

## **PROFESSIONAL SERVICES**

### **26. Approve Ranking List, Authorize Negotiations and Award PS-0984-06/TLR – Regional Stormwater Facilities (RSF) Treatment Efficiency Monitoring and Assessment Master Agreement to Environmental Research & Design, Inc. of Orlando.**

PS-0984-06/TLR will provide analysis of the pollutant removal efficiencies for the County's Regional Stormwater Facilities which is a requirement of the FDEP Florida Forever 319 and other state funding and grants. This information will also be used in the calculation of pollutant load reductions for impaired water bodies as defined by the FDEP Impaired Waters Rule and Total Maximum Daily Load (TMDL) program.

This project was publicly advertised and the County received three submittals (listed alphabetically):

- Camp Dresser & McKee, Inc, Maitland;
- Environmental Research & Design, Inc., Orlando;
- ZFI Engineering & Construction, Inc., Orlando.

The Evaluation Committee, which consisted of Gloria Eby, Sr. Coordinator; Mark Flomerfelt, P.E., Capital Projects; Kim Ornberg, Principal Engineer; and Shannon Wetzel, Principal Scientist evaluated the submittals and agreed to interview all three firms.

Consideration was given to the following criteria:

- Project Approach/Understanding;
- Methodology;
- Final Outcome Reporting Examples;
- Quality of Presentation.

The Evaluation Committee recommends that the Board approve the ranking below and authorize staff to negotiate with the top ranked firm in accordance with F.S. 287.055, the Consultants Competitive Negotiation Act (CCNA):

1. Environmental Research & Design, Inc., Orlando;
2. Camp Dresser & McKee, Inc., Maitland;
3. ZFI Engineering & Construction, Inc., Orlando.

Authorization for performance of services by the Consultant under this agreement shall be in the form of written Work Orders issued and executed by the County and signed by the Consultant. The work and dollar amount for each Work Order will be within the constraints of the approved project

budget and negotiated on an as-needed basis for the project. The estimated contract value is \$350,000 per year for a five year term.

Public Works/Roads-Stormwater and Fiscal Services/Purchasing and Contracts Division recommend that the Board approve the ranking, authorize staff to negotiate and authorize the County Manager to execute a Master Agreement as prepared by the County Attorney's Office.

budget and negotiated on an as-needed basis for the project. The estimated contract value is \$350,000 per year for a five year term.

Public Works/Roads-Stormwater and Fiscal Services/Purchasing and Contracts Division recommend that the Board approve the ranking, authorize staff to negotiate and authorize the County Manager to execute a Master Agreement as prepared by the County Attorney's Office.

**B.C.C. - SEMINOLE COUNTY, FL  
PS TABULATION SHEET**

BID NUMBER: PS-0984-06/TLR

BID TITLE : Regional Stormwater Facilities (RSF)  
Treatment Efficiency Monitoring and  
Assessment

ALL SUBMITTALS ACCEPTED BY SEMINOLE COUNTY ARE SUBJECT TO THE COUNTY'S TERMS AND CONDITIONS AND ANY AND ALL ADDITIONAL TERMS AND CONDITIONS SUBMITTED BY THE PROPOSERS ARE REJECTED AND SHALL HAVE NO FORCE AND EFFECT. PS DOCUMENTS FROM THE PROPOSERS LISTED HEREIN ARE THE ONLY SUBMITTALS RECEIVED TIMELY AS OF THE ABOVE OPENING DATE AND TIME. ALL OTHER PS DOCUMENTS SUBMITTED IN RESPONSE TO THIS SOLICITATION, IF ANY, ARE HEREBY REJECTED AS LATE.

DATE: May 31, 2006 TIME: 2:00 P.M.

Response #1	Response #2	Response #3
Camp Dresser & McKee, Inc. (CDM) 2301 Maitland Ctr. Pkwy, Suite 300 Maitland, FL 32751 Ph. 407 660-2552 Fx. 407 875-1161 Brian W. Mack, P.E., Associate	Environmental Research & Design, Inc. 3419 Trentwood Blvd., Suite 102 Orlando, FL 32812 Ph. 407 855-9465 Fx. 407 826-0419 Harvey H. Harper, III, Ph.D., P.E., President	ZFI Engineering & Construction, Inc. 3251 Progress Dr., Suite A Orlando, FL 32826 Ph. 407 281-1100 Fx. 407 281-1108 George Guo, President & CEO

Tabulated by: **T. Roberts, CPPB, Sr. Contracts Analyst**  
**Posted May 31, 2006**

Evaluation Committee Meeting: **06/09/06 @ 10am, Engineering Division**

Presentations: **06/28/06 @ 9:30am, Engineering Division, Wekiva Conference Room, 520 W. Lake Mary Blvd., Sanford.**

Recommendation: Environmental Research & Design, Inc

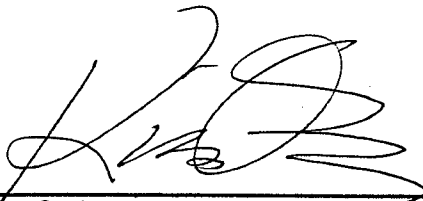
To BCC for Award: July 25, 2006

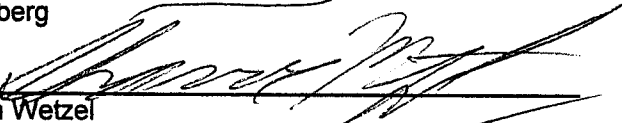
PRESENTATION RANKING  
PS-0984-06/TLR- RSF Treatment Efficiency Monitoring and Assessment

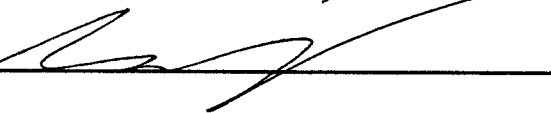
	K. Ornberg	S. Wetzel	G. Eby	M. Flomerfelt	TOTAL POINTS	RANKING
CDM	2	2	2	2	8	2
ENVIRONMