilities, Milwaukee and Pewaukee, WI** – Construction of various buildings
- **Children's Hospital of Wisconsin, Wauwatosa, WI** – 1,600 space parking structure; eight-story, 290,000 square foot office building; and 12-story, 425,000 square foot bed tower expansion
- **Butler Ridge 36-Unit Wind Farm, Mayville, WI** – Several miles of access roads, 36 wind turbine foundations

Angela A. Jacobi

Project Manager

Education

- B.S. Civil Engineering, University of Wisconsin-Milwaukee, 2004

Experience

Ms. Jacobi has more than 8 years of experience with 4 of those years spent supervising subsurface explorations and preparation of geotechnical reports. She has prepared more than 400 geotechnical reports for commercial, industrial, government and residential projects throughout the United States. Her reports have included several pavement evaluations. Her experience also includes observation and evaluation of soils, rock and pavements, as well as assigning and conducting laboratory testing. She also has 4 years of experience as a construction materials testing field engineer, which includes performing soil, concrete, asphalt and rebar inspection. In addition, Ms. Jacobi has conducted Phase I Environmental Site Assessments (ESAs). Her project experience includes:

- **Maggiano's Little Italy, Orlando, FL** – Field engineer responsible for concrete evaluation and testing
- **St. Francis Roadway Reconstruction Program, St. Francis, WI** – Preparation of Geotechnical Engineering Exploration and Analysis report for the reconstruction of multiple roadways
- **St. Francis Library Building Addition, St. Francis, WI** – Geotechnical engineer responsible for preparation of Geotechnical Engineering Exploration and Analysis report for the construction of a library addition, as well as performed soil evaluations during construction
- **Social Security Building, Greenfield, WI** – Geotechnical engineer responsible for preparation of Geotechnical Engineering Exploration and Analysis report for the construction of a building, pavement and pond
- **Residence, Destin, FL** – Geotechnical engineer responsible for preparation of Geotechnical Engineering Exploration and Analysis report for the construction of a residence
- **Roundy's Distribution Center, Oconomowoc, WI** – Field engineer responsible for concrete, asphalt, soil and rebar inspection, evaluation and testing
- **Mitchell Interchange, Milwaukee, WI** – Field engineer responsible for concrete testing, aggregate sampling and laboratory testing, and data entry on Material Reporting System (MRS)

Technical Training

- Property Condition Assessments Course (ASTM Technical and Professional Training); Giles Engineering Associates, Inc., Waukesha, WI, 2006
- WisDOT AGGTEC II
- WisDOT PCCTEC I

Appiliations

- Order of the Engineer

David Adrian

Field Technician

Education

- B.S. Earth Science, University of Wisconsin – Oshkosh

Professional Registration and Certification

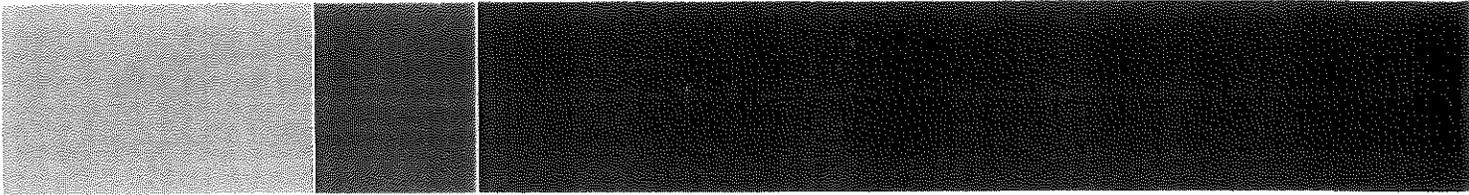
- American Concrete Institute (ACI), Concrete Field Testing Technician I
- CPN, Radiation Safety for Portable Gauge Users

Experience

Mr. Adrian has extensive experience in field construction materials testing and observation of soil, concrete, masonry, and asphalt. He also performs pile driving inspection, reinforcing steel inspection, observation of post-tensioning of cables, and spray-applied fire proofing testing.

His project experience includes:

- **Bayshore Town Center, Glendale, WI** – 400,000 square feet of retail; 100,000 square feet of office space; 3,500 parking spaces, including a three-level parking structure, a two-level parking structure and underground parking.
- **Children’s Hospital of Wisconsin, Wauwatosa, WI** – 1,600 space parking structure; eight-story, 290,000 square foot office building.
- **The Blood Center of Southeast Wisconsin, Milwaukee, WI** – Construction of a 5,000 square foot building and accompanying parking lot.
- **Cherry Court, Milwaukee, WI** – Construction of a five-story mid-rise multi-family housing structure.
- **Northwestern Mutual Life Insurance, Oak Creek, WI** – Construction of a 400,000 square foot building and 500,000 square foot multi-level parking structure.
- **Actuant Office Headquarters Building, Menomonee Falls, WI** – Construction of a two-story 73,000 square foot structure with a partial lower level and accompanying parking lot.
- **Waukesha Electric Building Addition, Waukesha, WI** – 120,000 square foot addition with pile foundations and accompanying parking lot.



Appendix E

Appendix B Project Costs Worksheet from RFP

**City of Franklin – Quarry Monitoring Services
Request for Proposals**

Appendix B – Project Costs Part 1.

Base Bi-Monthly Charges:

1. Blast Monitoring, Data Collection, and Evaluation

- a) Review Blasting Reports: Included
- b) Fixed-Location Blast Monitoring
with a City-provided seismograph: Included
- c) Mobile-Location Blast Monitoring: Included
- d) Check Blasting Records Included

Cost for Scope of Work #1 (A) \$ 59,000

2. Air Quality Monitoring, Data Collection, and Evaluation

PM10 Monitoring: with Consultant-Provided Aerosol Monitor [2.a] (B) \$ 46,000

3. Quarry Operations Monitoring and Monitoring by Direct Observation

- a) Site Visits: Included
- b) Direct Air Quality Observation: Included
- c) Quarry Operations Review: Included

Cost for Scope of Work #3 (C) \$ 12,000

4. Additional PDD Compliance and

5. Reporting Requirements and Coordination with City Staff.

Subtotal All Bi-Monthly Responsibilities (D) \$ 37,000

SUBTOTAL BASE TOTAL COSTS (A) + (B) + (C) + (D) = (E) \$ 154,000

Annual Reporting Requirement [Scope of Work 5.c] (F) \$ 5,000

TOTAL BASE ANNUAL COSTS (E) + (F) \$ 159,000

**City of Franklin – Quarry Monitoring Services
Request for Proposals**

Appendix B – Project Costs Part 2.

Additional Required Costs or Cost Adjustments Per Scope of Work

1. Blast Monitoring, Data Collection, and Evaluation

- a) Additional Cost for Scope of Work #1 if the Proposing Consultant supplies the Fixed-Location Blast Monitoring seismograph
Possible adjustment to Project Costs Part 1. (A) \$ 6,000
- c) Additional Mobile-Location Blast Monitoring:
“Furthermore, the contractor will provide a cost per placement (as described above) for any additional calls for seismograph services or placement, beyond those numbers and uses set forth above.” [From Scope of Work 1.c) iii..]
Unit cost pricing or possible adjustment to Project Costs Part 1. (A) \$ 730

2. Air Quality Monitoring, Data Collection, and Evaluation

Reduction to Cost (B) with City-Provided aerosol monitor
Possible adjustment to Project Costs Part 1. (B) (-\$ 10,500)

Additional Cost for each placement of a Consultant-provided aerosol monitor
[From Scope of Work 2. a) ii.]
Unit cost pricing/possible adjustment to Project Costs Part 1.(B) \$ 7900

Additional Cost for each placement of a City-provided aerosol monitor
[As may be required per Scope of Work 2. b)]
Unit cost pricing/possible adjustment to Project Costs Part 1. (B) \$ 6,300

NOTE: BOTH OF THESE OPTIONS INCLUDE ALL LABOR, EQUIPMENT, MILEAGE, LABORATORY COSTS FOR ONE FULL WEEK (7 DAYS) OF SAMPLING.

SCS BT SQUARED

June 8, 2012
File No. 25277212

Mr. Joel Dietl, AICP, Planning Manager
Department of City Development
City of Franklin
9229 W. Loomis Road
Franklin, WI 53132

Subject: Proposal for Quarry Monitoring Services for the City of Franklin

Dear Mr. Dietl:

Thank you for the opportunity to present our proposal for quarry monitoring services for the City of Franklin, and to introduce our firm to the City of Franklin. SCS BT Squared (SCS) began in 1992 as BT Squared, Inc., an environmental consulting firm focused on assisting clients with environmental investigation and remediation projects. BT Squared diversified and evolved through time into a full-service civil and environmental engineering company, and in 2011, merged with SCS Engineers, an environmental engineering and construction firm with 725 employees in 54 offices across the United States. Through the merger, BT Squared became SCS BT Squared and serves as the Upper Midwest Region of SCS with offices in Madison, Milwaukee, Lake Delton, Wisconsin, and Chicago, Illinois. We are confident that we have the expertise and experience needed to assist the City of Franklin with monitoring quarry operations that affect the City and its citizens.

We understand that the City wishes to monitor the adjoining limestone quarries, owned by Vulcan Materials Company, and Payne & Dolan, Inc., in accordance with specifications outlined in the Planned Development District (PDD) zoning for the quarries. The main components of the monitoring program are blast monitoring and air monitoring for particulates.

We are very pleased to present Dr. Robert W. Taylor, Professor Emeritus, University of Wisconsin, Milwaukee, as a member of our project team. From 2002 to 2005, Professor Taylor served as consultant to Ruckert and Mielke on the monitoring of ground vibrations generated by quarry operations in the City of Franklin. Professor Taylor will serve in a similar capacity on our project team. He will assist SCS personnel with activation of the seismographs, analysis of seismographs, preparation of ground vibration reports, and supervise and analyze the seismograph comparison tests, among other activities.

SCS Tracer Environmental, San Marcos, California, will take the lead with providing technical management, logistical planning, data review, report preparation, and QA/QC oversight for the air monitoring aspect of the project. SCS Tracer has in-depth experience with monitoring system design, source emission tests, and continuous process monitors.

City of Franklin
June 8, 2012
Page 2

SCS staff from our Milwaukee and Madison offices will perform the field aspects of the blast and air monitoring. The quarry site visits, direct air quality observations, quarry records reviews, and reporting will be performed by staff that are familiar surface mining operations through their roles as geologists on several projects, and that have completed the new miner training required by the Mine Safety and Health Organization (MSHA) under 30 CFR Part 46 for surface mines.

Please review our attached proposal for a more detailed description of our expertise and experience and of our approach to providing quarry monitoring services to the City of Franklin.

Sincerely,



Betty J. Socha, PhD, PG
Senior Project Manager
SCS BT SQUARED



Mark R. Huber, PE
Vice President/Project Director
SCS BT SQUARED

BJS/lmh/MRH

cc: Professor Robert W. Taylor, PhD
Paul Schafer, SCS Tracer Environmental

Enclosure: Proposal for Quarry Monitoring Services for the City of Franklin

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**Proposal for Quarry Monitoring Services
City of Franklin, Wisconsin**

Presented To:

**Office of the City Clerk
City of Franklin
9229 West Loomis Road
Franklin, Wisconsin 53132**

Presented From:

**SCS BT SQUARED
2830 Dairy Drive
Madison, Wisconsin 53718-6751
(608) 224-2830**

June 2012
File No. 25277212

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- A Request for Proposal for Quarry Monitoring Services for the City of Franklin, WI
- B Work Program/Cost Estimate Detail
- C PDD – Sections Related to Quarry Monitoring (Pages 27 through 31)
- D SCS Tracer Environmental – Statement of Qualifications
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- H Fee Schedule

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INTRODUCTION

The City of Franklin has requested assistance in monitoring two adjoining operating limestone quarries, owned by Vulcan Materials Company, and Payne & Dolan, Inc. (d/b/a: Franklin Aggregates). The City adopted Planned Development District (PDD) zoning for the quarries in 1997, which allows for extraction of limestone in certain areas and under certain performance criteria and standards. SCS BT Squared (SCS) is providing the following proposal to assist the City in monitoring quarry operations based on the criteria and standards stated in the PDD Ordinances. This proposal is prepared in response to the Request for Proposals for Quarry Monitoring Services for the City of Franklin, issued May 17, 2012 (**Attachment A**).

BACKGROUND

Extraction of limestone at the quarries began, prior to the City becoming an incorporated municipality in 1956. In the early 1990s, voluntary blasting guidelines were developed and agreed upon by the quarry operators. Proposed expansion plans by the quarries lead to the development and adoption of the PDD, and the listing of criteria as standards.

For several years, the City of Franklin Fire Department was responsible for collecting blasting data and handling complaints of quarry operations from citizens. The Fire Department periodically used a seismograph to verify blasting information. Additional monitoring in the past included air monitoring by the Wisconsin Department of Natural Resources (WDNR) who operated two air quality monitoring stations near the quarries for the purpose of monitoring the air quality impacts from the quarries. However, the WDNR has discontinued the monitoring. The most extensive monitoring was done from 2002 to 2005, when the City contracted with a consultant for monitoring the quarries. Each quarry operator has continued to report blast results.

SCOPE OF WORK

The work scope consists of periodic blasting and air quality monitoring, analyzing monitoring results, preparation of reports, and communicating the reports with City Staff, the Common Council, and boards and/or commissions, as needed. Periodically study results will be presented at public meetings. The following work program is based on the scope of work as provided in the request for proposal (RFP) and the June 6, 2012, response to bidders questions (**Attachment A**).

WORK PROGRAM

The Work Program/Detailed Cost Estimate (**Attachment B**) summarizes the work program and lists the anticipated hours of staff effort dedicated to individual tasks and responsibilities. The Work Program in the following **Sections 1 through 5**.

1 BLAST MONITORING, DATA COLLECTION, AND EVALUATION

Equipment and Monitoring Parameters

The City's seismograph is a Minimate Plus™. The seismograph provided by SCS for the mobile blast monitoring portion of the project will also be a Minimate Plus™. **Figure 1** shows the Instantel Minimate Plus™. Both seismographs will be supported by Blastware software, resulting in compatible data.

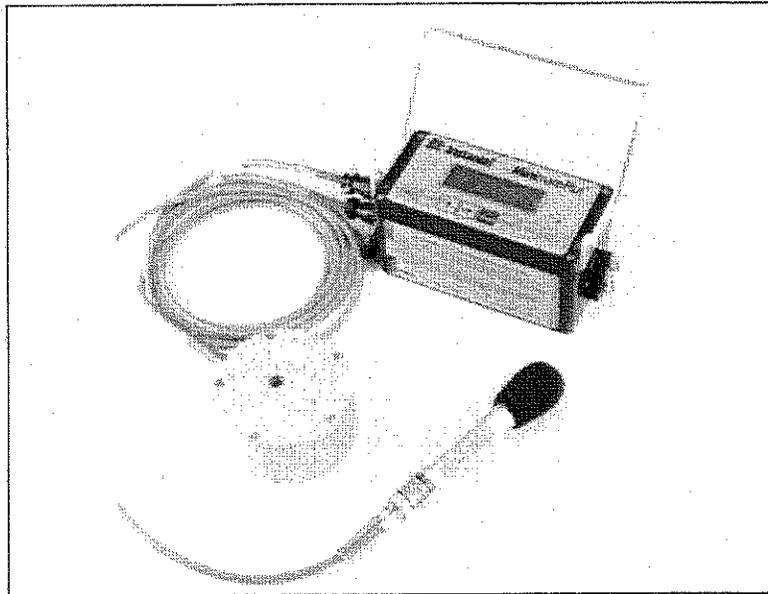


Figure 1. Minimate Plus™ Seismograph

The following work program for blast monitoring is based on the scope of work in the RFP, which references the standards in the PDD. The PDD contains standards for ground vibration and air blast resulting from blasting at the quarries. Based on the 2005 Final Consultant Quarry Monitoring Report, air blast monitoring has not been done by the City's consultant at the quarries. The Minimate Plus™ can be used with a microphone to monitor air blast should the City wish to conduct this monitoring. The following scope of work however does not include air blast monitoring.

Blasting Report Review

- SCS will review blasting reports prepared by the quarry operators for completeness, conformance with the criteria and standards of the PDD, and comparison to independent blast monitoring results.

Fixed-Location Blast Monitoring

- SCS will provide blasting analysis using one seismograph moving between multiple City-established blast monitoring sites or vaults.
- The seismograph and power source will either be provided by the City or be provided by SCS. (A cost for SCS providing the seismograph is included Work Program/Cost Estimate Detail.)
- SCS will maintain the seismograph and power source, perform data collection (download) at least every 3 weeks, and evaluate blast data.
- Following each period of data collection, the seismograph will be moved to a different vault site. Approximately 18 locations will be monitored in a 12-month period (3 weeks of monitoring will be conducted at each location.). The seismograph is expected to be in operation at least 95 percent of the time.
- SCS will evaluate the blasting data following completion of each monitoring event.

Mobile-Location Blast Monitoring

- SCS will conduct blasting analysis at up to 20 locations per year using a second portable seismograph, provided by SCS. In March through October monitoring will be conducted at an average of two locations per month; and in November through February monitoring will be done at one location per month.
- Monitoring will be conducted at each location for at least 1 week unless approved by the City.
- Monitoring data will be downloaded at least once per month.
- The seismograph will be located at a residential property with the permission of the resident and execution of a waiver, or be located within the right-of-way or other location, with approval of the City.
- Following is our proposed methodology for securing and placing the seismograph at each location:
 - The mobile seismograph can be placed in the basement of the selected buildings. The involved wavelengths are approximately 50 feet and greater so the effect of the concrete slab and gravel are not very significant.
 - The seismograph could also be placed on the concrete slab of the garage. This would be entirely satisfactory during the spring, summer, and fall. During the winter some electric heating of the electronics would probably be required. The required electric power would be very small.

- Interested parties could be convinced on the placement of seismographs within their buildings and the supply of small amounts of electric power based on the following point - It is the actual movement of the building foundation, not the movement of the ground, that is of primary interest to them.
- Security of the system will be provided through assistance of the involved property owner and the construction of a security box. The security box could be as small as approximately 6-inch x 12-inch x 4-inch and will be chained to some fixed feature on the involved property. The box will house the digital recording electronics and, for outside winter deployment, a heating element. The seismometer could be external to the box, for inside deployment, or internal for outside deployment.
- The City's seismograph will be operated alongside the quarries' seismographs to confirm that the City and quarries' seismographs are obtaining similar results. SCS will conduct a minimum of two side-by-side tests per quarry per year with at least 3 months between the two tests at each quarry. If results are not similar, SCS will perform additional tests if necessary to or resolve the discrepancies.
- Each placement in this section includes unit retrieval, unit set-up, battery adjustments or change out, and data collections. (A cost for seismograph placement in addition to the scope outlined above is provided in our Work Program/Cost Estimate Detail, **Attachment B.**)
- SCS will evaluate the blasting data following completion of each monitoring event.

Check Blasting Records

- SCS will review all blasting records on a monthly basis to check for compliance with the standards required in the PDD.

2 AIR QUALITY MONITORING, DATA COLLECTION, AND EVALUATION

Following are scope options for air monitoring:

PM₁₀ Monitoring - Option A

- SCS will provide a portable aerosol monitor that uses filter media designed to take PM₁₀-correlated measurements, and that is suitable for taking measurements as per EPA 24-hour exposure standards.
- SCS will use the monitor to monitor air quality for six 1-week periods during each calendar year.

- The aerosol monitors will be operated for 24 hours per day during each one-week (7-day) period, with filter changes in accordance with the EPA 24-hour daily exposure limit standard. Results obtained will be sufficient to fairly determine through extrapolation if there is a violation of the PM₁₀ standard.
- Specific periods of placement will be determined by the City in consultation with SCS.
- SCS will analyze the monitoring data and report the findings of each monitoring period to the City of Franklin.
- SCS will provide additional monitoring services, similar to those described above as requested by the City, in order to address unique or special circumstances or conditions.

Recommendation: SCS Tracer recommends the use of two air monitors, one placed in the general upwind direction of the quarry operations and one placed downwind of the quarry operations, based upon prevailing wind directions. This will allow for comparison of upwind and downwind conditions, differentiation of quarry emissions and background, and evaluation of air quality with changes in wind directions.

Sampling Equipment

SCS recommends utilizing the BGI Incorporated PQ-167 Portable PM₁₀ samplers. These samplers have several advantages compared to traditional high-volume samplers:

- The PQ-167 is lightweight and portable relative to standard high-volume samplers.
- It is able to run on battery power negating the need for standard electrical power.
- It has an EPA-approved equivalency method designation for PM₁₀.
- It is easily convertible between either PM₁₀ or PM_{2.5} sampling configurations.

Installation of the samplers will be performed according to the PQ-167's operation manual. SCS personnel are highly experienced in the installation and operation of these samplers. A picture of the sampler is provided on **Figure 2**.



Figure 2. PQ-167 Sampler

Sampling Procedures

During the each of the six 1-week sampling periods SCS's field technicians will:

- Collect exposed PQ-167 sample filters,
- Set up PQ-167 samplers for the following sampling day,
- Complete sampling log form, and
- Replace sampler batteries with charged spares and/or verify adequate battery charge.

All samples will be handled in accordance with the QA/QC provisions of the equipment manual and/or monitoring plan and strict chain-of-custody practices from initial deployment through final gravimetric or chemical analysis. (Chemical analysis is sometimes done on the particles on the filter to determine the concentrations of silica or metals.) These handling procedures include operational documentation (field logs), proper labeling of samples and proper execution of chain-of-custody documents.

Prior to, and following, each monitoring period, SCS Tracer will perform sampler audits using audit equipment not associated with the daily operation of the site. During this audit all measured parameters from each of the samplers will be verified and calibrated. Flow, temperature, and pressure will be verified with a BGI Delta-Cal. This instrument will be NIST certified.

Sample Analysis

The PQ-167 sampler utilizes 47 mm Teflon® sampling media for PM₁₀ monitoring. The filters are brought to constant humidity and weighed before sampling. The process is repeated on samples returned from the field. The sample analysis will be done by SCS Tracer. The measured difference in the filter mass is divided by the total volume of air sampled. The result is particulate loading in units of mass per cubic meter ($\mu\text{g}/\text{m}^3$). The Environmental Protection Agency's (EPA) 24-hour standard for PM₁₀ is 150 $\mu\text{g}/\text{m}^3$.

Data Reporting

Following each monitoring period a report will be generated within 3 weeks of the day the final samples are retrieved. Specifically, the report will include the following:

- A summary of the sampling program with sampling locations and duration.
- A table presenting data from sampling runs to include total mass, flow rate, total volume and relative PM₁₀ concentrations.
- A comparison of upwind vs. downwind concentrations (if two air monitors are used).
- A summary of the results along with comparisons to standards.
- An interpretation of the results in regards to the PM₁₀ impact from the quarries on the community during the monitoring period.

Sampler Rental

If the City prefers to rent rather than purchase the PM₁₀ sampler(s), SCS could rent the sampler(s) to the City at a rate of \$2,000 per sampler, for the six sampling periods in the year. (This includes shipping costs for calibration between sampling events.) Renting the samplers would have the benefit of reducing the City's initial capital investment in the sampling program. It would also shield the City from any maintenance or repair costs in the event of a breakdown of a sampler.

SCS will provide staff and equipment on as needed bases in order to address "unique or special circumstances or conditions." This includes but is not limited to:

- Provision of air monitoring equipment,
- Calibration of air monitoring equipment,
- Development of air monitoring plans and/or protocols,
- Provision of air monitoring data and reports, and
- Modification of PM₁₀ samplers to measure other particle fractions (i.e., PM₄ and PM_{2.5}).

PM₁₀ Monitoring - Option B

In this scenario SCS will provide all of the services listed in Option A. However, the City will provide all necessary monitoring equipment. SCS will pick up at and return to City Hall the aerosol monitor for each non-consecutive period of placement.

Discussion and Recommendations

PM₁₀ Standard vs. Assessing Peak Levels

Our proposal includes the work scope options as outlined in the RFP which focus on PM₁₀ monitoring. The additional information provided by the City on June 6, 2012, states that it is "intended that air quality monitoring primarily focus upon peak levels, and not necessarily upon longer term/ambient levels." However, in order to address the compliance issues in the PDD, PM₁₀ monitoring is necessary. The federal standard for PM₁₀ is based upon a 24-hour time averaged concentration. In order for the data attained by this program to be comparable to the federal standard 24-hour time averaged samples will need to be taken. It is not possible to assess peak concentrations from a 24-hour sample. Real time aerosol monitors will be needed in order to assess peak concentrations. This type of work can be performed according to Section 2.a.ii (unique or special circumstances or conditions) of the RFP. SCS recommends that the City's concern for peak level emissions be addressed by design of a specific plan which takes into account constituents of concern (PM₁₀, silica or other chemicals), meteorological data, specific quarry operations, the quarry's effect on daily wind patterns, etc., and budgetary constraints.

Upwind and Downwind PM₁₀ Sampling

In consideration of the City's best interest and current industry best practices, SCS recommends the use of two air monitors for the PM₁₀ monitoring, one placed in the general upwind direction of the quarry operations and one placed downwind of the quarry operations, based upon prevailing wind directions. This will allow for comparison of upwind and downwind conditions, differentiation of quarry emissions and background, and evaluation of air quality with changes in wind directions.

The RFP does not state whether or not the quarry has on-site wind speed and wind direction sensors with data logging capabilities. Wind data will be essential for assessing the predominant wind direction at the quarry as well as times of peak winds. This information will allow air monitoring personnel to better locate upwind and downwind samplers. Also, when assessing downwind impacts from the quarry operations, site specific wind measurements will be needed.

3 QUARRY OPERATIONS MONITORING AND MONITORING BY DIRECT OBSERVATION

Site Visits

- In March through October, SCS will perform unannounced visits to the quarries and the surrounding areas on at least three quarry operating days per month.
- In November through February, SCS will perform unannounced visits to the quarries and the surrounding areas one quarry operating day per month.
- On each visit SCS will observe and visually monitor all aspects of the extraction operation, including ground vibration, air blast, noise, trucking operations, and other operations that may affect the City of Franklin, particularly in relation to dust distribution.
- SCS will vary the days of the week and times of day of each visit. The visits will be in conjunction with the Direct Air Quality Observation described below.
- SCS will report the findings of each visit to the City of Franklin.

Direct Air Quality Observation

As part of the site visits described above, SCS will observe, measure, and visually monitor opacity, air quality, dust control and presence, and other conditions that may affect the City of Franklin. Each visit will include at least one hour of direct air quality observation in addition to the time dedicated to the observing quarry operations during the unannounced site visits described above.

Quarry Operations Review

- SCS will review quarry-provided or available records of all dust control measures and procedures, and templates for monitoring air quality, reporting on air quality, addressing the impacts on air quality, and reacting to potential impacts on air quality.
- SCS will observe operations and review documentation in relation to the control measures and procedures to evaluate compliance with their stated control measures and procedures, including trucking operations. This review will be conducted on a monthly basis.

4 ADDITIONAL PDD COMPLIANCE

SCS will review and evaluate quarry operations with respect to compliance with Local, State, and Federal Statutes, rules, regulations, orders, and laws, that are applicable to the operator's use of their property for mining, blasting, dust control, etc., and that are applicable to the

performance standards in the PDD. A copy of the sections of the PDD related to quarry monitoring are included in **Attachment C**.

5 REPORTING REQUIREMENTS AND COORDINATION WITH CITY STAFF

Bi-Monthly Reports

SCS will provide bi-monthly reports to the Planning Manager by the 15th of the month (March, May, July, September, November, and January) following the end of the bi-monthly period. The reports will include the following:

- A summary of SCS's review of all blasting reports in total and per quarry;
- A summary of independent monitoring results in total and per quarry;
- A discussion of complaints and responses relative to monitoring results in total and per quarry;
- Recommendations for addressing adverse impacts, non-compliant results, and adverse trends; and
- Comments or recommendations on the location or method of placement of monitors used in the program.

Public Meeting Participation

As requested by the City, SCS will present the monitoring report and recommendations at a public meeting, which will generally occur in the evening, and which will not exceed eight per year, without extra compensation.

Annual Report

SCS will provide a summary report compiling the prior-year's bi-monthly reports to the Planning Manager by the 30th of January each year. This report will include if appropriate, proposed amendments to the PDD Ordinances to require quarry operators to use new methods, processes, procedures, facilities, practices, or equipment in quarry operations that will diminish adverse impacts on the City, and provide an analysis as to the extent to which the proposed changes are cost effective in reducing adverse impacts.

Coordination with City Staff

- SCS will work with City Staff in regards to addressing complaints and adjust or modify monitoring schedule to respond to complaints in consultation with the City staff. (The names of complainants will be treated as confidential information and not a matter of public record.)

- SCS will report to the Planning Manager any blast or condition that exceeds the allowances of the PDD prior to noon of the next business day.

SCS QUALIFICATIONS

Expertise and Experience

SCS is a full-service civil and environmental engineering company with extensive experience providing services on multifaceted projects. Our staff includes geotechnical engineers with academic training in geophysics with project experience in monitoring ground motion on construction projects. SCS staff from our Milwaukee and Madison offices, who will perform the field aspects of the blast and air monitoring have a wide variety of field experience including monitoring airborne particulate matter and ground motion with seismographs. The quarry site visits, direct air quality observations, quarry records reviews, and reporting will be performed by staff that are familiar surface mining operations through their roles as geologists on several projects, and that have completed the new miner training required by the Mine Safety and Health Organization (MSHA) under 30 CFR Part 46 for surface mines. SCS BT Squared is familiar with quarry operation through our work for Wisconsin quarry operators. This work includes quarry siting investigations, environmental compliance, and reclamation planning.

Dr. Robert W. Taylor, a retired professor of geophysics from the University of Wisconsin, Milwaukee, will provide expertise in seismology for the blast monitoring aspect of the project. From 2002 to 2005, Professor Taylor served as consultant to Ruckert and Mielke on the monitoring of ground vibrations generated by quarry operations in the City of Franklin. Professor Taylor will serve in a similar capacity on our project team. He will assist SCS personnel with activation of the seismographs, analysis of seismographs, preparation of ground vibration reports, and supervise and analyze the seismograph comparison tests, among other activities.

SCS Tracer Environmental, San Marcos, California, will take the lead with providing technical management, logistical planning, data review, report preparation, and QA/QC oversight for the air monitoring aspect of the project. SCS Tracer has in-depth experience with monitoring system design, source emission tests, and continuous process monitors.

SCS is currently providing air monitoring services to Granite Construction Company (Granite). Granite constructing a quarry aggregate plant in northern San Diego County. Community concerns regarding potential particulate and chemical emissions from the quarry resulted in Granite seeking the design and implementation of an air monitoring plan that meets United States Environmental Protection Agency (USEPA) and California Air Resources Board standards. SCS Tracer worked with Granite and the community towards the development of a Particulate Matter monitoring program. The monitoring provides emissions information in a manner that fully addresses the community concerns while fairly characterizing the emissions from the quarry. Also, Granite has been able to determine operational practices that lead to the greatest contributions of particulate matter and has been able to implement control technologies and modify operational procedures to reduce or eliminate particulate emissions.

SCS Tracer maintains a staff of professionals with thorough knowledge of state and federal regulations regarding air monitoring as well as the latest techniques and methods utilized, and can assist in the development of facility specific monitors as well as regional scale networks. SCS Tracer's Statement of Qualifications is included as **Attachment D**.

Many of our projects, in particular brownfield redevelopment projects for municipalities require communicating technical issues to the general public in oral presentations and in clear concise reports. We aim to explain complex issues in easy to understand language, and tailor our presentations to our audience's interests and concerns.

References

References and a brief description of each associated project are included in **Attachment E**.

Previous Projects

SCS has not been involved with any litigation in connection with any similar projects and has not had a contract for a related scope of services terminated early or prior to the contract's scheduled end-of-term.

SCS has not performed any work for Payne & Dolan Inc.

SCS provides landfill gas monitoring services to Vulcan Materials Company, Los Angeles, California (Mike Murphy, SCS Project Manager [562-426-9544]) and Piedmont, South Carolina (Tracy Barnhart, SCS Project Manager [843-746-8525]).

SCS has not performed any work for a third party monitoring any quarry operations of Vulcan Materials Company or Payne & Dolan Inc.

Staff Qualifications

The following is a description of the professional background and experience of the key persons who will make up the project team, along with a description of their project role. Complete resumes of key personnel are included in **Attachment F**. For this project we have assembled a team that has extensive experience in air quality and ground vibration monitoring, environmental observation, reporting and public interface. Our team includes the following:

Betty Socha, PhD, PG, Project Manager – Betty will ensure that the project is completed on schedule and within the budget. Betty will also provide technical management, logistical planning, data and report review, and QA/QC oversight for the project. Betty has 27 years of experience in the environmental field and has been a project manager at the Madison office of SCS since 1993. She has managed multifaceted projects similar to this project and is committed to staying with the project through completion. Betty is a geologist with expertise and extensive experience in soil and groundwater investigations and remediation, environmental site assessments, field investigation methods, geologic mapping, and interpretation of sedimentology and stratigraphy of glacial and non-glacial deposits for environmental and engineering projects.

She has conducted geologic investigations at several quarries in Wisconsin and Illinois and is familiar with quarry operations and surface mining. She has completed the new miner training required by the MSHA under 30 CFR Part 46 for surface mines. Betty has worked with several government clients and has presented project results to County Boards and the general public.

Robert W. Taylor, PhD, Professor Emeritus, University of Wisconsin, Milwaukee – Professor Taylor will assist SCS personnel with field placement and activation of the seismographs, analysis of seismographs, and preparation of bi-monthly ground vibration reports. He will also assist in review of the blasting reports prepared by each quarry operator and supervise and analyze the seismograph comparison tests. Professor Taylor served in a similar position as this as consultant to Ruckert and Mielke on the monitoring of ground vibrations generated by quarry operations in the City of Franklin from 2002 to 2005. If requested, Professor Taylor will also present the ground vibration results to City of Franklin civil or government groups.

Professor Taylor's additional relevant technical activities include serving as a consultant to Fromm Applied Technology for a project related to the measurement and analysis of ground vibrations radiated by railroad trains. Professor Taylor has also conducting studies of ground vibrations from forging hammers in several states, and he has conducted a study of ground vibrations radiated by VIBROSEIS™ for CONOCO, Inc. (The "VIBROSEIS" system uses hydraulically operated vibrators to send sound signals (instead of shock waves) down through the earth.)

Paul W. Schafer, Project Manager – Paul Schafer is a Project Manager at SCS Tracer Environmental, in San Marcos, California. Paul will take the lead with providing technical management, logistical planning, data review and report preparation, calibrations of air monitoring equipment, and QA/QC oversight for the air monitoring aspect of the project. Paul has in-depth experience with of monitoring system design, source emission tests, and continuous process monitors. Cost control management and defensible technical performance are primary goals integral to all long term monitoring programs managed by Paul. SCS Tracer staff will also provide performance assessments of monitoring equipment, as well as troubleshooting and preventive maintenance, and will perform the PM₁₀ analysis on the air monitoring filters.

Mark Huber, PE, Vice President, Project Director – Mark will serve as the project director responsible for the quality and accuracy of SCS deliverables. Mark will work closely with Betty to ensure the overall direction of the project meets the City's needs. He has 22 years of consulting experience in civil and environmental engineering. Mark has worked on a variety of quarry and construction-related projects including quarry reclamation planning, seismic monitoring, and environmental compliance. His experience working on a variety of complex projects allows him to quickly identify key issues and develop solutions. Mark is an excellent communicator, adept at explaining complex issues in easy to understand language, and will be available to assist with presentation of project results to public or government groups.

Angela Wilcox-Hull, Environmental Scientist – Angie has 6 years of experience in the environmental field. She is experienced in organizing and performing environmental site assessments; spill prevention, control, and countermeasure planning; soil and groundwater contamination investigations; and remediation activities. Angie has also performed agricultural

conservation plans; native prairie restoration inspections; and erosion control inspections and plan review for permitting for Dane County. She has worked with a variety of government agencies in Wisconsin, Illinois, New Jersey, Connecticut, and Pennsylvania, and clients in the petroleum, agricultural, real estate, solid waste, and energy industries. Angie will be the main person conducting the quarry site visits, performing direct air quality observations, reviewing quarry records, and preparing reports. She is familiar with surface mining operations through her role as geologist on several projects and has completed the new miner training required by the MSHA under 30 CFR Part 46 for surface mines.

Christopher J. Jimieson, PE, Senior Geological Engineer – Chris will coordinate activities of field staff and be responsible for data quality and deliverance to SCS's data analysis team. He will also assist Angie in report preparation. Chris has over 13 years of experience utilizing his background in geological engineering and geology to take on numerous hydrogeologic and civil engineering projects. He has substantial experience with civil engineering aspects residential and commercial developments, as well as providing construction oversight. His expertise also extends to storm water permitting, storm water quality management, erosion control, surveying, dynamic compaction and soil logging/compaction testing. Additionally, he has seismic monitoring experience in a residential area in Cudahy using a seismograph from his construction oversight of dynamic compaction. Chris has worked with developer, agricultural, commercial, municipal, and solid waste clients.

Gary Sterkel, Environmental Specialist – Gary will take the lead with setting up seismographs and air monitors, downloading data, and equipment maintenance and calibration. He has 33 years of experience in the environmental field. Gary has worked extensively in the management and coordination of multiple sites requiring reporting and analysis. This involves permit requirement coordination, project budgeting, sampling, data review, task scheduling, communication with vendors and subcontractors, and preparing submittals to city, state, and federal agencies. Gary is very familiar with a wide variety of field instruments and data loggers.

Paul Grover, Senior Field Technician – Paul has 21 years of experience coordinating and performing a wide variety of fieldwork including air monitoring for particulates. His expertise is in operation and maintenance (O&M) of environmental remediation systems and extends to troubleshooting, equipment maintenance, and equipment calibration. Mr. Grover also has extensive experience in gas monitoring; groundwater monitoring; drilling and well construction oversight; surveying; hydraulic conductivity testing; and construction oversight and documentation. Paul is very familiar with a wide variety of field instruments and data loggers. On this project, Paul will assist Gary with setting up seismographs and air monitors, downloading data, and equipment maintenance and calibration.

General Service Agreement

SCS accepts the terms and conditions of the Anticipated General Professional Services Agreement Terms as stated in the RFP (**Attachment A**).

SCS's Federal Employer Identification Number is 54-0913440.

SCS takes no exception(s) to the RFP. This proposal is executed and submitted by an individual duly authorized to execute legal documents on behalf of SCS, and whose original signature is on the submitted proposal.

6 PROJECT COSTS AND FEES

Project Costs are summarized on the form provided by the City (**Attachment G**).

7 ESTIMATED STAFF EFFORT

Tasks outlined in the Scope of Work and work program, are listed on the Work Program/Detailed Cost Estimate (**Attachment B**) which identifies the team member and estimated number of hours anticipated to complete that task.

A Fee Schedule showing hourly rates for all personnel and expense charges that may be used to provide supplemental and on-call services described in the Scope of Work and for any additional services is attached as **Attachment H**.

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ATTACHMENT A

**Request for Proposal for Quarry Monitoring Services for the
City of Franklin, WI**

Request for Proposals
for
Quarry Monitoring Services
for the
City of Franklin, WI

Issued: May 17, 2012

RFP Responses Due: 11:00 a.m. CST, June 8, 2012
at the
Office of the City Clerk
City of Franklin
9229 West Loomis Road
Franklin, WI 53132

Please be advised:

This project does not constitute a Public Works project as defined by Wisconsin Statutes; therefore, the City is under no obligation to engage in a sealed bid process or to select the lowest qualified bidder. Nonetheless, the process described herein is established to help the City to identify a contractor who can, as determined solely by the City, best provide the City with quarry monitoring services under terms and conditions acceptable to the City but mutually negotiated with the successful consultant.

The final decision on the selected consultant shall remain with the City of Franklin Common Council. The City of Franklin reserves the right to waive any or all formalities, to reject any or all proposals at the sole discretion of and for the benefit of the City of Franklin, or to negotiate special or specific terms with a consultant, that may deviate from those referenced herein, for the sole benefit of the City of Franklin.

Additionally, the City reserves the right to alter or change any or all aspects of the submittal requirements and the submittal and selection process as the City shall solely determine is in its best interest. In such event, the City shall strive to notify all participating consultants of such alterations or changes but is under no obligation to do so.

A copy of this RFP may be obtained by picking it up directly from:

Office of the City Clerk
City of Franklin
9229 West Loomis Road
Franklin, WI 53132

-- Or --

a potential respondent may request via email an electronic version of the RFP by emailing

lhuenig@franklinwi.gov

and using the "Subject" line "**Request For Quarry Monitoring RFP**"

The contact information provided when picking up the RFP will be used in the event of any subsequent distribution of supplemental RFP documents, including but not limited to answers to questions as issued by the City. Nonetheless, it is the responsibility of each party receiving an RFP to ensure that they have requested and/or received any supplemental documentation.

REQUEST FOR PROPOSAL

CITY OF FRANKLIN, WISCONSIN

QUARRY MONITORING SERVICES

Introduction

The purpose of this document is to explain the requirements and procedures for submission of formal proposals from consultants interested in performing work and providing expertise and experienced assistance to the City of Franklin in monitoring two (2) neighboring and fully operating limestone quarries. Vulcan Materials Company and Payne & Dolan, Inc. (d/b/a: Franklin Aggregates) extract limestone from the same rock formation. In 1997, the City of Franklin adopted Planned Development District zoning for the quarries allowing for the continued extraction in certain areas and under certain criteria and exacting standards. The selected consultant will assist the City in monitoring the criteria and standards as stated in the Planned Development District Ordinances and will also suggest upgrades to the criteria and standards to meet "State of the Art" techniques.

Background

The City of Franklin, Wisconsin, is located in the southwest corner of Milwaukee County, Wisconsin. The 2012 population, as estimated by the State of Wisconsin, is 35,504. Extraction of limestone at the current location of the quarries commenced in the 1940's, with a change in ownership and property ownership lines between the two quarries over the years. The extraction commenced prior to the City becoming an incorporated Wisconsin municipality in 1956.

During the early 1990's, quarry operators and citizens of Franklin embarked upon a communication process leading to the acceptance of voluntary blasting guidelines by the quarry operators. When the quarries approached the City for approval to expand the extraction area boundaries beyond the area allowed by zoning, a long, extensive, and exhaustive process took place eventually leading to the adoption of the Planned Development Districts, and the listing of criteria as standards.

For several years, even before the adoption of the Planned Development District, the City of Franklin Fire Department had been the agency responsible for collecting blasting data and receiving and following through on complaints of quarry operations from citizens. Periodically, a seismograph in the possession of the Fire Department was utilized to verify blasting information. The collected data of blast results and tabulation of complaints was reported on a monthly basis to the City of Franklin Common Council. The Fire Department did not interpret the information for improvements to blasting techniques.

Additional monitoring has also occurred in the past. For example, the Wisconsin Department of Natural Resources previously operated two air quality monitoring stations near the quarries for the expressed purpose of monitoring the air quality impacts from the quarries. The Wisconsin DNR, however, has discontinued that effort. Additionally, the most extensive monitoring occurred when the City contracted with a consultant for monitoring of the quarries from 2002 to 2005, while each quarry operator has continued to self-report blast results.

Issuing Agencies

This Request for Proposal (RFP) is being issued by the City of Franklin, State of Wisconsin. The consulting firm selected to do the work will contract with the City and be responsible to work with and assist the City of Franklin Common Council to monitor the quarries, as well as such staff and boards or commissions as the Common Council shall so determine is appropriate. The selected consultant would be expected to also coordinate with the Quarry Monitoring Committee and the Plan Commission on issues which pertain to their areas of responsibility, as well as, coordinating the consultant's work with City staff responsible to the Common Council and advisory bodies.

Anticipated Term of Engagement

An initial one-year term with the ability to negotiate at least two additional one-year extensions is anticipated for a professional services agreement. This will enable the City to consider altering the scope of work required for future years after evaluating the results during the first year.

Scope of Work

In general, the work to be carried out shall consist of periodic blasting and air quality monitoring, analyzing monitoring results, preparation of reports and studies, and communicating the reports and studies with City Staff, the Common Council, and boards and/or commissions, as needed. Representation of studies, reports, and findings at public meetings will be the responsibility of the consultant from time to time.

The Scope of Work will consist of the following items:

1. Blast Monitoring, Data Collection, and Evaluation.

- a) **Review Blasting Reports:** Review all blasting reports prepared by each quarry operator for completeness of proper information, conformance with the criteria and standards of the PDD, and comparison to independent blast monitoring results.
- b) **Fixed-Location Blast Monitoring:** Provide independent blasting analysis through the use of a single, separate seismograph moving between multiple City-established blast monitoring sites or vaults. As to be determined in the final Professional Services Agreement, an appropriate seismograph and power source will either be provided by the City, with no cost incorporated into the proposal, or provided by the contractor, with a cost incorporated into the proposal. (Note: A contractor-provided seismograph must be approved by the City, must be digital, not analog, and must have sufficient internal memory.) The contractor shall manage and maintain the seismograph and battery source (if one), perform data collection (download) at least every three weeks, and evaluate blast data. Immediately following each episode of data collection and in coordination with City staff, the seismograph should generally be moved to a different vault site. Except if the seismograph breaks or malfunctions at no fault of the contractor, the seismograph is expected to be in operation 95% of the time.
- c) **Mobile-Location Blast Monitoring:**
 - i. Provide independent blasting analysis through the use of a separate, consultant-provided portable seismograph to conduct field blast measurements at up to twenty (20) locations or placements per year [expected to average two (2) locations per month during the months of March through October and one (1) location per month during the months of November through February]. Each such placement shall monitor at least one week of activity unless otherwise approved by the City. Collected blast-monitoring data will be downloaded at least once per month. The seismograph shall be positioned at a nearby residential property, upon the resident's permission and execution of waiver, or within the right-of-way or other location, upon approval of the City. The consultant is to propose and describe a methodology for securing and placing the seismograph at such residential locations.
 - ii. Additionally, to confirm that the City and quarries' seismographs are obtaining similar results, a minimum of two side-by-side tests are required per quarry per year, with at least three months between the two tests at each quarry. If these tests

do not yield similar results, the consultant may need to perform additional tests to reconcile or resolve any deviation between devices.

- iii. Each placement required by this "Mobile-Location Blast Monitoring" section includes, but is not limited to, unit retrieval, unit set-up, battery adjustments or change out, and data collections. Furthermore, the contractor will provide a cost per placement (as described above) for any additional calls for seismograph services or placement, beyond those numbers and uses set forth above. City staff shall be responsible for identifying the residential properties, with recommendation from the consultant and taking into consideration complaints, comments, and requests received from area residents, and for obtaining the executed waivers. The consultant should anticipate that if a quarry is found to be failing to meet the standards of the PDD significantly more blast monitoring trips or occurrences may be required.
- d) Check Blasting Records: All blasting records will be reviewed on a monthly basis to check for compliance with the standards required in the PDD.

2. Air Quality Monitoring, Data Collection, and Evaluation. PM10 Monitoring: The consultant shall propose a work program and cost for each of the following options ("a" and "b"), one of which will be incorporated into the Professional Services Agreement:

- a) The consultant shall provide and/or perform the following:
 - i. Provide, for 6 one-week periods during each calendar year, a portable aerosol monitor which is a high volume or medium volume air sampler using filter media designed to take PM10-correlated measurements, suitable for taking measurements as per EPA 24-hour exposure standards. Specific periods of placement shall be determined by the City in consultation with the consultant. The aerosol monitors shall operate for 24 hours per day during each one-week period, with filter changes in accordance with the EPA 24-hour daily exposure limit standard. Results obtained must be sufficient to fairly determine through extrapolation if there is a violation of the PM10 standard. The findings of each visit will be documented in a form and manner as approved by the City of Franklin.
 - ii. On-call response in addition to "2. a) i." above, but providing similar services thereto, in order to address unique or special circumstances or conditions.
- b) The City shall provide the portable aerosol monitor identified above, but the consultant shall provide the staff to perform the work as generally specified in "2. a) i." and "2. a) ii." on pre-scheduled and/or on-call basis. For example, the City may lease/rent a monitor during the months of June and September, with more intensive air monitoring occurring during those two months. The aerosol monitor would be picked up at and returned to City Hall for each non-consecutive period of placement.

3. Quarry Operations Monitoring and Monitoring by Direct Observation.

- a) **Site Visits:** The consultant shall be responsible for unannounced visits to the sites of the quarries and the surrounding areas at least three (3) quarry operating days per month during the months of March through October and one (1) quarry operating day per month during the months of November through February, to observe and visually monitor all aspects of the extraction operation, including, but not limited to, ground vibration, air blast, noise, trucking operations, and other operations that may affect the citizens of Franklin, particularly in relation to dust distribution. The consultant shall vary the days of the week and times of day of each visit. The on-site visits will be in conjunction with the Direct Air Quality Observation required below. The findings of each visit will be documented in a form and manner as approved by the City of Franklin. (Visits onto property of the quarries must be announced to the operators upon arrival.) Collection of photographic evidence is expected where appropriate or effective.
- b) **Direct Air Quality Observation:** As part of the site visits required above, the consultant shall observe, measure, and visually monitor opacity, air quality, dust control and presence, and other conditions that may affect the citizens of Franklin. On-site direct air quality observations for each visit shall not be less than one hour in length (as such, additional time is needed for the other aspects of the Quarry Operations Monitoring site visits).
- c) **Quarry Operations Review:** Review quarry-provided or available records of all dust control measures and procedures and templates for monitoring air quality, reporting on air quality, addressing the impacts on air quality, and reacting to potential impacts on air quality. The consultant will observe operations and review documentation in relation to the control measures and procedures to evaluate compliance with their stated control measures and procedures, including trucking operations. For example, if a quarry has a stated procedure related to operations during heavy winds or dry period that is intended to reduce air borne dust, the consultant could, in part, review documentation and procedures related to wind speed and road way dust monitoring and review the quarry's compliance with such stated procedures.

4. Additional PDD Compliance. The consultant shall monitor that the quarry operators are in compliance with all Local, State, and Federal Statutes, rules, regulations, orders, and laws, as amended from time to time, to the extent they are applicable to the operator's use of their property for mining, blasting, dust control, etc., and to the extent they are applicable to the performance standards set forth in the PDD. The purpose of this section is to ensure the review and evaluation of the operations of quarry activities is inclusive of all requirements of the PDD, including any not specifically or clearly noted in items 1 and 2 above in this Scope of Work.

5. Reporting Requirements and Coordination with City Staff.

- a) The consultant shall provide bi-monthly reports which shall be submitted to the Planning Manager no later than the 15th of the month (March, May, July, September, November, and January) following the end of the bi-monthly period. The reports shall include a summary of the consultant's review of all blasting reports in total and per

- quarry; independent monitoring results in total and per quarry; discussion on complaint data and responses relative to monitoring results in total and per quarry; recommendations for addressing adverse impacts, non-compliant results, and adverse trends that are evident in the report data; and comments or recommendations as to the location or method of placement of all such monitors used as part of these services. From time to time as required by the City, the consultant may be responsible to present the report and recommendations at a public meeting, which will generally occur outside of normal business hours in the evenings and which will not exceed 8 such meeting occurrences in any calendar year, without providing extra compensation.
- b) The consultant shall provide a summary report compiling the prior-year's bi-monthly reports which shall be submitted to the Planning Manager no later than the 30th of January each year. This report shall provide or address the recommendations or amendments as set forth in item c) below.
 - c) The consultant shall be responsible for annually, or at other such times as circumstances warrant, proposing any amendments to the PDD Ordinances to require use by the operator of new methods, processes, procedures, facilities, practices, or equipment in quarry operations that will materially diminish adverse impacts on the community or nearby residents. The proposal shall include an analysis or summary as to the extent to which the use of such methods, processes, procedures, facilities, practices, or equipment is proven and demonstrated to be effective in operator's industry in reducing adverse impacts and to the extent to which they are cost effective in reducing adverse impacts. Note that the consultant may conclude and report that no amendments are recommended and that each quarry is being operated with the industry's current best methods, processes, procedures, facilities, practices, or equipment.
 - d) The consultant shall be provided a copy of all complaints of quarry operations as received by the City and shall work with City Staff in regards to addressing said complaints and shall adjust or modify any such monitoring schedule to respond to complaints as determined by the consultant, in consultation with the City staff. The consultant should be aware that the City considers the name of each complainant to be confidential and not a matter of public record, and the consultant shall act accordingly.
 - e) Upon becoming aware of such an event, the consultant shall immediately (prior to noon of the next business day) report to the Planning Manager any blast or condition that exceeds the allowances of the PDD.
 - f) Unlimited interaction with City Staff during regular business hours is expected and incorporated herein.

Access to PDD Documents:

Each quarry has an adopted PDD that is part of the City's Unified Development Ordinance. The PDD defines the parameters of operation for each quarry and those parameters provide the standards incorporated into this RFP. It is strongly recommended that each proposing consultant review the PDD documents prior to submitting their proposal to this RFP.

An electronic copy of the PDD Documents is available at <http://file.franklinwi.gov/pdd23.pdf> and <http://file.franklinwi.gov/pdd24.pdf> through June 8, 2012.

Proposal Requirements:

The City of Franklin reserves the right to waive any or all formalities, to reject any or all proposals at the sole discretion of and for the benefit of the City of Franklin, or to negotiate special or specific terms with a consultant, that may deviate from those referenced herein, for the sole benefit of the City of Franklin.

Additionally, the City reserves the right to alter or change any or all aspects of the submittal requirements and the submittal and selection process as the City shall solely determine is in its best interest. In such event, the City shall strive to notify all participating consultants of such alterations or changes but is under no obligation to do so.

By submitting a proposal, each proposing consultant acknowledges and agrees to the City's reservation of rights referenced herein.

1. Contents of Sealed Proposal: Proposal responses are to be straightforward, clear, concise, submitted in an 8-1/2 x 11 format, and shall at a minimum include the following:

- a) Cover Letter / Management Summary: An introduction of the firm, a statement of understanding of the project, a summary of the firm's approach to management of and approach to the Scope of Work, and other such introductory information deemed appropriate or relevant by the firm.
- b) Work Program: A work program describing the precise manner in which the Scope of Work is proposed to be undertaken. Additionally, the work program should describe any amount of modification to, deviation to, or expansion of the scope of work outlined in this RFP. The work program may propose alternative or additional services the consultant believes are in the best interest of the City or reflective of current industry best practices. The work program should identify and breakdown the anticipated hours of staff effort dedicated to individual tasks and responsibilities. The work program should be divided into at least the following sections:
 - Blast Monitoring, Data Collection, and Evaluation
 - Air Quality Monitoring, Data Collection, and Evaluation.
 - Quarry Operations Monitoring and Monitoring by Direct Observation
 - Additional PDD Compliance.
 - Reporting Requirements and Coordination with City Staff.
 - (Additional categories as determined by the proposing consultant – if needed)
- c) Firm Qualifications:
 - i. A clear and concise statement indicating the consultant's (and any sub-contractor proposed to be used by the consultant) knowledge, past performance, experience, and familiarity with the type of work set forth within this RFP, with quarry operations (surface mining) in general, and with any related or required field of expertise.

- ii. A clear and concise statement demonstrating expertise in communicating technical issues to the general public visually, verbally, and in writing.
 - iii. A list of at least three (3) references within the past ten (10) years for whom the consultant has provided similar services to those described in this RFP, including a brief description of the project. (Public sector references are encouraged.) (If the consultant does not have at least three (3) such references, provide a clear statement to that effect with the remaining references.) Include a contact name, address, and telephone number(s) for each reference.
 - iv. Litigation or Early Termination: A statement indicating if, within the last 10 years, your firm (or any sub-contractor) was involved with any litigation in connection with any similar project(s) or your firm had a contract for a related scope of services terminated early or prior to the contract's scheduled end-of-term. If yes, describe the circumstances of the suit or termination and provide related contact names and telephone numbers.
 - v. A statement indicating any work performed for and the nature of the work performed for Vulcan Materials Company and/or Payne & Dolan Inc. or their successors or assigns, along with when that work was performed within the last 10 years, the location of the project, and contact information for that contract or assignment.
 - vi. A statement indicating any work performed for and the nature of the work performed for a third party monitoring any quarry operations of Vulcan Materials Company and/or Payne & Dolan Inc., along with when that work was performed within the last 10 years, the location of the project, and contact information for the third party.
- d) Staff Qualifications: A statement and supporting documentation indicating the professional background and experience of the key persons who will be assigned to the project by the consultant (including the key persons of any sub-contractor proposed to be used by the consultant). Provide resumes of key personnel as an appendix to the proposal response. Note: It is the expectation of the City that key members, especially the Project Manager, shall have significant demonstrated experience with this type of project and should be committed to stay with the project.
- e) A statement indicating acceptance of the Anticipated General Professional Services Agreement Terms, as indicated herein, and detailing any anticipated general Professional Services Agreement term(s) to which the contractor requests or requires any meaningful modification, including exclusion thereof.
- f) Any additional comments or attachments necessary to address RFP addendum(s) distributed by the City (if any), where, unless otherwise specified by the addendum(s), such addendum(s) were not completely addressed within the above "Proposal Requirements" components.
- g) The applicant firm's Federal Employer Identification Number, a statement certifying that the proposing consultant takes no exception(s) to this RFP, and a statement stipulating that the proposal is executed and submitted by an individual or individuals

duly authorized to execute legal documents on behalf of the proposing consultant, including the original executing signatures on at least one copy of the submitted proposal. (If the proposing consultant does take any exception(s) to any portion of this RFP, the specific portion of the RFP to which exception(s) is taken shall be identified and explained.)

- h) Project Costs and Fees: Complete Appendix B "Project Costs" and prepare and submit a schedule of "Estimated Staff Effort".

The schedule of "Estimated Staff Effort" should identify the tasks required by and set forth in the Scope of Work and work program, and for each task identify the employee and estimated number of hours anticipated to complete that task. A format similar to Appendix B –Project Costs but identifying staff effort instead of dollars could be used. Understanding the anticipated staff effort expected by each proposing consultant is an important aspect of putting the proposed project costs in context and being able to evaluate each proposing consultant's understanding of the RFP and the scope of the project. Additionally, this information aids in comparing submitted proposals on an equal basis. The information will also be used within the process to retain a relationship to the competitive RFP responses and process in the event it becomes necessary to modify the scope of work based on available resources. A schedule of Estimated Staff Effort, however, can not be used to request additional payment for base services if the successful consultant underestimates the workload necessary for the identified services.

Additionally, a consultant who proposes alternate work programs or service recommendations should submit a statement or schedule including all project-related costs or fees. It should clearly indicate any variance from costs as structured in Appendix B. If alternate work program costs, other than the cumulative "not-to-exceed" costs, are presented on an "estimated" basis, clear information must be provided on the components of the estimate and on the formula or factors used in calculating the estimates. Please note that the inability of the proposing consultant to clearly identify all potential costs of the project could lead to elimination of the consultant's proposal from further consideration.

- i) Hourly rates for all principles and employees of the consultant and sub-contractors that may be used to provide supplemental and on-call services described in the Scope of Work and to provide services outside the primary scope of services in the event additional services or adjustments to the Scope of Work are separately negotiated during the term of the Professional Services Agreement.
- j) Notice of Confidential Information. It is the responsibility of the proposing consultant to clearly identify information in their proposal that the proposing consultant considers to be confidential in accordance with Wisconsin or Federal public records laws. To the extent that the City agrees with that designation, such information will be held in confidence whenever possible. If the City disagrees with that designation, the City will inform the proposing consultant in writing, and the proposing consultant will be given the opportunity to alter the designation or withdraw their proposal. All other

information will be considered public record, with the complete proposals available as public record following completion of the proposing consultant interviews to ensure identification of all identified confidential information and to maintain the integrity of the process.

- k) A statement indicating any aspect of this RFP to which the proposing consultant takes exception which is not already addressed in alternative work programs (section "b" above) or contract terms (section "e" above). Please note that exceptions may result in having the proposal deemed unacceptable or classified as not reasonably susceptible to being selected for award. If the proposing consultant takes no exception to any aspects of this RFP, they may submit a statement to that effect.

2. Directives for Submittal:

- a) Consultant shall submit eight (8) bound copies of the complete proposal response as set forth herein, which submission must be received at the Office of the City Clerk at the following address by 11:00 a.m. Central Standard time on June 8, 2012.

Office of the City Clerk
City of Franklin
9229 West Loomis Road
Franklin, WI 53132

- b) Envelopes or packages containing the proposal and any related materials shall be sealed and clearly marked on the outside in the following manner: "Proposal for Quarry Monitoring Services for the City of Franklin". Additionally, the envelopes or packages shall indicate the proposing consultant's name and return address.
- c) Envelopes or packages containing proposals and related materials which are received after the date and time state above shall be returned unopened. Telegraphic, e-mail, or facsimile (fax) proposals are not acceptable and will not be considered.

3. Costs Incurred in Responding to this RFP. The City of Franklin shall not be liable for any costs incurred by any proposing consultant, contractor, or sub-contractor responding to or participating in a response to this Request for Proposal, any costs associated with discussions required for clarification of items related to this proposal, or any costs associated with negotiating a Professional Services Agreement. All costs required for the preparation and submission of a proposal and for participating in negotiating a Professional Services Agreement shall be borne by each proposing consultant.

Consultant Selection Procedures:

The City of Franklin, Wisconsin, will be solely responsible for selection of a consultant to complete the desired work. The selection process is anticipated to generally be as set forth below; HOWEVER, THE CITY RESERVES THE RIGHT TO ALTER OR CHANGE ANY OR

ALL ASPECTS OF THE SELECTION PROCESS AS THE CITY SHALL SO DETERMINE IS IN ITS BEST INTEREST. The evaluation of the proposals shall be within the sole judgment and discretion of the City.

1. Pre-Submittal Questions: Any consultant anticipating submitting a response to this RFP may submit any questions concerning the RFP to the Planning Manager via email at jdietl@franklinwi.gov prior to 5:00 p.m. CST on June 1, 2012. The Planning Manager will provide an acknowledgment of receipt of the email. The Planning Manager will provide the questions and answers via email to all consultants who have requested a copy of the RFP.

2. Opening of Submissions: At 11:15 a.m. Central Standard time on June 8, 2012, in the Common Council Chambers of Franklin City Hall, the City Clerk shall open the sealed proposals and compile a list of the proposing consultants who have provided a submission for the RFP. (Note: As an RFP for professional services and given the nature of the potential cost structure involved, cost components of the proposals will not be announced at this time.)

3. Initial Screening: The Planning Manager, on behalf of the City, shall review each formal consultant proposal to determine if the submission meets the requirements of the RFP. The City, at its sole discretion, may determine to consider minor deviations from the submission requirements as inconsequential and allow such proposal to proceed for further consideration. If the Planning Manager determines that a submission includes a consequential error or omission, the Planning Manager shall consult with the City Attorney, who shall review the proposal and the Planning Manager's review and determine if the proposal meets the requirements of the RFP or if the proposal shall be excluded from further consideration. If a proposal is to be excluded from further consideration as a result of the initial screening, the Planning Manager shall promptly notify the consultant in writing of their exclusion and the reason therefore.

4. Screening: A staff workgroup consisting of the Planning Manager, a Planning Commission member, the City Engineer (also a Plan Commission member), the Director of Administration, the Fire Chief, and a Citizen Representative shall review each formal consultant proposal passing the Initial Screening. Under penalty of possible disqualification, no proposing consultant or potential proposing consultant shall contact or lobby staff workgroup members during the evaluation process, except for contacting the Planning Manager in regards to Pre-submittal Questions (item number 1 on preceding page) or other questions on the RFP process or timeline. The staff workgroup will select proposals for further review (interview) based on the proposing consultant's qualifications, related project experience, fees and costs, work plan, and proposed scope of service, including proposed alternatives (if deviating from that provided for herein). Based upon this review, two (2) or more consultants will be selected for follow-up interviews.

5. Proposing Consultant Interviews: The proposing consultants remaining after the initial screening and screening will be invited to attend an interview before the staff workgroup. The staff workgroup reserves the right to prepare and distribute a supplemental questionnaire prior to the interview. The purpose of the interview would be to allow each invited proposing consultant to make a presentation before the staff workgroup on elements of their proposal and work plan and to allow staff workgroup members the opportunity to ask questions of the proposing consultants. It is anticipated that each proposing consultant interview would be generally limited

to a period of one (1) hour. Representatives of the proposing consultant shall include a principle of the firm, the proposed project manager, and key personnel that will be working directly on the project.

6. Staff Workgroup Recommendation and Protests: Based upon a one-person-one-vote evaluation, the staff workgroup will prepare a recommendation to the Common Council. If the recommendation of the staff workgroup is not unanimous or the recommended consultant did not receive four (4) votes as the first choice, the Planning Manager shall prepare a summary for the Common Council summarizing, from his perspective, the distinctions between the two top vote getters. The staff workgroup recommendation will be based upon the proposing consultant's qualifications, related project experience, fees and costs, work plan, and proposed scope of service, including proposed alternatives (if deviating from that provided for herein), and any other such factor the staff workgroup determines relevant based upon the submissions and the subsequent interview process. After selecting their recommended consultant, the staff workgroup shall vote in a similar manner to determine their second choice. Each interviewed consultant will be notified in writing as to whether or not their firm has been recommended by the staff workgroup for selection by the Common Council. In the event any interviewed firm that was not recommended for selection wishes to protest the proposal process or appeal the recommendation, such firm shall submit a written protest to Jesse Wesolowski, City Attorney, at 11402 West Church Street, Franklin, Wisconsin, 53132 before 5:00 p.m. one week after the postmark on the written notice that the firm was not the recommended consultant. The proposing consultant's failure to comply with these procedures shall constitute a waiver of any right to further pursue a proposal protest. The City Attorney shall have the authority to interrupt, intervene, amend, alter, or forestall the remaining steps of the process as he so shall determine is appropriate and in the best interest of the City.

7. Professional Services Agreement Development: The selected consultant will enter into a professional services agreement with the City, so prior to submission of the staff workgroup recommendation to the Common Council, the Mayor may cause a proposed professional services agreement to be negotiated with the recommended consultant. It is anticipated that the professional services agreement will largely incorporate the Anticipated General Professional Services Agreement Terms appended hereto (Appendix A), as well as other such terms and conditions as deemed appropriate and mutually agreed to. For information purposes only, Appendix A includes a sample of anticipated general Professional Services Agreement terms to be incorporated into the professional services agreement.

An initial one-year term with the ability to negotiate at least two additional one-year extensions is anticipated. This will enable the City to consider altering the scope of work required for future years after evaluating the results during the first year.

PLEASE BE ADVISED that should the selected proposals for the full scope of work as set forth herein result in anticipated costs that exceed available resources, the City reserves the right and expects to negotiate a reduced Scope of Work and/or Work Plan based upon the fees, costs, and rates as submitted in the RFP response. As such, the City does not anticipate re-issuing a revised RFP even in the event of significant changes in the Scope of

Work, if, upon further review and in the sole discretion of the City, such changes become necessary.

Should a tentative agreement be reached on all aspects of a professional services agreement, the proposed agreement along with the staff workgroup recommendation shall be submitted to the Common Council for its consideration. Should a tentative agreement not be reached on a fair and reasonable scope of service, work plan, terms and conditions, and/or costs and fees, the Common Council shall be so informed, and the Mayor may cause a proposed professional services agreement to be negotiated with the second choice of the staff workgroup.

8. The recommendation to the Common Council will include the summary from the Planning Manager, the proposed Professional Services Agreement (the negotiated tentative agreement), if available, and a presentation from the recommended consultant regarding the proposed scope of work and their qualifications and related experience. **As part of reaching a tentative agreement on a Professional Services Agreement, the proposing consultant acknowledges the ultimate authority of the City of Franklin Common Council to approve the Agreement, to disapprove the Agreement, or to demand further modification to or conditions of approval of the Agreement.** (Upon placement on the Common Council agenda of the staff workgroup recommendation, the submissions of each proposing consultant will also be made available for public inspection.)

9. The final decision on the selected consultant shall remain with the City of Franklin Common Council. The City of Franklin reserves the right to waive any or all formalities, to reject any or all proposals at the sole discretion of and for the benefit of the City of Franklin, or to negotiate special or specific terms with a consultant for the benefit of the City of Franklin.

APPENDIX A

Anticipated General Professional Services Agreement Terms

The City of Franklin reserves the right to add to, delete from, or modify any of the following anticipated general Professional Services Agreement terms or to negotiate special or specific terms with a consultant for the benefit of the City of Franklin.

PROFESSIONAL SERVICES AGREEMENT

This PROFESSIONAL SERVICES AGREEMENT (hereinafter "AGREEMENT"), made and entered into this _____ day of _____, 2012, between the City of Franklin, 9229 West Loomis Road, Franklin, Wisconsin 53132 (hereinafter "the CITY") and _____ (hereinafter "the CONTRACTOR"), whose principal place of business is _____, Wisconsin.

WITNESSETH

WHEREAS, the CONTRACTOR is duly qualified and experienced as a quarry monitoring service contractor and has offered services for the purposes specified in this AGREEMENT; and

WHEREAS, in the judgment of the CITY, it is necessary and advisable to employ the CONTRACTOR in connection with providing quarry monitoring services, as described in Attachment A, for the City of Franklin.

NOW, THEREFORE, in consideration of these premises and the following mutual covenants, terms, and conditions, the CITY and the CONTRACTOR agree as follows:

I. BASIC SERVICES AND AGREEMENT ADMINISTRATION

- A. The CONTRACTOR shall provide services to the CITY for the quarry monitoring activities specified in Attachment A.
- B. The CONTRACTOR shall serve as the CITY's professional representative in matters to which this AGREEMENT applies. The CONTRACTOR may employ the services of outside consultants and subcontractors when deemed necessary by the CONTRACTOR to complete work under this AGREEMENT following approval by the City.

- C. The CONTRACTOR is an independent contractor and all persons furnishing services hereunder are employees of, or independent subcontractors to, the CONTRACTOR and not of the CITY. All obligations under the Federal Insurance Contribution Act (FICA), the Federal Unemployment Tax Act (FUTA), and income tax withholding are the responsibility of the CONTRACTOR as employer. The CITY understands that express agreements may exist between the CONTRACTOR and its employees regarding extra work, competition, and nondisclosure.

II. FEES AND PAYMENTS

The CITY agrees to pay the CONTRACTOR, for and in consideration of the performance of Services [Additional language to be determined, likely reference to an attachment incorporating a schedule of Costs/Fees, such as the RFP Appendix B Project Costs]:

- A. The CONTRACTOR shall invoice the CITY bi-monthly following delivery of required reports for the prior bi-monthly period. The invoice shall include base costs and any adjustment for additional services as provided for herein. The CITY shall pay any undisputed invoices within 30 days of receipt. Alternatively, the CITY shall notify the CONTRACTOR of any dispute to an invoice, and the nature of the dispute, within 30 days of receipt of the invoice.
- B. In consideration of the faithful performance of this AGREEMENT, the CONTRACTOR will not exceed the fee for Services without written authorization from the CITY to perform work over and above that described in the original AGREEMENT or Attachment A. [Verify against final negotiated service structure].
- C. Should the CITY find deficiencies in work performed or reported, it will notify the CONTRACTOR in writing within thirty (30) days of receipt of invoice and related report and the CONTRACTOR will remedy the deficiencies within thirty (30) days of receiving the CITY's notice, which period may be extended by mutual agreement of the CONTRACTOR and the CITY's Planning Manager. This Subsection shall not be construed to be a limitation of any rights or remedies otherwise available to the CITY.

III. MODIFICATION AND ADDITIONAL SERVICES

- A. This AGREEMENT may only be amended by written instrument signed by both the CITY and the CONTRACTOR.
- B. The CITY may, in writing, request changes in the Basic Services required to be performed by the CONTRACTOR under this AGREEMENT. Upon acceptance of the request of such changes, the CONTRACTOR shall submit a "Change Order

Request Form” to the CITY for authorization, notice to proceed, and signature. Following execution the City shall return a copy to the CONTRACTOR. Should any such actual changes be made, an equitable adjustment (based upon fees, costs, and rates set forth in Attachment B, where applicable) will be made to compensate the CONTRACTOR or reduce the fixed price, for any incremental or decremental labor or direct costs, respectively. Any claim by the CONTRACTOR for adjustments hereunder must be made to the CITY in writing no later than forty-five (45) days after receipt by the CONTRACTOR of notice of such changes from the CITY.

IV. ASSISTANCE AND CONTROL

- A. [Name], [Title], will serve as Project Manager and will coordinate the work of the CONTRACTOR, and be solely responsible for communication within the CITY’s organization as related to all issues originating under this AGREEMENT.

V. TERMINATION

- A. This AGREEMENT may be terminated by either party to this AGREEMENT upon thirty (30) days written notice. Upon such termination by the CITY, the CONTRACTOR shall be entitled to payment of such amount as shall fairly compensate the CONTRACTOR for all work approved and completed up to the date of termination, except that no amount shall be payable for any losses of revenue or profit from any source outside the scope of this AGREEMENT, including but not limited to, other actual or potential AGREEMENTS for services with other parties.
- B. In the event that this AGREEMENT is terminated for any reason, the CONTRACTOR shall deliver to the CITY all data, reports, summaries, correspondence, and other written, printed, or tabulated material pertaining in any way to services that the CONTRACTOR may have accumulated. Such material is to be delivered to the CITY whether in completed form or in process.
- C. The rights and remedies of the CITY and the CONTRACTOR under this section are not exclusive and are in addition to any other rights and remedies provided by law or appearing in any other article of this AGREEMENT.
- D. Failure to maintain the designated staff or such similarly qualified staff as determined by the City may lead to termination of the agreement, as determined by the city.

VI. INSURANCE

The CONTRACTOR shall, during the life of the AGREEMENT, maintain insurance coverage, with an authorized insurance carrier operating within the State of Wisconsin, at least equal to the minimum limits set forth below:

- | | |
|--|--|
| A. Limit of General/Commercial Liability | \$2,000,000 |
| B. Automobile Liability: Bodily Injury/Property Damage | \$1,000,000 |
| C. Excess Liability for General Commercial or Automobile Liability | \$3,000,000 |
| D. Worker's Compensation and Employers' Liability | \$500,000 or per statute
whichever is greater |
| E. Professional Liability | \$1,000,000 |

Upon the execution of this AGREEMENT, the CONTRACTOR shall supply the CITY with a suitable statement certifying said protection and defining the terms of the policy issued, which shall specify that such protection shall not be cancelled without thirty (30) calendar days prior notice to the CITY, and naming the CITY as an additional insured for General Liability.

VII. INDEMNIFICATION AND ALLOCATION OF RISK

- A. To the fullest extent permitted by law, the CONTRACTOR shall indemnify and hold harmless the CITY and the CITY's officers, directors, partners, and employees from and against costs, losses, and damages (including but not limited to reasonable fees and charges of engineers, architects, attorneys, and other professionals, and reasonable court or arbitration or other dispute resolution costs) caused solely by the negligent acts or omissions of the CONTRACTOR or the CONTRACTOR's officers, directors, partners, employees, and consultants in the performance of the CONTRACTOR's services under this AGREEMENT.
- B. To the fullest extent permitted by law, the CITY shall indemnify and hold harmless the CONTRACTOR and the CONTRACTOR's officers, directors, partners, employees, and consultants from and against costs, losses, and damages (including but not limited to reasonable fees and charges of engineers, architects, attorneys, and other professionals, and reasonable court or arbitration or other dispute resolution costs) caused solely by the negligent acts or omissions of the CITY or the CITY's officers, directors, partners, employees, and consultants with respect to this AGREEMENT.
- C. To the fullest extent permitted by law, the CONTRACTOR's total liability to the CITY and anyone claiming by, through, or under the CITY for any injuries, losses, damages and expenses caused in part by the negligence of the CONTRACTOR and in part by the negligence of the CITY or any other negligent entity or individual, shall not exceed the percentage share that the CONTRACTOR's negligence bears to the total negligence of the CITY, the CONTRACTOR, and all other negligent entities and individuals.

VIII. TERM AND TIME FOR COMPLETION

- A. The initial term of this agreement shall be thirteen months from receipt of a Notice to Proceed. The term anticipates monitoring and at-quarry work occurs for 12 months, thereby leaving one month to compile, report, and present results for

the final period and to provide the required annual summary information and recommendations.

- B. In order to enable to the City to evaluate its complete quarry monitoring program and to consider altering the scope of work required for future years, the initial term may be extended for a period and for terms as mutually agreed to in writing by the CITY and the CONTRACTOR. Each such subsequent term may also be extended for a period and for terms as mutually agreed to in writing by the CITY and the CONTRACTOR.
- C. The CONTRACTOR shall commence immediately upon receipt of a Notice to Proceed and shall complete all work required herein by [DATE].

IX. DISPUTES

This AGREEMENT shall be construed under and governed by the laws of the State of Wisconsin. The venue for any actions arising under this AGREEMENT shall be the Circuit Court for Milwaukee County. The prevailing party shall be awarded its actual costs of any such litigation, including reasonable attorney fees.

X. RECORDS RETENTION

The CONTRACTOR shall maintain all records pertaining to this AGREEMENT during the term of this AGREEMENT and for a period of not less than three (3) years following its completion. Such records shall be made available by the CONTRACTOR to the CITY for inspection and copying upon request.

XI. CONFLICT OF INTEREST

The nature of this project requires an impartial, unbiased approach on the part of the CONTRACTOR. The CONTRACTOR shall not, during the performance of these services, engage in any other professional relationship or representation that would create any type of conflict or conflict of interest with regard to the consulting services provided hereby to and for the CITY.

Further, the CONTRACTOR warrants that neither it nor any of its affiliates has any financial or other personal interest that would conflict in any manner with the performance of the services under this AGREEMENT and that neither it nor any of its affiliates will acquire directly or indirectly any such interest. The CONTRACTOR warrants that it will immediately notify the CITY if any actual or potential conflict of interest arises or becomes known to the CONTRACTOR. Upon receipt of such notification, a review and written approval by the CITY is required for the CONTRACTOR to continue to perform work under this AGREEMENT.

XII. PROFESSIONALISM

The CONTRACTOR stipulates that the same degree of care, skill and diligence shall be exercised in the performance of the services as is possessed and exercised by a member of the same profession, currently practicing, under similar circumstances, and all persons providing such services under this AGREEMENT shall have such active certifications, licenses and permissions as may be required by law.

XIII. PURSUANT TO LAW

Notwithstanding anything to the contrary anywhere else set forth within this AGREEMENT, all services and any and all materials and/or products provided by the CONTRACTOR under this AGREEMENT shall be in compliance with all applicable governmental laws, statutes, decisions, codes, rules, orders, and ordinances, be they Federal, State, County or Local.

IN WITNESS WHEREOF, the parties have caused this AGREEMENT to be executed on the day and year first above written.

CITY OF FRANKLIN, WISCONSIN

CONTRACTOR

BY: _____

BY: _____

PRINT NAME: _____

PRINT NAME: _____

TITLE: _____

TITLE: _____

DATE: _____

DATE: _____

BY: _____

BY: _____

PRINT NAME: _____

PRINT NAME: _____

TITLE: _____

TITLE: _____

DATE: _____

DATE: _____

ATTACHMENT A to the AGREEMENT

ATTACHMENT A will incorporate the Scope of Work from the RFP and/or the Work Plans from the consultant's RFP submission and/or any such negotiated deviations or alterations.

ATTACHMENT B to the AGREEMENT

An attachment B might incorporate a schedule of Costs and Fees, such as the RFP's Appendix B: Project Costs.

**City of Franklin – Quarry Monitoring Services
Request for Proposals**

Appendix B – Project Costs Part 1.

Base Bi-Monthly Charges:

1. Blast Monitoring, Data Collection, and Evaluation		
a) Review Blasting Reports:	Included	
b) Fixed-Location Blast Monitoring with a City-provided seismograph:	Included	
c) Mobile-Location Blast Monitoring:	Included	
d) Check Blasting Records	<u>Included</u>	
Cost for Scope of Work #1	(A)	_____
2. Air Quality Monitoring, Data Collection, and Evaluation		
PM10 Monitoring: with Consultant-Provided Aerosol Monitor [2.a]	(B)	_____
3. Quarry Operations Monitoring and Monitoring by Direct Observation		
a) Site Visits:	Included	
b) Direct Air Quality Observation:	Included	
c) Quarry Operations Review:	Included	
Cost for Scope of Work #3	(C)	_____
4. Additional PDD Compliance and		
5. Reporting Requirements and Coordination with City Staff.		
Subtotal All Bi-Monthly Responsibilities	(D)	_____
 SUBTOTAL BASE TOTAL COSTS	(A) + (B) + (C) + (D) = (E)	_____
 Annual Reporting Requirement [Scope of Work 5.c]	(F)	_____
 TOTAL BASE ANNUAL COSTS	(E) + (F)	_____

**City of Franklin – Quarry Monitoring Services
Request for Proposals**

Appendix B – Project Costs Part 2.

Additional Required Costs or Cost Adjustments Per Scope of Work

1. Blast Monitoring, Data Collection, and Evaluation

a) Additional Cost for Scope of Work #1 if the Proposing Consultant supplies the Fixed-Location Blast Monitoring seismograph

Possible adjustment to Project Costs Part 1. (A) _____

c) Additional Mobile-Location Blast Monitoring:

“Furthermore, the contractor will provide a cost per placement (as described above) for any additional calls for seismograph services or placement, beyond those numbers and uses set forth above.” [From Scope of Work 1.c) iii..]

Unit cost pricing or possible adjustment to Project Costs Part 1. (A) _____

2. Air Quality Monitoring, Data Collection, and Evaluation

Reduction to Cost (B) with City-Provided aerosol monitor

Possible adjustment to Project Costs Part 1. (B) _____

Additional Cost for each placement of a Consultant-provided aerosol monitor

[From Scope of Work 2. a) ii.]

Unit cost pricing/possible adjustment to Project Costs Part 1.(B) _____

Additional Cost for each placement of a City-provided aerosol monitor

[As may be required per Scope of Work 2. b)]

Unit cost pricing/possible adjustment to Project Costs Part 1. (B) _____

Socha, Betty

To: Lisa Huening
Subject: RE: City of Franklin Request for Proposals for Quarry Monitoring Services: additional information

From: Lisa Huening
Sent: Friday, June 01, 2012 8:54 AM
To: 'Druckman, Jeffrey S'; 'Harding, Jessica L'; 'Don Cassier'; 'Rick.Schmidt@stantec.com'; 'Powell, Ted'; 'Stuart Dykstra'; 'Paulos, Mike'; 'Stevens, Gordon'; 'Brenda Metzger'; 'Trey Brooks'; 'Schroyer, Blaine R.'; 'Derouin, Douglas'; 'paquint@ayresassociates.com'; 'Smerage, Jeremy'
Cc: Lisa Huening; Joel Dietl
Subject: FW: City of Franklin Request for Proposals for Quarry Monitoring Services: additional information
Importance: High

To all interested Parties:

Attached for your information is the last report from the consultant the City of Franklin had previously hired -- from 2002 through 2005 -- to monitor the subject quarries within the City.

Please note that this report only represents what the previous consultant had submitted to the City summarizing its monitoring efforts. It is not intended to constrain or otherwise limit your responses to the current Request for Proposals.

Joel Dietl, AICP
Planning Manager
Department of City Development
City of Franklin
9229 W. Loomis Road
Franklin, Wisconsin 53132
phone: (414) 425-4024
fax: (414) 427-7691
email: jdietl@franklinwi.gov

Socha, Betty

From: Lisa Huening <LHuening@franklinwi.gov>
Sent: Friday, June 01, 2012 12:42 PM
To: Socha, Betty
Subject: FW: City of Franklin Request for Proposals for Quarry Monitoring Services: additional information #2

Importance: High

To all interested Parties:

In response to a request for clarification, it should be noted that the references to "one week" in the RFP, located in the Scope of Work, Section 1.c)i. Mobile Location Blast Monitoring and Section 2.a)i. Air Quality Monitoring, Data Collection, and Evaluation, means 7 days.

Joel Dietl, AICP
Planning Manager
Department of City Development
City of Franklin
9229 W. Loomis Road
Franklin, Wisconsin 53132
phone: (414) 425-4024
fax: (414) 427-7691
email: jdietl@franklinwi.gov

Socha, Betty

From: Lisa Huening <LHuening@franklinwi.gov>
Sent: Wednesday, June 06, 2012 7:45 AM
To: 'Druckman, Jeffrey S'; 'Harding, Jessica L'; 'Don Cassier'; 'Rick.Schmidt@stantec.com'; 'Powell, Ted'; 'Stuart Dykstra'; 'Paulos, Mike'; 'Stevens, Gordon'; 'Brenda Metzger'; 'Trey Brooks'; 'Schroyer, Blaine R.'; Derouin, Douglas; Socha, Betty; 'paquint@ayresassociates.com'; 'Smerage, Jeremy'
Cc: Lisa Huening; Joel Dietl
Subject: FW: City of Franklin Request for Proposals for Quarry Monitoring Services: additional information #3

Importance: High

To all interested Parties:

Pursuant to the process set forth in the Consultant Selection Procedures #1 Pre-Submittal Questions section of the RFP, the following additional information is being provided in response to questions raised last week.

- Scope of Work section. While independent airblast monitoring by the consultant is not requested, this RFP does envision that the consultant will regularly review each quarry's own airblast monitoring efforts and results for conformance with the requirements of the respective PDDs.
- Scope of Work, Additional PDD Compliance section. It is specifically intended that this section be very broad and open-ended in its potential application. It is envisioned that any other applicable quarry monitoring-, data collection-, evaluation-, and/or enforcement-related regulations or standards that the City might not be aware of could be brought to light and addressed. However, the primary focus of this section is upon the quarry related blasting and air quality issues found within the subject PDDs, and secondarily upon other related issues within the PDDs such as stormwater management, erosion control, truck washing, etc.
- Scope of Work, Air Quality Monitoring, Data Collection, and Evaluation section. The RFP is intended to be somewhat flexible in regard to the means and methods of air quality monitoring, subject to the requirements of the respective PDDs (i.e. PM10 standard) and any applicable local, state or federal regulations or standards. It is further intended that such air quality monitoring primarily focus upon peak levels, and not necessarily upon longer term/ambient levels. If a consultant believes that this strategy or the RFP is not clear or in the City's best interest, additional clarity or alternative proposals should be identified. As stated in Proposal Requirements I.b., "The work program may propose alternative or additional services the consultant believes are in the best interests of the City or reflective of current industry best practices."
- Scope of Work, Reporting Requirements and Coordination with City Staff section. It can be noted that the number of quarry related complaints the City has received over the past 7 years has ranged from 4 to 39 per year.
- Blast Monitoring, Data Collection, and Evaluation section. There are 3 City-established blast monitoring sites.
- Scope of Work, Blast Monitoring, Data Collection, and Evaluation section. The consultant will need access to two seismographs at all times, one for fixed location monitoring and one for mobile location monitoring (one option is to use the City of Franklin's seismograph for one of the two). Appropriate costs should be reflected in Appendix B Part 2.
- Scope of Work, Blast Monitoring, Data Collection, and Evaluation, Mobile Location Blast Monitoring section. The RFP anticipates up to 20 locations total (not per quarry), each lasting one week, for such blast monitoring.
- Scope of Work, Reporting Requirements and Coordination with City Staff section. The RFP requests that by noon the day after becoming aware of a potential violation of a PDD requirement or standard (not necessarily the day after the actual occurrence itself), the City must be notified of any such situation. The Scope of Work for blast monitoring and data collection for instance, anticipate that readings from the seismographs will occur on a

weekly and not a daily basis. It is possible, however, that in certain instances immediate data collection may be necessary.

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Planning Manager
Department of City Development
City of Franklin
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Franklin, Wisconsin 53132
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fax: (414) 427-7691
email: jdietl@franklinwi.gov

ATTACHMENT B

Work Program/Cost Estimate Detail

**Work Program/Cost Estimate Detail
Summary Table**

City of Franklin Quarry Monitoring / SCS Opportunity #25277212

Section		Equipment Rental &			Expenses	Subtotal
		Labor	Laboratory Analysis			
1	Blast Monitoring, Data Collection, and Evaluation	\$ 25,459	\$ 5,280		\$ 1,240	\$ 31,979
2	Air Quality Monitoring, Data Collection, and Evaluation	\$ 19,545	\$ 3,930		\$ 980	\$ 24,455
3	Quarry Monitoring by Direct Observation	\$ 12,955	\$ 280		\$ 650	\$ 13,885
4	Additional PDD Compliance	\$ 1,205	-		-	\$ 1,205
5	Reporting & Coordination with City Staff	\$ 19,433	\$ 380		\$ 470	\$ 20,283
Subtotals		\$ 78,597	\$ 9,870		\$ 3,340	\$ 91,807
					Total	\$ 91,807

**Work Program/Cost Estimate Detail
Quarry Monitoring, City of Franklin, Wisconsin, File #25277212**

Task	Item Description	Personnel Hours (Staff/Rate)											Admin	SCS Costs				
		MRH \$165	BJS \$130	PWS \$125	RWT \$130	CJ \$115	AW \$98	AW-Field \$82	Sr.Tech \$75	Sr. Draft \$80								
1	Blast Monitoring, Data Collection, and Evaluation																	
	Blasting report review (each monitoring event)		5			4	9										\$1,992	
	Fixed (18 locations) blast monitoring - field activities		9		3	8		50									\$6,230	
	Fixed location data analysis		5		4	5	18										\$3,509	
	Mobile (20 location) blast monitoring - field activities		10		2	5	20	50									\$5,885	
	Mobile - location data analysis		5		5	5	20										\$3,835	
	Side-by-side mobile-location tests (4) & data analysis		4		7	2	4										\$2,052	
	Check blasting records/data evaluation (monthly)		6					12									\$1,956	
	Subtotals		0	44	0	21	29	63	0	100	0	0	105	0	0	0	\$25,459	
	2	Air Quality Monitoring, Data Collection, and Evaluation																
Set-up sampler and collect filters (6) 7-day periods			6	12								105					\$10,155	
Perform sampler audits, calibrations daily (6) 7-day periods				24													\$3,000	
Report preparation (6) & review			3	48													\$6,390	
Subtotals			0	9	84	0	0	0	0	105	0	0	105	0	0	0	\$19,545	
3	Quarry Monitoring by Direct Observation																	
	Unannounced site visits (Mar.- Oct) 3/month; 24 visits total		9									48					\$5,106	
	Air quality observation (Mar.- Oct) 3/month; 24 visits total		2									24					\$2,228	
	Unannounced site visits (Nov - Feb) 1/month; 4 visits total		1									8					\$786	
	Air quality observation (Nov - Feb) 1/month; 4 visits total		1									4					\$458	
	Report findings of each visit to the City		14									14					\$2,968	
	Review quarry operations records and procedures		1	2								12					\$1,409	
	Subtotals		1	29	0	0	0	0	0	110	0	0	110	0	0	0	\$12,955	
	4	Additional PDD Compliance																
		Evaluate quarry operations compliance relative to regs & PDD		1	8													\$1,205
5	Reporting & Coordination with City Staff																	
	Bi-monthly reports (6) - blast monitoring data & discussion		3	6	9	12	48						3				\$9,264	
	Bi-monthly reports (6) - complaint discussion & recommendations		1	3	3	6											\$1,323	
	Annual report		1	3	3	5	16						1				\$2,998	
	Public meeting participation (8)		8	8	9												\$3,530	
	Coordination with City staff			8		6	6										\$2,318	
	Subtotals		12	28	0	18	26	76	0	0	0	0	4			13	\$19,433	
	TOTALS		14	118	84	39	55	139	110	205	4	13	205	4	13	13	\$78,597	
	TOTALS		\$2,310	\$15,340	\$10,500	\$5,070	\$6,325	\$13,622	\$9,020	\$15,375	\$320	\$715	\$15,375	\$320	\$715	\$78,597		

PROJECT/PROPOSAL NAME/FILE:
DATE:

City of Franklin Quarry Monitoring 25277212
June 7, 2012

	Miles/RT	Trips	Subtotal Miles	Unit	Unit Cost	Cost
Section 1 - Blast monitoring						
Mileage from Menomonee Falls	42	17	714	Miles	\$0.555	\$396.27
Mileage from Pt. Washington	84	3	252	Miles	\$0.555	\$139.86
Mileage from Madison	42	16	672	Miles	\$0.555	\$372.96
Quarry Record Review						
Mileage from Pt. Washington	84	1	84	Miles	\$0.555	\$46.62
Mileage from Madison (monthly reviews)	42	12	504	Miles	\$0.555	\$279.72
Subtotal						\$1,240.00
Section 1 - Equipment Rental						
Seismograph rental		1		Year	\$5,225.00	\$5,225.00
Miscellaneous		1		L.S.	\$50.00	\$50.00
Subtotal						\$5,280.00
	Miles/RT	Trips	Subtotal Miles	Unit	Unit Cost	Cost
Section 2 - Air Monitoring (42 da total)						
Mileage from Menomonee Falls	42	21	882	Miles	\$0.555	\$489.51
Mileage from Madison	42	21	882	Miles	\$0.555	\$489.51
Subtotal						\$980.00
Section 2 - Equipment Rental						
Air sampler rental		1		Lump	\$2,000.00	\$2,000.00
Miscellaneous		1		Lump	\$100.00	\$100.00
Filter analysis (assuming one air monitor)		42		Each	\$40.00	\$1,680.00
Filter Shipment		6		Each	\$25.00	\$150.00
Subtotal						\$3,930.00
	Miles/RT	Trips	Subtotal Miles	Unit	Unit Cost	Cost
Section 3 - Quarry Observations (28 visits)						
Mileage from Menomonee Falls	42	14	588	Miles	\$0.555	\$326.34
Mileage from Madison	42	14	588	Miles	\$0.555	\$326.34
Subtotal						\$650.00
Equipment Rental						
Digital Camera		28		day	\$10.00	\$280.00
Subtotal						\$280.00
	Miles/RT	Trips	Subtotal Miles	Unit	Unit Cost	Cost
Section 5 - Reporting & Coordination with the City						
Mileage from Madison (8 Public meetings)	42	8	336	Miles	\$0.555	\$186.48
Mileage from Pt. Washington	84	6	504	Miles	\$0.555	\$279.72
Subtotal						\$470.00
Office Expense						
Postage		2		Lump	\$50.00	\$100.00
Copies		4000		Each	\$0.07	\$280.00
Subtotal						\$380.00

Note: Actual mileage round trip from Madison to Franklin 162 miles. Mileage charged will be based on travel to/from Menomonee Falls.

P:\25277212\Attachment B - Work Program-Cost Estimate Detail\[Work Program-Cost Estimate Detail.xls]Exp

ATTACHMENT C

**PDD – Sections Related to Quarry Monitoring
(Pages 27 through 31)**

Scanned

STATE OF WISCONSIN: CITY OF FRANKLIN: MILWAUKEE COUNTY

ORDINANCE NO. 97- 1456

AN ORDINANCE TO CREATE SECTION 13.26 OF THE ZONING CODE,
ORDINANCE NO. 221, ESTABLISHING
PLANNED DEVELOPMENT DISTRICT NO. 23
(Limestone Quarry and Mixed Use)

AND TO REZONE A PARCEL OF LAND FROM R-6 SINGLE FAMILY RESIDENTIAL
DISTRICT, M-2 GENERAL INDUSTRIAL DISTRICT, M-3 QUARRYING
DISTRICT, FW FLOODWAY DISTRICT, FC FLOODPLAIN CONSERVANCY, FFO
FLOODPLAIN FRINGE OVERLAY DISTRICT, C-1 CONSERVANCY, AND A-1
AGRICULTURAL DISTRICT TO PLANNED DEVELOPMENT DISTRICT NO. 23, FW
FLOODWAY DISTRICT, FC FLOODPLAIN CONSERVANCY, FFO FLOODPLAIN
FRINGE OVERLAY DISTRICT.

PROPERTY LOCATION: 6211 West Rawson Avenue

WHEREAS, the Common Council of the City of Franklin (the
"City") initiated on December 3, 1996 consideration of a rezoning
of property owned by Payne & Dolan, Inc. (the "Operator"), having
corporate offices at N3 W23650 Badinger Road, Waukesha, WI 53187,
to a planned development district (limestone quarry and mixed
use); and

WHEREAS, the Common Council also initiated on December 3,
1996 consideration of a related rezoning of property located
immediately north and east of the Operator's property, owned by
Vulcan Materials Company ("Vulcan"), having regional division
offices at 747 East 22nd Street, Suite 200, Lombard, Illinois
60148, to a planned development district (limestone quarry and
mixed use); and

WHEREAS, the City Plan Commission and Common Council
extensively considered a proposed planned development rezoning of
the properties owned by Operator and Vulcan in 1995;

Department of Natural Resources pursuant to Wis. Stats. § 144.9407 that are more stringent than those initially included in this Ordinance except to the extent such standards would have the effect of reducing the Extraction Area or requiring the relocation or reconfiguration of the berms. By accepting this Ordinance, the Operator consents in advance to any such amendment.

7. Operator shall provide Financial Assurance to secure its obligations under this subsection S.

T. Limits on Blasting

1. Ground vibration resulting from Operator's blasting shall not exceed 0.30 inches per second on at least 85% of its blasts within any single calendar year, measured at the residence or inhabited structure closest to the site of the blast which is not owned or controlled by the Operator. Notwithstanding any other provision in this subsection, the Operator shall not exceed the ground vibration limitation imposed by the Wisconsin Department of Industry, Labor and Human Relations in Figure 7.64 of ch. ILHR 7, Wis. Adm. Code, or 0.65 inches per second, whichever is more restrictive, on any blast.
2. Airblast resulting from Operator's blasting shall not exceed 123 dB on at least 85% of its blasts within any single calendar year, measured at the residence or inhabited structure closest to the site of the blast which is not owned or controlled by the Operator. Notwithstanding any other provision in this subsection, the Operator shall not exceed the airblast limitation imposed by the Wisconsin Department of Industry, Labor and Human Relations in Chapter ILHR 7, Wis. Adm. Code on any blast.
3. Operator shall each month provide to the City Fire Department the recorded ground vibration and airblast levels of blasts conducted during the previous month. These records may be in the form of blasting logs redacted to delete any sensitive proprietary information, provided, however, that appropriate City officials may inspect the

Operator's original blasting logs upon request and may obtain copies of the original blasting logs upon written request and upon undertaking in writing to afford appropriate trade secret protection to such documents.

4. Operator shall cause blasts to occur only between the hours of 8:00 a.m. and 4:00 p.m. on Monday through Friday. Blasting shall not occur on Saturday, Sunday, nor on any of the following holidays: January 1, Memorial Day, July 4, Labor Day, Thanksgiving and December 25.
5. In the event an explosive charge fails to detonate, Operator may detonate the failed charge beyond the 4:00 p.m. blasting limitation if necessary to avoid leaving undetonated explosives in the ground during evening and nighttime hours; provided, however, that Operator shall first notify the City Fire Chief or designee.
6. The limitations on the hours of blasting shall not prevent the Operator from drilling and otherwise making preparations for blasting prior to 8:00 a.m. or after 4:00 p.m., subject to the other time restrictions imposed by this Ordinance.

U. Other Hours of Operation

Quarry-related operations other than blasting, including drilling, crushing, washing and sorting of product, hauling or loading of product, stripping of overburden, construction of berms, and sales of product shall be limited to the hours of 6:30 a.m. to 7:00 p.m., Monday through Friday, and 7:00 a.m. to 4:00 p.m. on Saturday; provided, however, that office activities pumping and other dewatering activities and reasonable maintenance activities shall be permitted at anytime. (It is understood that Operator's employees will begin arriving and preparing for operations approximately half hour before starting time and that Operator's employees will be engaged in closing activities and preparations for start-up the next day for approximately half hour after the close of operations.) No quarry-related operations shall take place on Sunday or the following holidays: January 1, Memorial Day, July 4, Labor Day, Thanksgiving and December 25, excepting pumping and other dewatering

activities and reasonable maintenance activities.
(These hours of operation set forth in this subsection shall not control operations of the Asphalt Plant Operations and Facilities, which are controlled by the approving resolutions.)

V. Opacity and Air Quality

1. Operator shall not allow dust particles in the air from any Extraction activity or related quarry operations, at any property line (except as provided in this subsection V, greater than 0% opacity or the US EPA PM₁₀ 24 Hour Standard (150 µg/m³); provided, however, that these restrictions shall not apply until after completion of the Operator's and Vulcan's berm-building and landscaping obligations under this Ordinance and the companion Vulcan planned development ordinance, completion by Milwaukee County of the Rawson Avenue expansion project in the vicinity of the Property, and completion by the City of the 51st Street water project.

2. Operator shall be exempt from meeting the maximum opacity and PM₁₀ Standard levels at property lines adjoining another Extraction activity in a different ownership, provided that the joint contributions do not exceed the limitations at any property line where such limitations apply.

3. The Operator shall provide dust control for its operations at all times, in addition to the landscaped berms, using an appropriate mix, as applicable, of the following methods, among others, to achieve the standards imposed by this Ordinance: water spray (weather permitting), wheel wash (weather permitting), dust curtains on transfer points, adjustable conveyor stackers, screen covers, sweepers and paving of entrance roadway. The Operator shall maintain records of all dust control measures including the time, location of application and quantity of materials used.

W. Access to Property

1. Direct vehicular access to the Property with respect to all Quarry-Related Operations and Facilities shall be by a single entrance/exit from Rawson Avenue, and direct access from any other adjoining right-of-way shall be prohibited;

provided, however, that the Operator may continue to utilize its 68th Street access until such time as it discontinues its Quarry Related Operations west of the Root River.

2. Cross access between the Property and the adjoining quarry property now owned by Vulcan shall be allowed subject to private agreements or understandings of the owners.

X. Operator Enhancements

Operator shall take reasonable steps to eliminate dust, noise and any other potentially negative impacts upon surrounding property owners, utilizing the latest cost-effective technology proven and demonstrated in the Operator's industry, which will not impose an unreasonable financial burden on the Operator, for the duration of the Extraction operations on the Property.

Y. New Property Rights

The City recognizes that it may be advantageous for the Operator to acquire from Vulcan rights to quarry or otherwise use real property which is adjacent to the Property. In the event of such an acquisition, the terms and conditions of the planned development district zoning applicable to such property shall continue in force. The Operator shall promptly notify the City in writing of any such acquisitions of property rights, and thereafter, to the extent of such rights, the Operator shall have the responsibility of compliance with the planned development ordinance governing use of such property.

Z. Biannual Reporting.

To assist the City in the administration of this Ordinance, the Operator shall report to the Plan Commission approximately every two (2) years from and after the effective date of the portions of this Ordinance affecting the Extraction Area.

AA. City Monitoring and Administrative Costs.

The Operator shall be responsible to the City for all reasonable actual costs incurred by the City in the monitoring of Operator's operations hereunder and in

the administration of this Ordinance and review of any plans submitted for approval under this Ordinance. Such actual costs shall be the actual salary and benefit costs incurred for the actual reasonable time spent by City employees on such monitoring, review or administrative activities, and the actual reasonable costs to the City of any independent contractors or consultants hired by the City for such monitoring, review or administrative services, less any related fees paid by the Operator, in a total amount not to exceed \$15,000 each calendar year. Such maximum amount shall be adjusted annually by any increase or decrease in the Consumer Price Index (U.S. City Average -- All Urban Consumers -- All Items), during the prior calendar year, commencing January 1999. No independent contractors or consultants shall be hired by the City, and no unusual monitoring or review projects shall be undertaken by the City, without good cause and without giving the Operator a reasonable opportunity to be heard. The City shall provide an itemized invoice to Operator for such costs quarterly. Upon request by the Operator, the City shall promptly provide supporting documentation. Each such invoice shall be paid within 30 days of presentation.

BB. Special Assessment Acknowledgment

Certain undeveloped lands owned by the Operator adjacent to 51st Street are subject to a substantial special assessment for water service levied pursuant to City of Franklin Common Council Resolution No. 97-4538, which service will help alleviate the City's concern about the potential impact of the expansion of the quarry Extraction Area upon property owners with wells in the vicinity of such expansion. Recognizing that subsection FF of this Ordinance requires the Operator to submit restrictive covenants to maintain such buffer areas as open space until any proposed development may be approved by the City, and that such requirement may substantially diminish the special benefit of the water service to the Operator, the City hereby acknowledges, for the purpose of preventing the Common Council from reconsidering or rescinding this ordinance, that acceptance of such special assessment without challenge shall necessarily vest the Operator's rights under this Ordinance, subject to the restrictions and requirements of this Ordinance. Per request of the City Engineer, add the following: "The terms of this subsection S

ATTACHMENT D

SCS Tracer Environmental – Statement of Qualifications

SCS Tracer Environmental

SCS Tracer Environmental Air Monitoring Overview

SCS Tracer Environmental (Tracer) is a comprehensive provider of environmental consulting services. These services specifically include ambient air and meteorological monitoring, engineering, and tracer sciences where the company and its professional staff have over 25 years of successful project experience. With this experience SCS Tracer has developed and implemented numerous air monitoring programs with the goal of assessing actual emission rates and downwind exposures from industrial operations. These programs have helped alleviate public concerns of several industrial operations by providing real world data and quantitative evidence to the contrary of what is perceived by community members. Public perception of pollutant exposure generally exceeds the actual measured exposures from monitoring programs. In this case, the lack of truth hurts and knowledge is power.

The company's prime areas of expertise include specialized atmospheric dispersion and transport studies utilizing its established capabilities. Tracer maintains a staff of trained, experienced and motivated professionals who apply their multi-disciplinary skills and experience to provide its customers with practical and cost-effective solutions for highly specialized measurement programs. Among its capabilities is the custom design and fabrication of laboratory and field instrumentation to meet specific client requirements in tracer sciences and ambient air monitoring programs.

Tracer's primary facility in San Marcos, CA consists of 12,000 sq-ft of technical offices, instrumentation and analytical laboratories, shop facilities, data processing and quality control centers. Our staff of engineers and scientists are some of the finest in their fields with years of experience in dealing with complex chemical and environmental processes. The following laboratory sections can support specific air monitoring project needs:

- Wet Chemistry Laboratory
- Particulate Filter and Gravimetric Laboratory
- Air Quality Services Laboratory (AQL)
- Tracer Research and Development Laboratory (TRDL)
- Air Quality Data Processing Facility
- Gas Chromatography Laboratory
- Fabrication Shop

In addition to the San Marcos, CA facility, SCS Tracer Environmental maintains a specialized support laboratory dedicated to the conduction of air quality and meteorology monitoring projects. This 3500 sq-ft facility, the AQL, is the field service center for all SCS Tracer Environmental ambient air quality monitoring projects. The AQL is equipped with an instrument calibration laboratory, electronics shop, data processing and telemetry systems, and systems assembly area for monitoring trailer repair, modification, and construction. SCS Tracer Environmental maintains NBS traceability for all primary and secondary standards used to service and calibrate instrumentation used in PSD monitoring projects. The AQL is equipped with an inventory of spare parts for equipment commonly used by the company in monitoring networks. SCS Tracer Environmental also maintains an array of spare and used equipment for short-term or

SCS Tracer Environmental

temporary installations. This equipment array includes several full PSD monitoring station set-ups.

The company maintains over a \$1.5 million (replacement value) air quality monitoring and tracer sampling equipment for use on projects. All field measurement programs are operated under a rigorous Quality Assurance and Quality Control program that has been evaluated by the EPA and California Air Resources Board.

Why Monitor for Particulate Matter?

Ambient air monitoring provides what no modeling study provides - actual data. In today's environment, only actual data can be used to assess the air quality impacts of a given source(s) at a given point. Modeling studies often create more questions than answers. Monitoring programs conducted within the guidelines of a quality assurance and quality control program put to rest many of these questions. This is especially important for facilities that have potential problems with the surrounding community. Direct measurement of ambient impacts can put a quick end to the rampant speculation that can drive uninformed activism. No matter the pollutant of concern, SCS Tracer Environmental can design a cost-effective program responsive to the specific needs of the situation.

One example of such a program is Granite Construction's collaboration with Tracer and the community. Granite Construction Company (Granite) is in the process of constructing the Rosemary's Quarry aggregate plant in northern San Diego County. Community concerns regarding potential particulate and chemical emissions from the quarry have resulted in Granite seeking the design and implementation of an air monitoring plan that meets United States Environmental Protection Agency (USEPA) and California Air Resources Board (CARB) standards. Tracer worked with Granite and the community towards the development of a Particulate Matter monitoring program. The monitoring effort provides emissions information in a manner that fully addresses the community concerns while fairly characterizing the emissions from the quarry. Also, Granite has been able to determine operational practices that lead to the greatest contributions of downwind particulate matter and has been able to implement control technologies and modify operational procedures to reduce or eliminate such emissions.

SCS Tracer maintains a staff of professionals with thorough knowledge of state and federal regulations regarding air monitoring as well as the latest techniques and methods utilized. SCS Tracer can assist in the development of facility specific monitors as well as regional scale networks.

SCS Tracer Environmental

PM₁₀/PM_{2.5} Project Experience

Our experience includes design, build-out and operation of ambient monitoring programs, from single stations to multi-station networks. Examples of some of our project experience are provided below.

GRANITE CONSTRUCTION

Murrieta, CA

2009 - present

Client:

Mr. Gary Nolan

(760) 578-6654

SCS Tracer established and currently operates and maintains a network of particulate samplers surrounding a rock quarry in Fallbrook, CA. These samplers are configured for sampling PM₁₀. Once per quarter, the samplers are reconfigured for PM₄ sampling, which is accompanied by analysis for crystalline silica.

CALIFORNIA AIR RESOURCES BOARD

Sacramento, CA

1995 - present

Client:

Mr. Fernando Amador

(626) 575-6635

As part of an effort to assess air quality in the border region between California and Mexico, SCS Tracer Environmental has been contracted to develop ambient air and meteorological monitoring networks in the Tijuana and Mexicali areas. The project scope includes the identification of suitable locations, the movement of equipment across the border, installation, operation, maintenance and data reporting. SCS Tracer Environmental has also added parameters and instruments during the course of the program. This has included BAM 1020 monitors for both PM₁₀ and PM_{2.5}.

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

Whittier, CA

in progress

Client:

Mr. Vikram Reddy

(562) 908-4288 x2404

SCS Tracer Environmental is in the process of establishing and operating a particulate and meteorological monitoring network at the Mesquite Regional Landfill in Imperial county. SCS Tracer Environmental authored an extensive monitoring protocol for the landfill, which was accepted by the Imperial County APCD without revision. The network consists of three medium-volume samplers for PM₁₀ as well as one BAM-1020 unit for PM₁₀. These samplers have also been modified in order to accurately measure PM_{2.5} according to EPA protocol and reference methods. The sampling program is supported by a PSD-quality meteorological monitoring station consisting of wind speed, wind direction, and temperature.

SCS Tracer Environmental

Tetra Tech EC

Hunter's Point, CA

Client:

Mr. Andrew Gorman
(562) 908-4288 x2404

SCS Tracer Environmental provided air samplers, training, subcontracted laboratory services and data management for ambient air sampling in support of remediation activities at Hunter's Point Naval Shipyard. Sampling parameters include PM₁₀, TSP and metals, VOCs (TO-15), PCBs (TO-9), semi-volatile organics (TO-13) and dioxin.

Similar sampling programs have been conducted at San Diego Naval Base, Moffett Field, Long Beach Naval Station and Mare Island.

San Joaquin Valley APCD

Madera, CA

Client:

Mr. Jaime Contreras
(559) 230-5800

SCS Tracer Environmental has designed and installed a complete PSD quality air monitoring station for the SJVAPCD. All aspects of the installation including design, construction management, permitting, procurement of equipment, and equipment installation and verification were performed by SCS Tracer Environmental personnel.

Measurement Parameters include ozone, PM₁₀, PM_{2.5}, and a PSD-quality meteorological monitoring station consisting of wind speed, wind direction, and temperature

SCS Tracer Environmental

PM₁₀/PM_{2.5} Sampling Equipment

Equipment Type	Make	Model
Monitor: Real time PM ₁₀ /2.5 (Tape Monitor)	Thermo Anderson	FH 62
Monitor: PM _{2.5} Speciation (RAAS)	Anderson Instruments	400
Monitor: Real time PM ₁₀ /2.5 (Beta Attenuation Monitor)	Met One	1020
Monitor: Real Time Dust and Aerosol	Thermo Electron	pDR-1200
Sampler: PM ₁₀ /2.5 Medium Volume Sampler	BGI Inc.	PQ-100
Sampler: PM ₁₀ Hi-Volume Sampler	Sierra Anderson	1200
Sampler: PM ₁₀ Hi-Volume Sampler	Sierra Anderson	1200
Sampler: PM ₁₀ Hi-Volume Sampler	Tisch	TE-6070
Sampler: TSP Hi-Volume Sampler	Sierra Anderson	1200
Sampler: TSP Hi-Volume Sampler	Sierra Anderson	321-A
Sampler: TSP Hi-Volume Sampler	Tisch	TE-5000

ATTACHMENT E

References

REFERENCES

Following are references and brief descriptions of the associated projects. Additional references for SCS Tracer Environmental air monitoring projects are provided in **Attachment D**.

GRANITE CONSTRUCTION

*Murrieta, CA
2009 - present*

*Client:
Mr. Gary Nolan
(760) 578-6654*

SCS Tracer established and currently operates and maintains a network of particulate samplers surrounding a rock quarry in Fallbrook, CA. These samplers are configured for sampling PM₁₀. Once per quarter, the samplers are reconfigured for PM₄ sampling, which is accompanied by analysis for crystalline silica.

CITY OF BROOKFIELD

*Brookfield, Wisconsin
2011 - present*

*Client:
Ms. Jennifer Stilling
(262) 787-3543*

SCS BT Squared was contracted by the City of Brookfield to perform environmental investigations at two former City of Brookfield fire station properties. The focus of the work is determining the degree and extent of soil and groundwater contamination that resulted from leaking underground waste oil tanks. The next phase of work for the properties will include cleanup and case closure reporting. The work is regulated under the Wisconsin Department of Safety and Professional Services and funded in part by the State Petroleum Environmental Cleanup Fund Award.

LYCON INC.

*Several sites in Wisconsin
2004 to present*

*Client
Mr. Patrick Lyons
(608) 754-7701*

SCS has provided a variety of services to LYCON at their surface mining facilities in southern Wisconsin including geologic investigations for quarry expansions, mine reclamation plans, Spill Prevention, Control and Countermeasures (SPCC) Plans, Storm Water Pollution Prevention (SWPP) Plans, and investigation and remediation of petroleum releases from underground storage tanks.

CITY OF MADISON

*Madison, Wisconsin
2011 to present*

Client

*Ms. Brynn Bemis
(608) 267-1986*

The City of Madison purchased several properties from a car dealership on East Washington Avenue to help create conditions for redevelopment along a key gateway to the downtown Madison. SCS BT Squared was hired by the City to perform Phase 1 and 2 Environmental Site Assessments. SCS also provided remediation planning services that helped the City obtain over \$1,000,000 in brownfield grants from the Wisconsin Department of Natural Resources and the USEPA.

CUDAHY GATEWAY REALTY

*Cudahy, Wisconsin
2001 - 2009*

Client:

*Mr. Michael Keil
(608) 788-3355*

SCS BT Squared utilized an approach to fill area compaction called dynamic compaction, so that a self-storage facility could be constructed on a vacant property in Cudahy. SCS BT Squared provided construction oversight of the dynamic compaction as well as the site development work that followed. The dynamic compaction included SCS BT Squared conducting seismic monitoring at several different mobile locations and corresponding with local residents to ease their concerns with ground vibrations resulting from the dynamic compaction.

CITY OF PRAIRIE DU CHIEN

*Prairie du Chien, Wisconsin
2009 to present*

Client

*Garth Frable
(563) 880-1788*

SCS helps the City implement a \$200,000 USEPA Hazardous Substance Assessment Grant. Under the grant, SCS is assisting the City in the selection and assessment of a variety of properties to determine the potential for redevelopment. SCS works with the City leaders and community to identify sites, works with the City to gain access to sites, prepares EPA required documents including Quality Assurance Project Plans (QAPPs), conducts Phase 1 and 2 site assessments, and leads and participates in community outreach through regular stakeholder meetings.

ATTACHMENT F

Resumes

BETTY J. SOCHA, PH D, PG

Education

Ph.D., Geology, University of Wisconsin, Madison, 2007

M.S., Geology, University of Wisconsin, Madison, 1984

M.S., Environmental Monitoring, University of Wisconsin, Madison, 1984

B.S., Earth Science, University of Wisconsin, River Falls, 1975

Professional Licenses

Professional Geologist, Wisconsin

Professional Affiliations

Geological Society of America

American Geophysical Union

Wisconsin Groundwater Association (Secretary, 2011-2013)

Professional Experience

Ms. Socha is a hydrogeologist with expertise and extensive experience in soil and groundwater investigation and remediation, environmental site assessments, field investigation methods, geologic mapping, and interpretation of sedimentology and stratigraphy of glacial and non-glacial deposits for environmental and engineering projects. Since 1985, she has designed and implemented geologic and hydrogeologic investigations at sites in Wisconsin, Minnesota, North Dakota, Illinois, Ohio, and Indiana, including several sites with fractured bedrock and multiple aquifer systems.

Soil and Groundwater Remediation

Designed and implemented a groundwater monitoring program for a former 11-acre municipal solid waste landfill in Wisconsin following documentation of waste removal and subwaste soil sampling. Used natural attenuation monitoring to demonstrate stability of chlorinated VOC plume and obtained case closure under NR 700, the first in Wisconsin for a relocated landfill.

Designed and implemented hydrogeologic investigations of complex sites (fractured bedrock and multiple aquifer systems) utilizing aquifer pumping tests, packer tests, and rock coring programs. Supervised the installation of more than 100 monitoring wells and piezometers (some to depths of greater than 200 feet) in bedrock, using mud and air rotary, and air hammer drilling methods.

Managed a chlorinated solvent remediation project at a site in Madison, Wisconsin. Project included ozone-injection pilot tests. Designed and coordinated the site investigation which identified source areas, delineated plume migration along utility corridors, determined the horizontal and vertical extent of the plume, and dealt with off-site access issues.

Oversaw the investigation of a petroleum release in southern Wisconsin. Designed the groundwater investigation to identify the extent of groundwater contamination in till and fractured dolomite. Evaluated alternatives for remediating the plume which migrated in the seemingly upgradient direction along the fractured top of bedrock, extended laterally 600 feet x 150 feet and vertically to 30 feet below the water table, and had up to 15 feet of free product.

Managed an investigation of chlorinated solvent contamination in the sand and gravel, and fractured dolomite aquifers at an asphalt plant in Minnesota. Designed an investigation to identify sources for the plume (including possible releases from solvent recycling and waste disposal activities on the property), which extended over an area of more than 300 acres.

Brownfield Redevelopment Services

Acted as project manager for Environmental Site Assessments (ESAs) including ASTM Standard Phase 1 ESA (E 1527-05) and under 2005 EPA AAI Rule.

Coordinated Phase 2 ESAs, including evaluations of soil, groundwater, waste, building materials, and site activities. Performed site investigations to define the extent of known contamination for regulatory and cost liability assessment purposes. Estimated remediation costs and conducted full service remediation through to final closure.

Solid Waste Management

Conducted geologic and hydrogeologic investigations for 14 Wisconsin landfill sites under Wisconsin Administrative Code NR 140 and NR 500 rules. Projects included landfill site selection, clay borrow identification and investigation, groundwater monitoring, contamination assessments, initial site reports, and eight feasibility studies.

Acted as hydrogeologist and/or project manager for Wisconsin, Minnesota, North Dakota, and Illinois landfill projects including landfill site selection, clay borrow identification and investigation, alternative geotechnical programs, groundwater monitoring, contamination assessments, initial site reports, and feasibility studies.

Conducted hydrogeologic evaluations of existing and proposed municipal and industrial solid waste containment facilities in Minnesota, North Dakota, and Illinois.

Designed alternatives to Wisconsin Administrative Code NR 507 and NR 512 requirements for landfill feasibility studies. For a site in central Wisconsin, the alternative focused on shallow groundwater and bedrock. For a site in northwestern Wisconsin, the alternative focused on drilling and sampling methods, because of difficult drilling conditions and complex glacial geology and groundwater flow patterns. Both programs utilized existing site data to reduce drilling and testing costs.

Performed as hydrogeologist for RCRA facility hydrogeologic investigations including RCRA Groundwater Assessment/Closure Monitoring Plans and RCRA Facility Investigation Workplans for industrial landfills in Ohio and Indiana.

Managed quarterly groundwater, leachate, and gas monitoring programs at landfill sites in Wisconsin and Minnesota.

Identified and evaluated clay deposits for landfill liner and final cover material for landfills in Wisconsin, Minnesota, and North Dakota.

Prepared an evaluation of groundwater quality and flow in a complex hydrogeologic setting consisting of low permeability bedrock, former subsurface mining, and coal bed aquifers for a North Dakota landfill.

Wisconsin Department of Transportation

Managed more than 45 WisDOT Work Orders for Phase 2 to 4 site investigations, hazardous materials characterization, preparation of special provisions, soil excavation documentation, underground tank removal, and construction emergencies.

Mining and Related Projects

Conducted geotechnical and hydrogeologic investigations including monitoring well installation, geotechnical sampling of bedrock and for mine design, and conducting multiple well aquifer pumping tests in igneous/metamorphic rock, in the metallic ore body, and surficial sediments, for Kennecott's open-pit mine in a copper sulfide deposit in northern Wisconsin.

Prepared geologic and hydrogeologic sections of the Environmental Impact Report and Mine Permit Application for Kennecott's open-pit mine in a copper sulfide deposit in northern Wisconsin.

Served as head geologist and field coordinator for installation of over 50 monitoring wells to monitor a complex hydrogeologic setting consisting of low permeability strata, mining spoils and coal bed aquifers in the ash disposal area of the 1100 mw generating station at Coal Creek, North Dakota.

Acted as project hydrogeologist for evaluation of sites for potential development as low-level radioactive waste repositories in Minnesota. The project required interpretation of complex geology settings, conducting comprehensive, detailed hydrogeologic field investigations, and compilation and interpretation of extensive geotechnical data.

Provided geologic and hydrogeologic review of the U.S. Dept. of Energy report designating a portion of the Wolf River Batholith in northern Wisconsin as a potentially acceptable site for a high level nuclear waste repository.

Publications and Presentations

The Quaternary geology of Calumet and Manitowoc Counties, Wisconsin, in press, with Mickelson, D.M., Wisconsin Geological and Natural History Survey Bulletin.

Hydrogeologic characterization of fractured dolomite for regulatory monitoring, 2011, with Clark, S., and Gregg, A., Geological Society of America, Abstracts with Programs, Annual Meeting.

The Hayton Formation, in Lexicon of Pleistocene Stratigraphic Units of Wisconsin, 2011, edited by Mickelson, D.M., Clayton, Lee, Baker, R.W., Mode, W.N., and Schneider, A.F., Wisconsin Geological and Natural History Survey Technical Report 1, p.88-95.

Evidence of tundra plants overridden by ice approximately 16,000 cal yr BP, Sherwood, Wisconsin, Calumet County, Stop 8, 2007, 2007, in Late-Glacial History of East-Central Wisconsin, Guide Book for the 53rd Midwest Friends of the Pleistocene Field Conference, edited by Hooyer, T.S., Wisconsin Geological and Natural History Survey Open-File Report 2007-01, p.49-52.

Late-glacial ice advances and vegetation changes in east-central Wisconsin, 2007, with Mickelson, D.M., Hooyer, T.S., Winguth, C., in Late-Glacial History of East-Central Wisconsin, Guide Book for the 53rd Midwest Friends of the Pleistocene Field Conference, edited by Hooyer, T.S., Wisconsin Geological and Natural History Survey Open-File Report 2007-01, p.72-87.

The origin and depositional environment of the Hayton Formation - a newly defined lithostratigraphic unit in east central Wisconsin, 2005, with Mickelson, D.M., Geological Society of America, Abstracts with Programs, North-Central Section.

Glacial advance, retreat, and the record of late glacial climate change in northeastern Wisconsin, 2005, with Mickelson, D.M., Maher, L.J. Jr., Winguth, C., Hooyer, T., S, Clayton, Lee, Attig, J.W., and Mode, W.N., Geological Society of America, Abstracts with Programs, North-Central Section.

Sedimentological features of late Wisconsin basal till, 2004, with Mickelson, D.M., Geological Society of America, Abstracts with Programs, Annual Meeting.

Preliminary Quaternary geology of Manitowoc and Calumet Counties, Wisconsin, 2004, with Mickelson, D.M., 1:100,000-scale map, Wisconsin Geological and Natural History Survey.

Ice surface profiles and bed conditions of the Green Bay Lobe from 13,000 to 11,000 14C-Years B.P., 1999, with Colgan, P.M., and Mickelson, D.M., Geological Society of America Special Paper 337, p. 151-158.

Contrasting glacial record between two formations in northeastern Wisconsin, 1999, with Principato, S.M., Mickelson, D.M., and Laabs, B.J., Geological Society of America, Abstracts with Programs, Annual Meeting.

Estimates of ice surface slopes of the Green Bay Lobe 13-11k BP, 1997, with Jackson, B.M., Colgan, P.M., and Mickelson, D.M., Abstracts with Program, Geological Society of America, North-Central Section.

Glacigenic Diamicton of Late Wisconsinan Age at Wedron, Illinois, 1985, with Johnson, W.H., and Hansel, A.K., Abstracts with Program, Geological Society of America, North-Central Section.

Depositional environments and correlation problems of the Wedron Formation (Wisconsinan) in northeastern Illinois, 1985, with Johnson, W.H. and Hansel, A.K., Geological Society of America, North-Central Section, field-trip guidebook, 91 p.

Glacigenic diamicton in the Baraboo area, Wisconsin, 1984, Geological Society of America, Abstracts with Programs, North-Central Section.

Fracture trace hydrogeology in crystalline rocks with hazardous waste disposal implications, 1984, with Hennings, R., American Water Resources Association, Wisconsin Section, Abstracts with Program.

Fracture-trace analysis for water well site locations in Precambrian igneous and metamorphic rock in central Wisconsin, 1983, Wisconsin Geological and Natural History Survey Miscellaneous Paper 83-5, 37 p.

MARK R. HUBER, PE

Education

B.S., Civil Engineering, Iowa State University, 1989

Professional Licenses

Professional Engineer, Wisconsin and Iowa

Professional Experience

Mr. Huber has 22 years of consulting experience in civil and environmental engineering. He specializes in urban redevelopment projects with a technical expertise in brownfield redevelopment, civil site design, and stormwater management. With a dual background in civil and environmental engineering, Mark is able to take urban redevelopment projects from initial site assessment through construction. Mark is adept at explaining complex issues in easy to understand language. His experience working on a variety of complex urban projects allows him to quickly identify key issues and develop smart, simple solutions that save clients time and money. Mark is an excellent communicator, which helps him bridge the gap between client goals and regulatory requirements. Mark is always excited about helping clients in creative ways with responsive customer service.

Brownfield Redevelopment

Served as project manager for a U.S. Environmental Protection Agency brownfield assessment grant project in the City of Prairie du Chien, Wisconsin. Project involved working with the City to identify potential brownfield redevelopment properties, Phase 1 and 2 Environmental Site Assessments, remedial action planning, regulatory communications, and community outreach.

Directed project for an ownership transfer of a former dairy property in Madison, Wisconsin. Project involved developing a Phase 2 environmental site assessment, preliminary civil engineering site design evaluation, and exploration of brownfield redevelopment grant funds.

Managed the installation of a parking lot over the former landfill Meyer Place Fill Area in Cudahy, Wisconsin. Project involved site investigation, requesting an exemption from WDNR to build on a landfill, capping and vapor barrier design, and construction assistance.

Coordinated and served as project manager for the site investigation and remediation of an abandoned industrial facility at the Cudahy Business Park in Cudahy, Wisconsin. Remediation included removal and disposal of petroleum-impacted soils and PCB-impacted concrete. Groundwater remediation included site capping and natural attenuation of chlorinated solvents.

Oversaw construction of a mini warehouse facility on a former municipal landfill for Cudahy Self Storage in Cudahy, Wisconsin. The project involved environmental and geotechnical assessment, dynamic compaction of the waste, site grading, methane gas management, stormwater management, erosion control, utility installation, and pavement design.

Performed site investigation and remediation of a former landfill. The site was redeveloped as the Department of Revenue building in Madison, Wisconsin. A soil management plan was developed to provide specific guidance on how to manage impacted soils encountered during redevelopment of the site.

Applied for and received a \$200,000 grant from the USEPA to address brownfields in the City of Waukegan, Illinois. Work under the grant includes creating a geographical information system of the brownfields, performing Phase 1 and Phase 2 Environmental Site Assessment on selected properties, and preparing remedial action plans.

Designed a retail/residential mixed-use development on a former manufacturing facility in Kenosha, Wisconsin. Engineering work included contaminated material handling, site grading, stormwater management, utilities, geotechnical investigation, and pavement design.

Coordinated design of an office park development on a former brownfield in Madison, Wisconsin. Engineering work included contaminated material handling, site grading, stormwater management, utilities, and geotechnical investigation.

Served as senior engineer for redevelopment of an oil terminal into a joist manufacturing facility, 84 Lumber, in McFarland, Wisconsin. Project included remediation design, material management, regulatory negotiations, and brownfield grant award.

Involved in design of an office park development on a former brownfield located at 660 John Nolen Drive in Madison, Wisconsin. Engineering work included brownfield grant award, site closure, contaminated material handling, site grading, stormwater management, utilities, and geotechnical investigation.

Soil and Groundwater Remediation

Served as project manager for the design and construction of a soil and groundwater remediation system for a TCE/PCE spill and a chlorinated solvent remediation at a manufacturing facility in Los Angeles, California. Project involved preparing design drawings, specifications, and bidding documents for a groundwater extraction/treatment system and a soil venting system. Remediation construction activities were carefully coordinated with the redevelopment of the site.

Prepared design documents for expansion of a groundwater remediation system for a chlorinated solvent remediation at a manufacturing facility in Wisconsin. Project involved preparation of design drawings, specifications, and bidding documents for the expansion of a groundwater extraction/treatment system for a TCE spill.

Worked on over 15 projects associated with petroleum site investigations and remediations at various petroleum remediation sites in Wisconsin and Illinois. Projects involved preparation of site investigation reports; remedial action plans; design documents; remediation construction; and operation, maintenance and monitoring of remediation systems.

Involved in the design of a treatment system to remove agricultural chemicals from groundwater. The treatment system included bag filtration and carbon adsorption at Cottage Grove Cooperative in Cottage Grove, Wisconsin. The project also included the design of a 3,000-foot gravity sewer in order to discharge the treated water to the nearest surface water body.

Coordinated the excavation and landspreading of over 12,000 cubic yards of agricultural-contaminated soil for the Danco-Prairie Cooperative in DeForest, Wisconsin. The project also included the design, construction, and operation of a groundwater extraction and treatment system. The cleanup of this brownfield site paved the way for the construction of the Village of DeForest public safety building. Soil and groundwater remediation activities were carefully coordinated with the new building construction.

Solid Waste Management

Oversaw the removal and disposal of approximately 1,000,000 tons of thorium-contaminated soil from an abandoned manufacturing facility located in residential area at the Kerr-McGee Rare Earth Facility in West Chicago, Illinois. The project involved design of a rail load-out facility, soil screening facility, on-site wastewater treatment facility, building decommissioning plans, utility relocation, and excavation plans.

Directed the removal of over 20,000 buried drums containing a mixture of hazardous wastes, construction of a vertical cutoff wall, landfill cover, groundwater collection trench, and groundwater treatment system at the Fort Wayne Reduction Facility in Fort Wayne, Indiana. This project was completed under CERCLA regulations.

Coordinated decommissioning of a 40-acre radioactive and hazardous waste landfill at the Hartley and Hartley Landfill in Bay County, Michigan. The project included the design of an interim groundwater treatment system, which included metals precipitation, air stripping, granular activated carbon, and sand filtration. The project also involved final cover maintenance and evaluation of final cover improvements. The project was conducted in accordance with Nuclear Regulatory Commission regulations.

Managed a CERCLA project, which included the design and operation of a groundwater treatment system for two springs adjacent to a closed industrial landfill at Tri-City Industrial Disposal Facility in Bullit County, Kentucky. Special structures were designed to intercept water discharging from the springs. The spring water was treated with granular activated carbon before it was returned to the watershed.

Involved with a removal action to remediate a closed landfill containing various laboratory wastes at Ames Laboratory Chemical Disposal Site in Ames, Iowa. A Removal Site Evaluation, Engineering Evaluation/ Cost Analysis (EE/CA), and design documents were prepared to support the removal action.

Evaluated the design and installation of a final cover and leachate extraction system in order to meet RCRA requirements at the US Ecology Hazardous Waste Management Facility in Sheffield, Illinois.

Prepared construction drawings, specifications, and bidding documents for the construction of a composite liner system at the Superior Emerald Park Landfill in Muskego, Wisconsin. The liner consisted of a gradient control system, clay, geomembrane, and a leachate collection system. The project also included construction observation and preparation of a construction documentation report.

Coordinated the construction of a final cover system and gas collection system at Superior Valley Meadows Landfill in Fort Atkinson, Wisconsin. The cover consisted of a clay cap, geomembrane, drainage layer, rooting zone, and topsoil. A construction documentation report was also prepared.

Evaluated two existing sluice ponds in Iowa and Wisconsin to determine if the pond capacities could be reduced to facilitate expansion of on-site coal storage areas. Hydraulic and particle settling calculations were used to demonstrate to the state agencies that the ponds would operate as designed, even if a portion of the ponds were filled. Both projects were approved by the state agencies.

Prepared a feasibility report for a horizontal expansion of Superior Cranberry Creek Landfill, a municipal solid waste landfill, in Wisconsin Rapids, Wisconsin. The landfill expansion is located near surface water bodies and wetlands, which involved navigability issues, surface water balancing, and practicable alternative wetland analysis.

Performed design and construction oversight at Superior Cranberry Creek Landfill, a rail solid waste transfer station in Wisconsin Rapids, Wisconsin. An elevated platform was constructed adjacent to a rail spur to facilitate transfer of waste from rail cars to a landfill.

Coordinated installation of eight gas extraction wells and lateral and header piping at Superior Cranberry Creek Landfill in Wisconsin Rapids, Wisconsin.

Involved with the design of a leachate treatment system to remove PCBs at the Waste Management Metro Landfill in Franklin, Wisconsin. The treatment system consisted of clarification, sludge dewatering, granular media filtration, bag filtration, and carbon adsorption.

Managed a project that involved design and construction of a granular composite liner for an ash disposal facility in Wisconsin. Work included preparation of drawings, specifications, bidding documents, and construction documentation.

Evaluated alternative methods for disposing of ash generated from a coal power generating facility in Iowa. Alternatives included filling a ravine, expanding an existing ash landfill, filling a wetland, and expanding an existing ash sluice pond. Project involved evaluating alternatives and developing detailed cost estimates.

Water Resources

Evaluated existing stormwater management infrastructure at the Inlet Oaks Subdivision in the Town of Delavan, Wisconsin, which experienced surface and basement flooding during heavy rainfall events. Project included data collection and analysis, stormwater modeling, developing alternative solutions, cost estimating, and public meetings.

Studied localized flooding problems for several urban drainage basins for the Village of Mount Prospect, Illinois. The studies involved data collection, detailed stormwater modeling, and alternative evaluation. Results of the studies were presented in detailed reports, which included detailed cost estimates and recommendations.

Conducted an extensive study of the Village of Wilmette, Illinois' existing storm sewer system to address widespread flooding throughout the Village. The study involved data collection, stormwater modeling, and alternative analysis. The study results and recommendations to improve stormwater management were presented in a detailed report.

Completed the design of a detention basin for a retirement facility called Sherman Avenue Apartments in Madison, Wisconsin. The detention basin stored stormwater before it was discharged to the City storm sewer system, which was designed to prevent flooding of downstream properties.

Designed an 8,000-gallon underground oil/water separator for MATES in Fort McCoy, Wisconsin. The oil/water separator was designed to remove oil from stormwater that might be accidentally spilled at the facility. It was installed downstream of an existing detention basin that was used to store stormwater before it was treated by the oil/water separator.

Served as project manager for the development of a stormwater management and erosion control plan for LYCON, Inc., a ready mix plant expansion in Madison, Wisconsin. Project involved preparation of stormwater management calculations and plans required for City approval of the proposed expansion.

Acted as project manager for a project for a wetland delineation and environmental corridor assessment for a commercial property transaction in Madison, Wisconsin. The project involved field delineation of a wetland and research of state and federal agency files.

General Civil Engineering

Served as project manager for the Edgewater Hotel Redevelopment, a high profile hotel redevelopment adjacent to Lake Mendota in Madison, Wisconsin. The project involved surveying, preparation of civil site design drawings, and preparation of stormwater management calculations to support the hotel redevelopment bid.

Performed project management duties for the early development of a large mail distribution center. The project involved site grading, stormwater management, geotechnical investigation, local approval reviews, and project scheduling. Civil engineering due diligence lead to a successful property transaction for the United States Postal Service Distribution Center in Oak Creek, Wisconsin.

Designed containment systems to capture oil from transformers in the event of catastrophic failure without detaining routine rainfall events for substations at various sites in Wisconsin. The projects involved site grading, stormwater management, erosion control, and oil containment system design.

Completed the design of a 20-acre single-family housing development in Fitchburg, Wisconsin. The project included site layout and grading, roadway design, utility design, and stormwater management.

Oversaw the design and construction of aboveground storage tanks for fueling systems at three Wisconsin correctional institutions for the Wisconsin Department of Administration. The projects also involved removal of underground storage tanks and preparation of spill prevention, control, and countermeasure plans.

Completed the design and bidding of over 10,000 feet of stormwater relief sewers for several sites within the Village of Mount Prospect, Illinois. Design work involved the sizing of pipes and inlets, preparation of plan and profile sheets, junction chamber/manhole design, and specification preparation.

Involved in the design and bidding of approximately 1,000 feet of watermain for the Village of Addison, Illinois. Design work involved the preparation of plan and profile sheets, including specifying fire hydrants, valves, service laterals, and other related appurtenances.

Conducted extensive investigation of several sanitary sewer systems to identify possible inflow/infiltration in various Chicago Area communities. The projects involved flow monitoring, manhole inspections, smoke testing, dye testing, building inspections, sewer video taping, and report preparation. In addition to data presentation, the reports included recommendation for reducing inflow/infiltration.

Completed the design of a detention basin for a retirement facility called Sherman Avenue Apartments in Madison, Wisconsin. The detention basin stored stormwater before it was discharged to the City storm sewer system, which was designed to prevent flooding of downstream properties.

Coordinated construction of a mini warehouse facility on a former municipal landfill in Cudahy, Wisconsin. The project involved environmental and geotechnical assessment, dynamic compaction of the waste, site grading, methane gas management, stormwater management, erosion control, utility installation, and pavement design.

Electric Utilities

Obtained environmental permitting for construction of a new cogeneration facility in Wisconsin. The project also included environmental assessment of the property, stormwater management, and related water resource and dewatering activities.

Received Iowa Department of Natural Resources approval to use fly ash as a micronutrient on corn and soybean fields. Also coordinated all pilot testing and permitting activities.

ROBERT W. TAYLOR

**Professor Emeritus
University of Wisconsin - Milwaukee**

**Home Address:
1041 Westport Dr
Aprt 138
Port Washington, WI 53074**

I. Education

1. Ph.D. The Pennsylvania State University, 1972
University Park, PA.
Geophysics--degree,
2. M.S. The Pennsylvania State University, 1967
University Park, PA.
Underwater Acoustics--degree,
3. B.S. The University of Michigan,
Ann Arbor, MI.
Physics--degree,

II. Professional Experience

- | | |
|--------------|--|
| 1981 to 2001 | Associate Professor,
Department of Geosciences,
UW-Milwaukee |
| 1973 to 1980 | Assistant Professor,
Department of Geosciences,
UW-Milwaukee |
| 1972 to 1973 | Postdoctrate Research Associate, NOAA,
National Earthquake InformationCender,
Boulder, Colorado. |
| 1963 to 1965 | Peace Corps Volunteer,
Math and Physics Teacher
Ethiopia, Africa. |

Relevant Technical Activities

1. Consultant to Ruckert and Mielke on the monitoring of ground vibrations generated by quarry operations in the city of Franklin, Wisconsin, 2002 to 2005.
2. Consultant to Fromm Applied Technology for a project related to the measurement and analysis of ground vibrations radiated by loaded railroad trains passing through urban areas, 2004.
3. Ground Vibrations Radiated by VIBROSEIS™ System Vibrators, Report to CONOCO, Inc., 1983, 115 pp. The report was for distribution to all VIBROSEIS operators as required by a CONOCO funded research grant. The grant required field measurements throughout Texas and Oklahoma.
4. Projected Ground Vibration Levels for the New Forging Site in Moran, Kansas, Report to Klein Tool Co., Chicago, Ill, 42P, 1982. This study required ground vibration field measurements in Kansas.
5. Ground Vibrations Radiated From Forging Hammers, three volume report to the Forging Industry Educational and Research Foundation, 1980. This three year study required the measurement of ground vibrations radiated by forging hammers in New York state, the Midwest and major portions of the South.

IV. Publications

0. Taylor, R. W. and T. Davis, 1998, An Application of Electrical Anisotropy in Hydrogeological Modeling, Proceeding of the Symposium on the Application of Geophysics to Environmental and Engineering Problems, 967-973.
1. Taylor, R.W., and J. Jansen, 1996, Determining Fracture Geometry From Azimuthal Resistivity Data, Proceedings of the Symposium on the Application of Geophysics to Engineering and Environmental Problems, 41-50.
2. Jansen, J., and R. W. Taylor, 1995, Using MODFLOW as an Interpretation Tool for Several Geophysical Methods, Proceedings of the Symposium on the Application of Geophysics to Engineering and Environmental Problems, Environmental and Engineering Geophysical Society, pp 699-712.
3. Taylor, R. W., 1992, Continuous Resistivity Surveys Along the Lake Michigan and Green Bay Coastlines of Wisconsin, Proceedings of the Symposium on the Application of Geophysics to Engineering and Environmental Problems, Environmental and Engineering Geophysical Society, pp 129-135.

IV. Publications (Cont.)

4. Cherkauer, D. S., and R.W. Taylor, 1990, The Spatially Continuous Determination of Groundwater Flow to Surface Water Bodies: Application to the Connecting Channels Between Lakes Huron and Erie, *Journal of Hydrology*, v114, pp 349-369.
5. Taylor, R.W., and A. H. Fleming, 1988, Characterizing Jointed Systems by Azimuthal Resistivity Surveys, *Ground Water*, v26, 4, pp 464-474.
6. Taylor, R.W. and J. Jansen, 1988, Azimuthal Resistivity to Delineate Zones of High Secondary Porosity in Fracture Controlled Aquifers, *Proceedings of the National Outdoor Action Conference on Aquifer Restoration, Ground Water Monitoring and Geophysical Methods*, VI, 153-170.
7. Cherkauer, D.S. and R.W. Taylor, 1988, Geophysically Determined Ground Water Flow Into the Channels Connecting Lakes Huron and Erie. *Proceedings of the National Outdoor Action Conference on Aquifer Restoration, Ground Water Monitoring and Geophysical Methods*, V2, 779-800.
8. Cherkauer, D.S., R. W. Taylor, K. R. Bradbury, 1987, Relation of Lake Bed Leakance to Geoelectric Properties, *Ground Water*, V-25, No. 2, 141-151.
9. Montgomery, R.J., D. A. Wierman and R.W. Taylor, 1985, Use of Geophysical Well Logging to Determine the Internal Structure of a Large Landfill, NWWA, *Proceedings, Surface and Borehole Geophysical Methods in Ground Water Investigations*, 377-386
10. Taylor, R.W., 1985, An Automated D.C. Resistivity System, NWWA, *Proceedings, Surface and Borehole Geophysical Methods in Ground Water Investigations*, Feb., 12-23.
11. Taylor, R.W. and D.S. Cherkauer, 1984, Application of Combined Seismic and Electrical Measurements to the Determination of the Hydraulic Conductivity of a Lake Bed, *Ground Water Monitoring Reviews*, V4, No. 4, 78-85.
12. Bradbury, K.R. and R.W. Taylor, 1984, Determination of the Hydrogeologic Properties of Lakebeds Using Offshore Geophysical Surveys, *Ground Water*, Vol 22, No. 6, 690-695.
13. Kean, W.F. and R.W. Taylor, 1984, Electrical Conductivity, Clay Content and Porosity of Unconsolidated Sediments, *Proceedings of Surface and Borehole Geophysical Methods in Ground Water Investigations*, 1-17.
14. Taylor, R.W., 1984, The Determination of Joint Orientation and Porosity from Azimuthal Resistivity Measurements, *Proceedings of Surface Borehole Geophysical Methods in Ground Water Investigations*, 37-51.

IV. Publications (Cont.)

15. Mayer, P.L. and R.W. Taylor, Feb., 1982, Discussion of Geoelectric Soundings for Predicting Aquifer Properties, Ground Water, Vol 20, No. 1, 84-87.
16. Taylor, R.W., 1981, International Science and Engineering Fair Committee, Geophysics, Vol 46, 1791.
17. Taylor, R.W., Flexural Wave Measurements from Single Sensor Recordings, Journal of Glaciology, Vol. 22, No. 86, 171-175.
18. Taylor, R.W., J.P. Kovach and N.P. Lasca, 1976, Automated Seismic Monitoring System for Lake Michigan Ice Studies, Journal of Glaciology, Vol. 17, no. 76, 347-350.
19. Taylor, R.W., and R.J. Greenfield, 1973, The Effect of Glacial Cross-Section on Vertical Resistivity Depth Sounding, Journal of Glaciology, vol. 12, no. 66, 375-382.

V. PAST Membership in Professional Societies

1. Society of Profession Well Log Analysis
2. The Society of Exploration Geophysicists
3. Environmental and Engineering Geophysical Society
4. European Society of Exploration Geophysicist
5. Seismological Society of America

SCS Tracer Environmental

Paul W. Schafer

B.S. Chemical Engineering

University of California, Santa Barbara

Mr. Paul Schafer is a Project Manager at SCS Tracer Environmental. During his technical career at Tracer, Mr. Schafer has assumed key roles on several nationally significant monitoring efforts, including Program Manager of measurement services involving waste handling and soils remediation.

Mr. Schafer has in-depth experience in interfacing with regulatory agencies regarding the performance of monitoring systems, source emission tests, and continuous process monitors which are operated for our clientele. He has had direct working experience with the South Coast AQMD, Santa Barbara APCD, San Diego County APCD, California Air Resources Board, EPA Region IX, and the General Services Administration regarding monitoring programs and air quality impact assessments.

Paul has developed and operated SCS Tracer Environmental's mold-testing program for residential and commercial clients. Paul has been instrumental in developing a cost-effective technique as well as marketing this service.

Mr. Schafer offers decisive management skills, which contribute to the success of monitoring programs under his purview. Cost control management and defensible technical performance are primary goals integral to all long term monitoring programs managed by Mr. Schafer. Paul has developed close business relationships with manufacturers and suppliers in the ambient air quality monitoring field.

Prior to joining SCS Tracer Environmental, Mr. Schafer worked at a specialty silicone research and development company while earning his degree at the University of California, Santa Barbara. He was responsible for the formulation of new products to attain specific mechanical properties before and after the materials vulcanization. He also tested the materials mechanical, rheological and chemical properties. Paul developed several products with extreme mechanical properties that are now sold by his previous company. Prior to this, he worked as a research assistant at the Ocean Engineering lab at UCSB. Here he designed, constructed, and maintained a tantalum oxide wave wire array. These wave wires are used as wave height indicators in a state of the art wave pool. The array was designed for maximum data collection capabilities, accuracy, precision, and durability.

Paul has worked on and managed several projects during his employment with Tracer, which include the following:

California Air Resource Board/U.S. EPA - Ambient Monitoring Program for Cities Along the California/Mexico Border. Program Manager for a 12 station monitoring network which measured urban baseline impacts for Tijuana and Mexicali, Baja California. Specific tasks include technician management, logistical planning, data review, equipment repairs, and QA/QC oversight. Each network supported criteria pollutant monitoring as well and particulates (PM₁₀), VOCs (TO-14) and air toxics (aldehydes, metals).

SCS Tracer Environmental

Clean Harbors, Inc. - Westmoreland CA. Paul Schafer is the Project Manager for all field work associated with the operation of a network of organic and inorganic samplers at a Class I TSDf in California's Imperial Valley. The work includes preparing all samplers for scheduled sampling runs, collection of all samples and data reporting. Tracer is also responsible for the operation and maintenance of a meteorological monitor located on site. All work is performed within the guidelines of a restrictive QA/QC Plan.

County Sanitation District of Los Angeles County – Imperial County. Paul Schafer is the Project Manager for an Air Monitoring project at a to be constructed landfill in Imperial County. Tracer is in the process of establishing and operating a particulate and meteorological monitoring network at the Mesquite Regional Landfill in Imperial County. Paul has authored the projects QA/QC program for submittal to the Imperial County APCD. The network consists of three medium-volume samplers as well as one BAM-1020 unit for PM₁₀. The sampling program is supported by PSD-quality meteorological monitoring equipment consisting of wind speed, wind direction, pressure and temperature.

Tetra Tech - Foster Wheeler Environmental – Santa Ana. Paul Schafer is the Project Manager for several air toxics monitoring programs that are in place to support remediation activities at various US Navy facilities. In this capacity he has managed the provision of air samplers, training, subcontracted laboratory services and data management services. He also constructed several project specific databases for data organization, calculations and comparisons to established benchmarks. Sampling methodologies include EPA methods such as TO-4, TO-13 and TO-14, NIOSH methods and OSHA methods.

B. Braun Medical Supply Manufacturer – Los Angeles. Paul Schafer designed and implemented a continuous emissions monitoring system for a manufacturing process at the B. Braun facility in the Los Angeles region. Mr. Schafer not only designed and installed the CEMS, but supervises routine RATA and source testing conducted by third parties on the system for regulatory compliance.

Technical Publications, Papers, and Selected Reports:

Mr. Schafer has written numerous reports, papers, and presentations. Presented below is a sampling of such documents.

Schafer, Paul W., et. al. "PSD Monitoring Plan – West Campus" SCS Tracer Environmental Report to Santa Barbara County APCD, January, 2010.

Schafer, Paul W., et. al. "Quality Assurance/Quality Control Program Manual – West Campus/Ellwood Odor" SCS Tracer Environmental Report to Santa Barbara County APCD, February, 2010.

Schafer, Paul W., et. al. "Carpenteria Meteorological Monitoring Site - Quality Assurance/Quality Control Program Manual" SCS Tracer Environmental Report to Santa Barbara County APCD, January, 2009.

SCS Tracer Environmental

Schafer, Paul W., et. al. "Quality Assurance/Quality Control Program Manual – Lompoc HS&P/Lompoc Odor/Paradise Rd" SCS Tracer Environmental Report to Santa Barbara County APCD, October, 2008.

Schafer, Paul W., et. al. "Quality Assurance/Quality Control Program Manual – Carpenteria Monitoring Site" SCS Tracer Environmental Report to Santa Barbara County APCD, October, 2008.

Schafer, Paul W., et. al. "Meteorological Monitoring Plan – Carpenteria Gas Plant" SCS Tracer Environmental Report to Santa Barbara County APCD, October, 2008.

Schafer, Paul W., et. al. "PSD Monitoring Plan – Lompoc Oil and Gas Plant – HS&P Monitoring Plan" SCS Tracer Environmental Report to Santa Barbara County APCD, September, 2008.

Schafer, Paul W., et. al. "PSD Monitoring Plan – Lompoc Oil and Gas Plant – Paradise Road Monitoring Plan" SCS Tracer Environmental Report to Santa Barbara County APCD, September, 2008.

Schafer, Paul W., et. al. "PSD Monitoring Plan – Lompoc Oil and Gas Plant – Odor Monitoring Plan" SCS Tracer Environmental Report to Santa Barbara County APCD, September, 2008.

Schafer, Paul W., et. al. "PSD Monitoring Plan – Gaviota Oil Heating Facility – Carpenteria Monitoring Plan" SCS Tracer Environmental Report to Santa Barbara County APCD, September, 2008.

Schafer, Paul W., et. al. "PM-10 Monitoring Protocol for the Mesquite Regional Landfill" SCS Tracer Environmental Report to Imperial County APCD, September, 2007.

Schafer, Paul W., et. al. "Ambient Air Quality Monitoring Quality Assurance/Quality Control Manual" SCS Tracer Environmental Report to InterGen, Central La Rosita, January, 2007.

Professional Registrations:

Council-certified Indoor Environmental Consultant (CIEC #1012011)
Climate Action Reserve (CAR) Lead Verifier
U.S EPA Method 9 Visible Emissions Evaluator (VEE) Certified (ID # 22868)
OSHA HAZWOPER 40-hour Trained (OSHA 29 CFR 1910.120)

Professional Affiliations:

Air and Waste Management Association

CHRISTOPHER J. JIMIESON, PE

Education

B.S., Geological Engineering and Geology, University of Wisconsin-Madison, 1999

Professional Licenses

Professional Engineer, Wisconsin

Professional Experience

Mr. Jimieson has over 13 years of experience as a geological engineer and hydrogeologist on a wide variety of civil and environmental engineering projects. He currently manages industrial and municipal solid waste projects as well as environmental compliance projects. Chris has also consulted on environmental projects at leaking underground storage tank (LUST) sites, chlorinated solvent-contaminated sites, industrial facilities, and historic fill sites with industrial, developer, commercial, military, state, municipal, and solid waste clients.

Landfill Management

Managed and performed construction observation and documentation for several landfill liner expansion, cover, and gas extraction projects in Wisconsin. Each project included submittal of a construction documentation report to the Wisconsin Department of Natural Resources (WDNR).

Conducted coal combustion residue options cost analysis and expansion design options analysis for a coal combustion residue disposal facility at a power plant in Iowa.

Provided a lead field role for research efforts to evaluate methods of measuring fugitive methane emissions from a large active municipal waste landfill in southern Wisconsin.

Coordinated and provided reporting for two surface emission monitoring programs for private sector landfills in Wisconsin in accordance with the state and federal surface emissions monitoring rules.

Managed environmental compliance projects that included industrial stormwater permitting as well as Stormwater Pollution Prevention and Spill Prevention Control and Countermeasures Plans for projects in Wisconsin.

Managed the groundwater and gas monitoring programs and their associated reporting for three Dane County Landfills. Has over eight years of experience with Dane County's landfill monitoring programs, focusing on providing Dane County with accurate data with detailed scientific hypotheses when trends are observed with the data. Worked with project team members to provide Dane County with guidance on several regulatory issues including gas migration, groundwater quality, surface emission monitoring, sampling plan reductions, and greenhouse gas emissions monitoring/reporting.

Landfill Construction Oversight and Documentation

Led geosynthetics construction observation and documentation of final cover construction activities for a 3-acre closure area at the coal combustion residue landfill in Wisconsin. Oversaw the installation of geosynthetic clay liner and geomembrane.

Provided lead field Construction Quality Assurance observation and documentation for a 15-acre landfill liner expansion. The work included the installation of gradient control system piping, subgrade excavation, compacted clay liner, geosynthetics, sedimentation basin/biofilter, and a leachate collection system. Assembled the overall construction documentation report for this work.

Oversaw field geosynthetics Construction Quality Assurance observation and documentation for a 10-acre landfill liner expansion. Coordinated field staff for other phases of the construction and assembled the overall construction documentation report for this work.

Performed lead construction observation and documentation efforts for an 11-acre landfill final cover. The work included the installation of gas header lines, 2-foot compacted clay cap, geomembrane, sand drainage layer, toe-drain system, rooting zone, and topsoil.

Provided excavation oversight and documentation for an 80-acre clay borrow site. The project was done in conjunction with a WisDOT wetland mitigation project. Work included field soil classification, testing, and documentation.

Supported construction observation and documentation efforts for a 10-acre landfill final cover. The work included 2-foot compacted clay cap, geomembrane construction documentation, sand drainage layer, toe-drain system, rooting zone, and topsoil.

Provided geosynthetics construction observation and documentation for an 18-acre and an 11-acre landfill liner expansion for private sector municipal solid waste landfills in southern Wisconsin.

Landfill Groundwater and Gas Monitoring

Performed well development and groundwater monitoring, as well as recorded water level measurements and staff gauge measurements as part of a feasibility study, for a proposed landfill expansion at Lake Area Landfill in Sarona, Wisconsin.

Provided gas recovery system testing; gas probe monitoring; groundwater monitoring well, private well, and leachate monitoring; data analysis; and reporting for active and closed municipal landfills in Wisconsin.

Provided groundwater and gas monitoring at various landfill facilities in Wisconsin. Work included groundwater sampling aquifer testing, gas probe monitoring, gas recovery system testing and data evaluation, and reporting.

Environmental Compliance

Managed environmental compliance projects for a wide variety of clients including solid waste, National Guard, industrial facilities, as well as schools and universities, mainly geared towards providing guidance and plans related to the Stormwater Pollution Prevention and Spill Prevention Control and Countermeasure rules.

Developed over 80 SPCC Plans tailored to the clients' needs with special focus on the process for responding to spills, inspection program for spill prevention, and the specific information pertaining to each of the SPCC-regulated oil sources.

Coordinated the development of a Program 3 Risk Management Plan for an industrial facility.

Completed industrial stormwater permitting and concrete product operations permits for over ten ready mix facility clients in Wisconsin.

Created a Monitoring and Inspection Program Plan to enable a 1,900-head dairy farm to be in compliance with their Wisconsin Pollutant Discharge Elimination System (WPDES) permit.

Provided nine Army National Guard, public university, and industrial clients with a wide variety of web-based training modules for environmental compliance, with environmental and safety regulatory training requirements including Stormwater Pollution Prevention (SWPPP), Spill Prevention Control and Countermeasure (SPCC), First Responder Spill Response HAZWOPER Operations Level, and Hazardous Material/Waste modules. The customized web-based training provided clients with more flexibility in offering required training sessions compared to outside trainers or "canned" training material.

Civil Engineering

Developed an options analysis for the future landfilling of coal combustion residue for a power plant in Iowa. Each option was evaluated for its capacity, site life, technical feasibility, and cost. The options analysis was presented to several key individuals with the utility company upon completion.

Managed an alternatives analysis for the wastewater management from an animal research lab in rural Dane County, Wisconsin. Each option was evaluated for its technical and environmental feasibility, cost, and the anticipated discharge quantity. The proposed approach from the alternatives analysis was presented and discussed jointly with our client and the Wisconsin Department of Natural Resources (WDNR).

Provided nuclear density testing on asphalt surfaces using random sampling method for a WisDOT project on State Highway 113 in Baraboo.

Performed excavation oversight and provided contaminated soil management on several WisDOT roadwork projects including East Washington Avenue in Madison, Wisconsin; U.S. Highway 60 in Columbus, Wisconsin; U.S. Highway 12 in Cambridge, Wisconsin; and State Highway 39 in New Glarus, Wisconsin.

Developed the WisDOT environmental specification documents and calculated the anticipated contaminated soil volumes for the proposed Highway 33 reconstruction in Horicon, Wisconsin.

Observed and documented test pits to evaluate soil properties for two 20-acre residential developments in Fitchburg, Wisconsin.

Assisted with construction staking for multiple subdivisions and municipal roadway projects including initial curb and gutter, subgrade, base storm sewer, sanitary sewer, and watermain staking.

Managed construction staking for multiple phases of two 20-acre single-family residential developments in Fitchburg, Wisconsin. Staking included sanitary sewer, buildings, water, storm sewer, and other various right-of-way features.

Performed construction staking for all phases of a commercial building development in Madison, Wisconsin. Staking included building layout, parking layout, detention ponds, and other various site features.

Provided civil site design; erosion control, and stormwater management permitting; stormwater calculations; and Chapter 30 general permitting for over 10 projects in southern Wisconsin.

Designed civil site and oil system containment for more than five electrical substation developments in Wisconsin. Civil site design tasks included evaluating geotechnical recommendations, access design, grading plan preparation, erosion control and stormwater management plan preparation, site work specification preparation, and construction oversight.

Performed a test pit delineation of waste limits for an old fill area in Lake Geneva, Wisconsin. Provided grid system for geotechnical boring evaluation for potential development. Performed well installation, well development, and well monitoring to evaluate potential groundwater and methane issues on site and evaluated site investigation data for reporting.

Provided design and engineering specifications for construction of three secondary containment systems and mix-load pads at multiple agricultural cooperative facilities in southern Wisconsin.

Completed agricultural drainage district assessments in Jefferson County and Waukesha County, Wisconsin.

Brownfields Redevelopment

Observed and documented dynamic compaction for a 5-acre site. Work included geotechnical evaluation, seismic testing, quantities tracking, and stormwater runoff compliance work. In addition, oversight was performed on subsequent site redevelopment work.

Conducted oversight on a 12-acre brownfields redevelopment site, which included soil management, excavation of polynuclear aromatic hydrocarbons (PAHs), piping removal containing asbestos, and general management of debris disposal.

Performed geotechnical boring staking, geotechnical drilling oversight for a 9-acre, mixed-use development. The proposed development included senior housing, multi-family housing, commercial space, and a grocery store. The site was located at a former brass foundry near downtown Kenosha. Complex environmental issues had to be considered as part of site development.

Completed data analysis and Phase 2 Environmental Site Assessments for more than five sites in southern Wisconsin.

Soil and Groundwater Remediation

Completed an extensive analysis to remediate 6,400 cubic yards of contaminated soil in Wisconsin Rapids, Wisconsin. Each option was evaluated for its technical and economic feasibility, as well as its anticipated effectiveness and potential future liability. The alternative chosen was permitted, and the remediation was successfully completed for the cost determined in the options analysis.

Investigated a transformer pad at a substation for the presence of PCBs contamination in Wisconsin.

Provided operation and maintenance on two groundwater extraction systems having agricultural contamination in groundwater in DeForest and Cottage Grove, Wisconsin.

Observed and documented the installation of electrokinetic remediation systems at multiple chlorinated solvent contaminated sites in Wisconsin. In addition, developed the low-flow groundwater sampling plans, provided general system operation and maintenance, and performed air/groundwater monitoring to assess system effectiveness.

Conducted groundwater sampling of monitoring wells and piezometers ranging from 150 to 600 feet in depth in Liberal, Kansas.

Assessed the extent of chlorinated solvent contamination in unsaturated soils as part of utility worker risk assessment and conducted low-flow groundwater monitoring at a facility in Cleveland, Ohio.

Performed work on over 100 other petroleum, chlorinated solvent, and agricultural-contaminated projects in Wisconsin and Illinois. Field duties included: Geoprobe™ soil sampling; excavation oversight and sampling; groundwater monitoring well installation, development, sampling, and abandonment; surveying; remediation system operation and monitoring; slug testing; site assessments; and calibration of field instruments. Also prepared numerous site investigation workplans, site investigation reports, closure assessment reports, site assessment reports, limited Phase 2 assessment reports, and health and safety plans.

Public Service

Served on the City of Fitchburg's Resource Conservation Commission (2008 to 2011). Duties included general refuse/recycling policy recommendations to the City of Fitchburg; participation in citywide recycling and waterway cleanup events; general stormwater policy/design advising;

and administration of Fitchburg's participation with U.S. Mayor's Climate Protection Agreement (USMCPA). Specific duties associated with USMCPA included leading Fitchburg's USMCPA Community Outreach initiative, providing data collection/recommendations on two of the twelve standard USMCPA initiatives, and conducting an analysis using Clean Air and Climate Protection (CACP) software on how Fitchburg's USMCPA recommended measures would impact the community's carbon footprint.

Publications and Presentations

Instructor – "How to Bring Your Municipal Electric Utility into Compliance with U.S. EPA's Revised SPCC Rules," Municipal Electric Utilities of Wisconsin, Stevens Point, WI, November 2007.

"Fugitive Emissions Monitoring at an Active Landfill," Global Waste Management Symposium, 2008.

SCS Tracer Environmental

Matthew A. Peña

Education:

B.S. Mechanical Engineering *University of California, Santa Barbara*

Professional Experience:

Mr. Peña is a lead engineer for the company's Air Quality Services Laboratory. His duties include the assessment of performance on all hardware involved with monitoring programs as well as troubleshooting and preventive maintenance. He is also responsible for the training of field technicians on the company's monitoring programs. It is also his responsibility for coordinating field logistics for all monitoring programs.

Mr. Peña is thoroughly familiar with all types of air quality instrumentation and uses this knowledge in maintaining the company's current network of monitoring sites. He is also familiar with EPA regulations covering collection of air monitoring data and quality control requirements.

Prior to joining SCS Tracer Environmental, Mr. Peña was employed by BTC Environmental, Inc. as director of their Air Test Division. In that capacity, he managed and directed BTC's source testing programs which included scheduling, detailing testing procedures and methods, obtaining certifications, overseeing quality assurance activities as well as repairing and maintaining project hardware.

Specific examples of some program experience for Mr. Peña includes:

Nuevo Energy Company - PSD Monitoring for the Point Pedernales Pipeline Compliance Program. A multi-year monitoring program conducted which satisfies permit to operate conditions with the County of Santa Barbara. The project is a continuation of a larger program initiated under UNOCAL Corporation and later sold to Torch. During the life of this program, no NOV's have been issued relative to the monitoring activities.

Chevron USA, Inc. - PSD and Odor Impact Monitoring Regarding Permit Conditions for the Gaviota Gas Plant. Operated and maintained four PSD and 2 full odor monitoring sites relative to the Gaviota Oil & Gas Processing Plant in Santa Barbara County, CA. The two-year program included developing monitoring plans and generating regulatory acceptable databases for the monitoring period. All data capture and QA/QC objective were achieved to the satisfaction of Chevron and the Santa Barbara APCD with no NOV's issued.

California Air Resource Board/U.S. EPA - Ambient Monitoring Program for Cities Along the California/Mexico Border. Authored monitoring plans and oversaw QA/QC program requirements for a 12 station monitoring network which measured urban baseline impacts for Tijuana and Mexicali, Baja California. Each network supported criteria pollutant monitoring as well and particulates (PM₁₀), VOCs (TO-14) and air toxics (aldehydes, metals).

UNOCAL - Preconstruction PSD Monitoring in Santa Barbara County for Proposed OCS Projects. A multi-year compliance effort relative to OCS development projects in the Santa Barbara Channel. As many as 13 stations were operated during peak activities which included all criteria pollutants, particulates, PM₁₀, and ROC. The Reactive Organic Compound measurements using 6l summa canisters was the precursor to today's TO-14 analysis.

SCS Tracer Environmental

Vandenberg AFB – PSD Monitoring in Santa Barbara County in Support of Permit Requirements.
A multi-year effort was undertaken to operate and maintain two PSD monitoring stations at Vandenberg AFB. Operations were taken over from a contractor that had subjected the permit holder to enforcement action. All deficiencies were erased within the first two months of operation and no enforcement action was taken over a five-year period of operation.

Professional Registrations:

OSHA HAZWOPER 40-hour Trained (OSHA 29 CFR 1910.120)

Professional Affiliations:

American Society of Mechanical Engineers (ASME)

ANGELA WILCOX -HULL

Education

B.S., Geology and Geophysics, and Certificate of Environmental Studies, University of Wisconsin-Madison, 2006

Specialty Certifications

Certified Site Assessor, Wisconsin Department of Commerce

Certified Erosion Inspector, Wisconsin Department of Commerce

Professional Affiliations

Wisconsin Ground Water Association

Geological Society of America

Professional Experience

Ms. Wilcox-Hull has six years of experience in the environmental field. She is experienced in organizing and performing environmental site assessments; spill prevention, control, and countermeasure planning; soil and groundwater contamination investigations; and remediation activities. Angie has also performed agricultural conservation plans, native prairie restoration inspections, and erosion control inspections and plan review for permitting for Dane County. She has worked with a variety of government agencies in Wisconsin, Illinois, New Jersey, Connecticut, and Pennsylvania, and clients in the petroleum, agricultural, real estate, solid waste, and energy industries.

Phase 1 Environmental Site Assessments

Performed over 35 Phase 1 Environmental Site Assessments utilizing the American Society for Testing and Materials (ASTM) standards and client-specific scopes of work. Also experienced in performing radioactive material surveying and sampling.

Soil and Groundwater Investigation and Remediation

Participated in over 90 Phase 2 Environmental Site Assessments at sites throughout Wisconsin, Iowa, Connecticut, New Jersey, and Pennsylvania. Work included soil and groundwater sampling, data analysis, and report preparation.

Investigated and planned remedial soil excavations at sites affected by petroleum, agrichemical, solvents, and lead. Responsibilities have included the preparation of workplans, health and safety plans, bid documents, agency updates, site investigation reports, and closures.

Completed and directed a variety of field investigation activities including groundwater monitoring, low-flow groundwater sampling, soil sampling, and surveying.

Performed groundwater monitoring using various sampling and collection methods. Used on-site analytical equipment measuring pH, conductivity, and dissolved oxygen.

Oversaw soil excavations and assisted with the segregation of soil impacted by petroleum, pesticides, and metals.

Acted as lead Health and Safety Officer during fieldwork. Responsibilities included providing important health and safety information to contractors and other personnel on site and monitored the air quality of work area.

Wisconsin Department of Transportation

Phase 4 State Highway 78, Rural Segment, Badger Army Ammunition Plant, Sauk County, – Coordinated well installation using rotosonic drilling technique and performed well abandonment.

USH 151 Reconstruction, Segment 3, Madison – Assisted in construction oversight and tank removals for highway reconstruction and completed Construction Oversight and Contaminated Materials Handling Report.

Noe Service Station, Lewis – Performed periodic groundwater sampling and monitoring, soil excavation, and related data analysis and report preparation.

Brownfield Redevelopment

Prepared EPA-required Quality Assurance Project Plan (QAPP), Phase 2 Site Assessment Sampling and Analysis Plans (SAPs), and Phase 2 Environmental Site Assessment (ESA) reports for the Brownfield site in the City of Prairie du Chien, Wisconsin.

Publications and Presentations

Hull, A., Webber, C., Tikoff, B., and Little, T., Progressive Olivine LPO Reorientation in a Small-Scale Shear Zone, Red Hills, New Zealand, Geological Society of America Annual Conference, November 2004.

GARY STERKEL

Education

B.S., Water Chemistry, University of Wisconsin-Oshkosh, 1975

Specialty Certifications

Nuclear Density Troxler Training, April 2002

Professional Experience

Mr. Sterkel has 33 years of experience in the solid waste and environmental compliance / remediation field. He has worked extensively in the management and coordination of multiple sites requiring reporting and analysis. This involves permit requirement coordination, project budgeting, sampling, data review, task scheduling, communication with vendors and subcontractors, and preparing submittals to city, state, and federal agencies. Prior to joining SCS BT Squared, Mr. Sterkel worked in a laboratory as a chemist analyzing various environmental samples.

Solid Waste Landfills

Acted as project manager accountable for 42 landfill projects, coordinating all permitted requirements for environmental compliance including project budgeting, setup of laboratory methods, all required sampling, data review and reporting, site conditions, environmental health and safety issues, and training.

Worked on dozens of projects including bid preparation and evaluation, contractor selection and management, task scheduling and tracking, environmental auditing and assessments, and agency negotiation.

Developed sampling programs with regulated laboratories to determine required methods and detection limits for correct and timely data analysis.

Spearheaded new Environmental Compliance Department providing sampling associated with groundwater, leachate, lysimeters, surface water, wastewater, air, and landfill gas.

Installed, operated, and repaired hundreds of groundwater well pumping systems.

Prepared and submitted numerous environmental reports to city, state, and federal agencies.

Conducted numerous required assessments of environmental data in accordance with established standards.

Remediation

Performed remediation of groundwater contamination and burial pit characterization at the Westinghouse Nuclear Refueling Plant in Festus, Missouri.

Conducted fly ash solidification of sludge lagoons, site remediation, and site closure at Burlington Industries in Clarksville, Virginia.

Laboratory Chemist

Collected and analyzed thousands of environmental samples of various media including air, groundwater, surface water, wastewater, and solid/hazardous waste.

Participated in over 50 hazardous site cleanups and emergency spill response for numerous clients including the State of Wisconsin.

Performed laboratory analysis on water, wastewater, air, and solid/hazardous samples, including GCMS, ICP, and GFAA.

Conducted thousands of chemical analysis of water and wastewater samples.

Collected hundreds of industrial wastewater samples.

Site Investigation

Supported the development of various sampling and analysis or other work plans to identify site conditions.

Coordinated implementation of site investigation activities at multiple sites in accordance with project requirements. The activities included collection of environmental samples, data analysis and regulatory reporting, procurement of laboratory services, establishing appropriate quality control protocols, and personnel training.

Performed environmental audits of numerous facilities for compliance with applicable permits and regulations.

Participated in over 50 hazardous material cleanups and emergency spill response actions for various clients including the State of Wisconsin.

Environmental Data Management

Reviewed submittals for compliance with project plans (sampling and analysis, quality assurance project plans) prior to submittal to local, state, or federal regulatory agencies.

Compiled, evaluated, and summarized data for comparison to established environmental standards and submittal to regulatory agencies.

Performed laboratory analysis of environmental samples using GC/MS, ICP and GFAA methods.

Environmental Sampling

Collected and coordinated analysis of numerous environmental samples of various media, including air, surface and subsurface soil, groundwater, surface water, wastewater, and solid or hazardous waste.

Installed flow monitoring devices in numerous wastewater applications to assess compliance with industrial pre-treatment requirements.

PAUL A. GROVER

Education

B.S., Rehabilitative Psychology, University of Wisconsin-Madison, 1988

Specialty Certifications

Certified Site Assessor by the Wisconsin Department of Industry, Labor, and Human Relations

Professional Experience

Mr. Grover has 21 years of experience coordinating and performing a wide variety of fieldwork with primary expertise in Operation and Maintenance (O&M) of environmental remediation systems. His expertise also extends to O&M system troubleshooting, equipment maintenance, and equipment calibration. Mr. Grover also has extensive experience in the following areas: landfill gas monitoring; landfill gas system balancing; groundwater monitoring; drilling oversight and well construction / development; surveying; hydraulic conductivity testing; and construction oversight and documentation.

Remediation System Operation and Maintenance

Provided operation and maintenance on several closed landfill site remediation systems, which included biotreatment of recovered groundwater and air sparging/soil vapor extraction systems. Work included system sampling, system routine maintenance, and system troubleshooting.

Performed operation and maintenance on over 50 remediation systems in Wisconsin with varying types of environmental contamination including petroleum and agricultural constituents, chlorinated solvents, and landfill contamination.

Groundwater and Landfill Gas Monitoring

Developed and sampled thousands of groundwater monitoring wells in the states of Wisconsin, Illinois, and Iowa in accordance with all representative state guidelines. A majority of the groundwater monitoring took place in Wisconsin in accordance with NR 141 and Wisconsin Department of Natural Resources (WDNR) guidelines.

Conducted landfill gas monitoring on gas probes, gas extraction wells, and other landfill structures at six active/closed landfills in Wisconsin with a Landtec GEMTM 2000 gas meter.

Provided landfill gas system balancing for two public sector landfills in Wisconsin.

Completed surface emission monitoring for a private sector landfill in Wisconsin in accordance with the state and federal surface emissions monitoring rules.

Collected water quality samples from over 30 municipal and private water supply wells/ systems.

Abandoned hundreds of monitoring wells in accordance with NR 141 and WDNR guidelines for gas stations, petroleum bulk storage facilities, petroleum distributors, and solid waste landfills.

Hydraulic Conductivity Testing

Performed slug testing, groundwater pump tests, and soil vapor extraction (SVE) pilot tests on hundreds of wells and systems in Wisconsin.

Surveying

Provided construction staking with a Registered Land Surveyor for development work in a residential subdivision in Fitchburg, Wisconsin.

Performed level surveying on hundreds of monitoring wells in Wisconsin and Illinois to tie the wells into mean sea level elevations from existing benchmarks.

Equipment Maintenance and Calibration

Performed field equipment maintenance and calibration on a wide variety of instruments/equipment used by SCS BT Squared environmental technicians, including but not limited to, portable data loggers, pressure transducers, flame-ionization detectors (FID), photo-ionization detector (PID), interface probes, air velocity meters, manual and mechanical pumps, soil sampling equipment, and groundwater sampling equipment.

Trained SCS BT Squared staff on Health & Safety Procedures for water treatment systems (including chemical exposure), monitoring equipment, monitoring procedures, hazardous communication, lockout tag out, personal protective equipment, and water treatment chemical handling, storage, and transportation.

ATTACHMENT G

Project Cost Summaries Parts 1 and 2

ATTACHMENT G

City of Franklin – Quarry Monitoring Services SCS Proposal

Project Costs Part 1.

Base Bi-Monthly Charges:

1. Blast Monitoring, Data Collection, and Evaluation		
a) Review Blasting Reports:	Included	
b) Fixed-Location Blast Monitoring with a City-provided seismograph:	Included	
c) Mobile-Location Blast Monitoring:	Included	
d) Check Blasting Records	<u>Included</u>	
Cost for Scope of Work #1	(A)	<u>\$31,979</u>
2. Air Quality Monitoring, Data Collection, and Evaluation		
PM ₁₀ Monitoring: with Consultant-Provided Aerosol Monitor [2.a]	(B)	<u>\$24,455</u>
3. Quarry Operations Monitoring and Monitoring by Direct Observation		
a) Site Visits:	Included	
b) Direct Air Quality Observation:	Included	
c) Quarry Operations Review:	Included	
Cost for Scope of Work #3	(C)	<u>\$13,885</u>
4. Additional PDD Compliance and		
5. Reporting Requirements and Coordination with City Staff.		
Subtotal All Bi-Monthly Responsibilities	(D)	<u>\$18,490</u>
SUBTOTAL BASE TOTAL COSTS(A) + (B) + (C) + (D) = (E)		<u>\$88,809</u>
Annual Reporting Requirement [Scope of Work 5.c]		(F) <u>\$2,998</u>
TOTAL BASE ANNUAL COSTS	(E) + (F)	<u>\$91,807</u>

ATTACHMENT G (Continued)

City of Franklin – Quarry Monitoring Services SCS Proposal

Project Costs Part 2.

Additional Required Costs or Cost Adjustments Per Scope of Work

1. Blast Monitoring, Data Collection, and Evaluation

- a) Additional Cost for Scope of Work #1 if the Proposing Consultant supplies the Fixed-Location Blast Monitoring seismograph

Possible adjustment to Project Costs Part 1. (A) \$5,225*

- c) Additional Mobile-Location Blast Monitoring:

“Furthermore, the contractor will provide a cost per placement (as described above) for any additional calls for seismograph services or placement, beyond those numbers and uses set forth above.” [From Scope of Work 1.c) iii..]

Unit cost pricing or possible adjustment to Project Costs Part 1. (A) \$535

2. Air Quality Monitoring, Data Collection, and Evaluation

Reduction to Cost (B) with City-Provided aerosol monitor

Possible adjustment to Project Costs Part 1. (B) \$2,000

Additional Cost for each placement of a Consultant-provided aerosol monitor
[From Scope of Work 2. a) ii.]

Unit cost pricing/possible adjustment to Project Costs Part 1.(B) \$3,900**

Additional Cost for each placement of a City-provided aerosol monitor
[As may be required per Scope of Work 2. b)]

Unit cost pricing/possible adjustment to Project Costs Part 1. (B) \$3,650**

* Cost for rental of a Minimate Plus™ Seismograph for one year. Alternative: Purchase for \$6,595.00

** One week (7 days) of monitoring, filter analysis, and reporting.

ATTACHMENT H

Fee Schedule

SCS BT SQUARED

FEE SCHEDULE

PERSONNEL

<u>Category</u>	<u>Rate/Hour</u>
Project Director/Senior Project Advisor.....	\$ 165
Senior Project Manager.....	\$ 130 – \$ 150
Project Manager/Survey Manager.....	\$ 115
Senior Project Professional.....	\$ 108
Project Professional II.....	\$ 98
Project Professional I.....	\$ 92
Survey Crew Chief.....	\$ 85
Staff Professional.....	\$ 82
Field Professional.....	\$ 82
Drafter/CADD/Graphics.....	\$ 80
Senior Technician.....	\$ 75
Field Technician.....	\$ 60
Project Administrator.....	\$ 65
Administrative Assistant.....	\$ 55

EQUIPMENT AND EXPENSES

Groundwater Monitoring		PPE and Air and Gas Monitoring		Marking Paint \$ 5/each	
Ice.....	\$ 7/bag	Air Monitoring Detector Tubes.....	\$ 15/each	¾-inch Irons.....	\$ 4/each
Chipped Bentonite.....	\$ 12/bag	Four Gas Meter.....	\$ 65/day	Miscellaneous	
Ph, Conductivity, Temp, TDS Meter.....	\$ 20/day	Landfill Gas Meter.....	\$ 100/day	55-Gallon Drums.....	\$ 42/each
Dedicated Bailers.....	\$ 35/each	Personal Air Sampling Pump.....	\$ 30/day	Water Storage Tank.....	\$ 75/day
Disposable Bailers.....	\$ 15/each	Respirator Cartridges.....	\$ 25/pair	Air Compressor.....	\$ 40/day
Dissolved Oxygen Tubes.....	\$ 5/each	Tyvek Suit.....	\$ 20/each	Curlex Blanket.....	\$ 65/each
Dissolved Oxygen Meter.....	\$ 40/day	Level D PPE.....	\$ 5/day	Curlex Staples.....	\$ 10/box
Dissolved Oxygen Test Kit.....	\$ 25/day	Modified Level D PPE.....	\$ 15/day	Digital Camera.....	\$ 10/day
Field Filters.....	\$ 16/each	Soil Sampling and Testing		Portable Generator.....	\$ 40/day
Field Filtering Apparatus.....	\$ 22/day	FID/PID Rental.....	\$ 75/day	Metal Detector.....	\$ 35/day
Well Caps.....	\$ 18.25/each	Hand Auger Kit.....	\$ 30/day	Oil Dry Absorbent.....	\$ 8/bag
Petroleum Product Interface Probe.....	\$ 70/day	Nuclear Density Gauge.....	\$ 125/day	Oil Absorbent Boom (5" x 10').....	\$ 70/each
pH Meter.....	\$ 20/day	Soil Scale.....	\$ 25/day	Oil Absorbent Boom (8" x 10').....	\$ 90/each
Pressure Trans. / Data Logger.....	\$ 125/day	Vapor Sampling Kit.....	\$ 25/day	Hard Boom (10").....	\$ 1.80/foot
Water Level Indicator.....	\$ 20/day	Concrete Core Drill.....	\$ 120/day	Oil Absorbent Pad.....	\$ 0.75/each
Brass Well Locks.....	\$ 10/each	Concrete Air/Stump.....	\$ 30/each	Plastic Sheeting.....	\$ 55/roll
Pumps		Concrete Cylinder Mold.....	\$ 3/each	Spill Response Trailer.....	\$ 150/day
Well Development Pump.....	\$ 30/day	Surveying		Utility Trailer.....	\$ 25/day
Peristaltic Pump.....	\$ 30/day	Level/Laser Level.....	\$ 5/hour	Flatbed Trailer.....	\$ 50/day
Submersible Pump.....	\$ 100/day	GPS Unit/Total Station.....	\$ 20/hour	Copies.....	\$ 0.07/each
2" Gas Engine Pump.....	\$ 40/day	Survey Lath.....	\$ 0.60/each	Vehicle.....	\$ 0.555/mile
Sump Pump.....	\$ 10/day	Survey Hubs.....	\$ 0.60/each	Orange Safety Fence.....	\$ 40/roll
Explosion Proof Pump.....	\$ 100/day	Survey Chasers.....	\$ 0.30/each		

Equipment and expense rates may be modified by SCS BT Squared from time to time as new equipment is added or costs change. Client will be notified prior to any change in the personnel rates that will affect the project billings.

Outside services contracted through SCS BT Squared will be billed at cost plus 10 percent. Outside services may include, but are not limited to, laboratory testing, drilling, or other subcontracted services.



**City of Franklin Quarry Monitoring Proposal:
Supplemental Questions for the Consultants
STANTEC**

As the following questions relate to the interview stage, written answers to the questions are not required. You may, however, feel free to submit written or printed documentation as you deem necessary to answer the questions.

Miscellaneous (General Experience)

1. We asked for "A clear and concise statement indicating the consultant's (and any subcontractor proposed to be used by the consultant) knowledge, past performance, experience, and familiarity with the type of work set forth within this RFP, with quarry operations (surface mining) in general, and with any related or required field of expertise." Please describe in more detail your quarry monitoring experience and how that experience applies to the services the City is requesting.
2. Both consultants: For each Work Program task, please clarify which team members will be assigned to which tasks. In those instances where this is not known or will vary, please clarify what the minimum experience and qualifications of these individuals will be.
3. Please provide an organizational chart to clarify who reports to whom, and to clarify the value to the City of the role each person plays. (This relates to the last question and the purpose of this is to help us understand the individuals and roles as presented in the proposal.)

Miscellaneous (Costs)

4. Although we asked for an allocation of estimated hours worked so that we could better evaluate the proposals, the sample contract provided is not an hourly-based contract. As such, we recognize that components of the scope of work that take longer than anticipated or less than anticipated can significantly affect your profitability both positively and negatively. If selected, are you prepared to complete the scope of work for the prices identified and how confident are you that you have identified and incorporated adequate time for completion of the tasks in a professional manner?
5. Your Unannounced Quarry visits are estimated at 4 hours each, your daily trips to an air monitor are estimated at 3.5 hours each, and your public meeting presentations are estimated at 4 hours each. How much time of each of these estimates is anticipated travel time charges and how much was for the work itself?
6. Please be aware that pursuant to the subject Planned Development District ordinances, both quarries are subject to paying annual monitoring costs in an amount not to exceed approximately \$21,000 (in 2012) and the Common Council may or may not appropriate additional funds. If due to budget constraints less monitoring could be funded, what services would you recommend further revising or eliminating? If we ultimately select a consultant and seek a scope of services that doesn't exceed \$40,000 to \$45,000, would you still be interested in participating?
7. Is there any part to our proposed scope of work that you believe might be excessive/unnecessary and could be reduced or eliminated if we were trying to save money but still thoroughly monitor the activity?
8. Please confirm that your proposed project cost for quarry monitoring services includes unlimited interaction with City staff.
9. What is your overhead factor as it relates to salary?

Blast Monitoring

10. Have you encountered or resolved situations where blasting standards have been exceeded, private property damaged, or public health affected? If so, how did you address this situation?
11. Please provide detailed information about how the blast monitoring equipment would be secured and protected from damage/disturbance under the variety of sites this equipment might be located. Your proposal referenced "expected protocol to avoid damage" but no details were provided
12. What do you believe would be the pros and cons of also conducting air blast monitoring of the City's two quarries?
13. Why do you propose downloading the seismograph recordings once a week? The RFP states it only needs to be downloaded at least once every three weeks. Does your cost include retrieval, set up, batteries, etc.?

Air Quality Monitoring

14. Have you encountered or resolved situations where air quality standards have been exceeded or public health affected? If so, how did you address this situation?
15. Please explain how your proposed changes to the air quality monitoring provisions of the RFP will continue to provide high quality and defensible data and how you would explain this to the general public. Please be aware that air quality is of particular concern to the quarry's neighbors
16. The RFP was not specific on how to relate or correlate weather data with air quality monitoring results or exactly how weather data would be collected. This is an issue that will likely need to be addressed more directly in the final contract when it is awarded. Please explain how the air quality monitoring might be affected by weather or other environmental conditions, and if so, how you would recommend addressing that?
17. Please identify the power source requirements of the air monitors and what limitations, if any, this would impose on where these could be located.

Quarry Operations Monitoring

18. Please explain your team's quarry air opacity evaluation experience and the training your staff will receive or has received relative to opacity monitoring.
19. What value do you perceive there is to using our seismograph to verify the readings of the quarry's seismograph?

Reports and Coordination with City

20. Please explain how you will present highly technical information, and your monitoring results, to the general public in a clear, concise, and understandable fashion.

Miscellaneous (Health)

21. Is use of the two Certified Industrial Hygienists included in your Project Costs? If so, how do you intend to use them?

**City of Franklin Quarry Monitoring Proposal:
Supplemental Questions for the Consultants
SCS ENGINEERING**

As the following questions relate to the interview stage, written answers to the questions are not required. You may, however, feel free to submit written or printed documentation as you deem necessary to answer the questions.

Miscellaneous (General Experience)

1. We asked for "A clear and concise statement indicating the consultant's (and any subcontractor proposed to be used by the consultant) knowledge, past performance, experience, and familiarity with the type of work set forth within this RFP, with quarry operations (surface mining) in general, and with any related or required field of expertise." Please describe in more detail your quarry monitoring experience and how that experience applies to the services the City is requesting.
2. For each Work Program task, please clarify which team members will be assigned to which tasks. In those instances where this is not known or will vary, please clarify what the minimum experience and qualifications of these individuals will be.
3. Please provide an organizational chart to clarify who reports to whom, and to clarify the value to the City of the role each person plays. (This relates to the last question and the purpose of this is to help us understand the individuals and roles as presented in the proposal.)

Miscellaneous (Costs)

4. Although we asked for an allocation of estimated hours worked so that we could better evaluate the proposals, the sample contract provided is not an hourly-based contract. As such, we recognize that components of the scope of work that take longer than anticipated or less than anticipated can significantly affect your profitability both positively and negatively. If selected, are you prepared to complete the scope of work for the prices identified and how confident are you that you have identified and incorporated adequate time for completion of the tasks in a professional manner?
5. You appear to have estimated about 2 to 2.5 hours for each unannounced quarry visit to monitor operations and 2 to 2.5 hours for air quality monitoring. How much of that time is travel time and explain why you believe this is ample time to complete the necessary inspection? How would you anticipate addressing the circumstance if it turns out you cannot achieve your observations within your estimated time?
6. (a) Please be aware that pursuant to the subject Planned Development District ordinances, both quarries are subject to paying annual monitoring costs in an amount not to exceed approximately \$21,000 (in 2012) and the Common Council may or may not appropriate additional funds. If due to budget constraints less monitoring could be funded, what services would you recommend further revising or eliminating? If we ultimately select a consultant and seek a scope of services that doesn't exceed \$40,000 to \$45,000, would you still be interested in participating?
- 6 (b) One of the cost saving proposals offered by another proposal was that City staff support the contractor on certain tasks that involved a second person helping the consultant's primary worker, such as if 2 people are needed to place or relocate the air quality monitor. If you were the selected contractor, would you be open to incorporating such an approach in to the contract?

7. Is there any part to our proposed scope of work that you believe might be excessive/unnecessary and could be reduced or eliminated if we were trying to save money but still thoroughly monitor the activity?
8. Please confirm that your proposed project cost for quarry monitoring services includes unlimited interaction with City staff.
9. What is your overhead factor as it relates to salary?

Blast Monitoring

10. Have you encountered or resolved situations where blasting standards have been exceeded, private property damaged, or public health affected? If so, how did you address this situation?
11. Please provide detailed information about how the blast monitoring equipment would be secured and protected from damage/disturbance under the variety of sites this equipment might be located. Your proposal referenced placing the units in basements and garages; however, the reference to "the construction of a security box" is unclear.
12. What do you believe would be the pros and cons of also conducting air blast monitoring of the City's two quarries?

Air Quality Monitoring

13. Have you encountered or resolved situations where air quality standards have been exceeded or public health affected? If so, how did you address this situation?
14. Please explain how your proposed changes to the air quality monitoring provisions of the RFP will continue to provide high quality and defensible data and how you would explain this to the general public. Please be aware that air quality is of particular concern to the quarry's neighbors.
15. The RFP was not specific on how to relate or correlate weather data with air quality monitoring results or exactly how weather data would be collected. This is an issue that will likely need to be addressed more directly in the final contract when it is awarded. Please explain how the air quality monitoring might be affected by weather or other environmental conditions, and if so, how you would recommend addressing that?
16. Please identify the power source requirements of the air monitors and what limitations, if any, this would impose on where these could be located.
17. Please clarify how often air quality monitor filters will be changed.

Quarry Operations Monitoring

18. Please explain your team's quarry air opacity evaluation experience and the training your staff will receive or has received relative to opacity monitoring.
19. What value do you perceive there is to using our seismograph to verify the readings of the quarry's seismograph?

Reports and Coordination with City

20. Please explain how you will present highly technical information, and your monitoring results, to the general public in a clear, concise, and understandable fashion.

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<p>APPROVAL</p> <p><i>slw</i></p>	<p>REQUEST FOR COUNCIL ACTION</p>	<p>MEETING DATE</p> <p>08/07/12</p>
<p>REPORTS & RECOMMENDATIONS</p>	<p>RESOLUTION AUTHORIZING CERTAIN OFFICIALS TO ACCEPT A CONSERVATION EASEMENT FOR AND AS PART OF THE REVIEW AND APPROVAL OF AN AMENDMENT TO PLANNED DEVELOPMENT DISTRICT NO. 22 FOR THE FRANKLIN MEADOWS SENIOR INDEPENDENT LIVING APARTMENT BUILDING DEVELOPMENT (FRANKLIN SENIOR HOUSING, INC., APPLICANT) (7704 SOUTH 51ST STREET)</p>	<p>ITEM NUMBER</p> <p><i>6.7.</i></p>

City Development staff recommends approval of a resolution authorizing certain officials to accept a Conservation Easement for and as part of the review and approval of an amendment to Planned Development District No. 22 for the Franklin Meadows senior independent living apartment building development (Franklin Senior Housing, Inc., Applicant) (7704 South 51ST Street), subject to technical corrections by the City Attorney.

COUNCIL ACTION REQUESTED

A motion to adopt Resolution No. 2012-_____, authorizing certain officials to accept a Conservation Easement for and as part of the review and approval of an amendment to Planned Development District No. 22 for the Franklin Meadows senior independent living apartment building development (Franklin Senior Housing, Inc., Applicant) (7704 South 51ST Street), subject to technical corrections by the City Attorney.

STATE OF WISCONSIN

CITY OF FRANKLIN

MILWAUKEE COUNTY

RESOLUTION NO. 2012-_____

A RESOLUTION AUTHORIZING CERTAIN OFFICIALS TO
ACCEPT A CONSERVATION EASEMENT FOR AND AS PART
OF THE REVIEW AND APPROVAL OF AN AMENDMENT TO PLANNED
DEVELOPMENT DISTRICT NO. 22 FOR THE FRANKLIN MEADOWS SENIOR
INDEPENDENT LIVING APARTMENT BUILDING DEVELOPMENT (FRANKLIN
SENIOR HOUSING, INC, APPLICANT) (7704 SOUTH 51ST STREET)

WHEREAS, the Plan Commission having approved an amendment to Planned Development District No. 22 upon the application of Franklin Senior Housing Inc., on May 5, 2011, and the Plan Commission having conditioned approval thereof in part upon Common Council approval of a Conservation Easement to protect the wetland buffer on the site; and

WHEREAS, §15-9.0208B.1.f. of the Unified Development Ordinance requires the submission of a Natural Resource Protection Plan in the Planned Development District Amendment review process and the Unified Development Ordinance requires conservation easements to be imposed for natural resource features identified within such Plan to protect such features, all as part of the approval process for a Planned Development District Amendment; and

WHEREAS, the City Engineering Department, Department of City Development and the Office of the City Attorney having reviewed the proposed Conservation Easement and having recommended approval thereof to the Common Council.

NOW, THEREFORE, BE IT RESOLVED, by the Mayor and Common Council of the City of Franklin, Wisconsin, that the Conservation Easement submitted by Franklin Senior Housing Inc., in the form and content as annexed hereto, be and the same is hereby approved; and the Mayor and City Clerk are hereby authorized to execute such Easement as evidence of the consent to and acceptance of such easement by the City of Franklin.

BE IT FURTHER RESOLVED, that the City Clerk be and the same is hereby directed to obtain the recording of the Conservation Easement in the Office of the Register of Deeds for Milwaukee County, Wisconsin.

Introduced at a regular meeting of the Common Council of the City of Franklin this _____ day of _____, 2012.

Passed and adopted at a regular meeting of the Common Council of the City of Franklin this _____ day of _____, 2012.

A RESOLUTION AUTHORIZING CERTAIN OFFICIALS
TO ACCEPT A CONSERVATION EASEMENT ***
FRANKLIN SENIOR HOUSING INC.
RESOLUTION NO. 2012-_____

Page 2

APPROVED:

Thomas M. Taylor, Mayor

ATTEST:

Sandra L. Wesolowski, City Clerk

AYES _____ NOES _____ ABSENT _____

CONSERVATION EASEMENT

FRANKLIN SENIOR HOUSING

This Conservation Easement is made by and between the CITY OF FRANKLIN, a municipal corporation of the State of Wisconsin, hereinafter referred to as "Grantee", and FRANCIS WOODS, LLC, a Wisconsin limited liability company, hereinafter referred to as "Grantor", and shall become effective upon the recording of this Grant of Conservation Easement, together with the Acceptance following, with the Office of the Register of Deeds for Milwaukee County, pursuant to §700.40(2)(b) of the Wisconsin Statutes.

WITNESSETH

WHEREAS, Grantor is the owner in fee simple of certain real property, being a part of Parcel One (1) of Certified Survey Map No. 2855, located in the City of Franklin, County of Milwaukee, State of Wisconsin, as further described on the cover page attached hereto and hereby made a part hereof ("Parcel 1"); and

WHEREAS, Grantor agrees that a portion of said Parcel 1, which is depicted and described on Exhibit A, attached hereto and hereby made a part hereof ("protected property"), should be subjected to a conservation easement, as defined in §700.40(2)(b) of the Wisconsin Statutes; and

WHEREAS, the Grantor desires and intends that the natural elements and the ecological and aesthetic values of the protected property including, without limitation, wetlands and wetland buffers, be preserved and maintained by the continuation of land use that will not interfere with or substantially disrupt the natural elements or the workings of natural systems; and

WHEREAS, Grantee is a "holder", as contemplated by §700.41(1)(b)1. of the Wisconsin Statutes, whose purposes include, while exercising regulatory authority granted to it, *inter alia*, under §62.23 and §236.45 of the Wisconsin Statutes, the conservation of land, natural areas, open space, and water areas; and

WHEREAS, the Grantor and Grantee, by the conveyance to the Grantee of the conservation easement on, over, and across the protected property, desire to conserve the natural values thereof and prevent the use or development of the protected property for any purpose or in any manner inconsistent with the terms of this conservation easement; and

WHEREAS, the Grantee is willing to accept this conservation easement subject to the reservations and to the covenants, terms, conditions, and restrictions set out herein and imposed hereby.

NOW, THEREFORE, the Grantor, for and in consideration of the foregoing recitations and of the mutual covenants, terms, conditions, and restrictions subsequently contained, and as an absolute and unconditional dedication, does hereby grant and convey unto the Grantee a conservation easement in perpetuity on, over, and across the protected property.

Grantee's rights hereunder shall consist solely of the following:

1. To view the protected property in its natural, scenic, and open condition;
2. To enforce by proceeding at law or in equity the covenants subsequently set forth, including, and in addition to all other enforcement proceedings, proceedings to obtain all penalties and remedies set forth under Division 15-9.0500 of the Unified Development Ordinance of the City of Franklin, as amended from time to time, any violation of the covenants subsequently set forth being and constituting a violation of such Unified Development Ordinance, as amended from time to time, or such local applicable ordinance as may be later adopted or in effect to enforce such covenants or the purposes for which they are made, it being agreed that there shall be no waiver or forfeiture of the Grantee's right to insure compliance with the covenants and conditions of this grant by reason of any prior failure to act; and
3. To enter the protected property at all reasonable times for the purpose of inspecting the protected property to determine if the Grantor is complying with the covenants and conditions of this grant.

And in furtherance of the foregoing affirmative rights of the Grantee, the Grantor makes the following covenants which shall run with and bind the protected property in perpetuity, namely, that, on, over, or across the protected property, the Grantor, without the prior consent of the Grantee, shall not:

1. Construct or place buildings or any structure;
2. Construct or make any improvements, unless, notwithstanding Covenant 1 above, the improvement is specifically and previously approved by the Common Council of the City of Franklin, upon the advice of such other persons, entities, and agencies as it may elect; such improvements as may be so approved being intended to enhance the resource value of the protected property to the environment or the public and including, but not limited to animal and bird feeding stations, park benches, the removal of animal blockage of natural drainage or other occurring blockage of natural drainage, and the like;
3. Excavate, dredge, grade, mine, drill, or change the topography of the land or its natural condition in any manner, including any cutting or removal of vegetation, except for the removal of dead or diseased trees;
4. Conduct any filling, dumping, or depositing of any material whatsoever, including, but not limited to soil, yard waste, or other landscape materials, ashes, garbage, or debris;
5. Plant any vegetation not native to the protected property or not typical wetland vegetation;
6. Operate snowmobiles, dune buggies, motorcycles, all-terrain vehicles or any other types of motorized vehicles.

To have and to hold this conservation easement unto the Grantee forever. Except as expressly limited herein, the Grantor reserves all rights as owner of the protected property, including, but not limited to, the right to use the protected property for all purposes not inconsistent with this grant. Grantor shall be responsible for the payment of all general property taxes levied, assessed, or accruing against the protected property pursuant to law.

The covenants, terms, conditions, and restrictions set forth in this grant shall be binding upon the Grantor and the Grantee and their respective agents, personal representatives, heirs, successors, and assigns, and shall constitute servitudes running with the protected property in perpetuity. This grant may not be amended, except by a writing executed and delivered by Grantor and Grantee or their respective personal representatives, heirs, successors, and assigns. Notices to the parties shall be personally delivered or mailed by U.S. Mail registered mail, return receipt requested, as follows:

To Grantor:
Francis Woods, LLC
5201 E. Terrace Drive
Madison, WI 53718

To Grantee:
City of Franklin
Office of the City Clerk
9229 W. Loomis Road
Franklin, Wisconsin 53132

(Signatures and Acknowledgments Appear on the Following Pages)

In witness whereof, the grantor has caused this instrument to be executed by its duly authorized officers on this date of August ____, 2012.

FRANCIS WOODS, LLC

By: _____

Name: _____

Title: _____

STATE OF WISCONSIN)

) ss

COUNTY OF _____)

Before me personally appeared on the _____ day of August, 2012, _____, as _____ for Francis Woods, LLC and to be known to be the person who executed the foregoing instrument and acknowledged the same as the voluntary act and deed of said corporation.

Notary Public, State of Wisconsin

My commission expires: _____

Acceptance

The undersigned does hereby consent to and accepts the Conservation Easement granted and conveyed to it under and pursuant to the foregoing Grant of Conservation Easement. In consideration of the making of such Grant of Conservation Easement, the undersigned agrees that this acceptance shall be binding upon the undersigned and its successors and assigns and that the restrictions imposed upon the protected property may only be released or waived in writing by the Common Council of the City of Franklin, as contemplated by §236.293 of the Wisconsin Statutes.

In witness whereof, the undersigned has executed and delivered this acceptance on the ____ day of August, 2012.

CITY OF FRANKLIN

By: _____
Thomas M. Taylor, Mayor

By: _____
Sandra L. Wesolowski, City Clerk

STATE OF WISCONSIN)
) ss
COUNTY OF MILWAUKEE)

Personally came before me this _____ day of August, 2012, the above named Thomas M. Taylor, Mayor and Sandra L. Wesolowski, City Clerk, of the above named municipal corporation, City of Franklin, to me known to be such Mayor and City Clerk of said municipal corporation, and acknowledged that they executed the foregoing instrument as such officers as the Deed of said municipal corporation by its authority and pursuant to Resolution No. _____, adopted by its Common Council on the _____ day of _____, 20__.

Notary Public

My commission expires _____

This instrument was drafted by the City of Franklin.

Approved as to contents:

Nicholas Fuchs, Senior Planner
Department of City Development

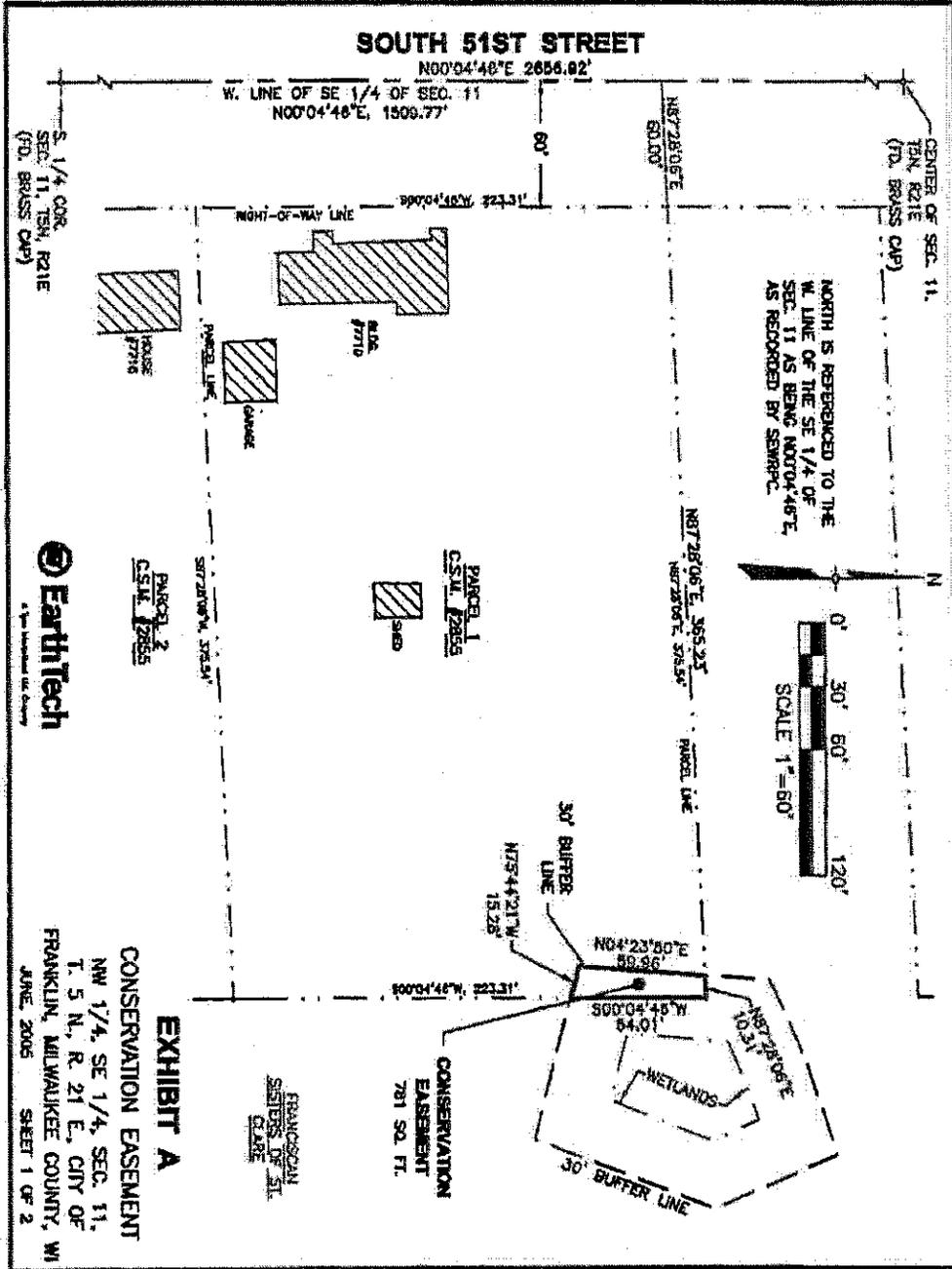
Date Received and Reviewed

Approved as to form only:

Jesse A. Wesolowski,
City Attorney

Date Received and Reviewed

Exhibit A



EASEMENT DESCRIPTION

A parcel of land, being a part of Parcel 1 of Certified Survey Map No. 2855, Milwaukee County Register-of-Deeds office, located in the NW 1/4 of the SE 1/4 of Section 11, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin, being more particularly described as:

Commencing at the South 1/4 corner of said Section 11; thence N00°-04'-46"E, 1509.77 feet; thence N87°28'-05"E, along the north line of said Parcel 1 and its extension, 425.23 feet, to the Point of Beginning of this description. Thence continuing N87°-28'-05"E, 10.31 feet to the Northeast corner of said Parcel 1; thence S00°-04'-45"W, 64.01 feet; thence N75°-44'-21"W, 15.28 feet; thence N04°-23'-50"E, 59.96 feet to the Point of Beginning and the end of this description.

Containing 781 square feet.

EXHIBIT A

CONSERVATION EASEMENT
NW 1/4, SE 1/4, SEC. 11,
T. 5 N., R. 21 E., CTRY OF
FRANKLIN, MILWAUKEE COUNTY, WI
JUNE, 2005 SHEET 2 OF 2



A You Can't Measure Us Company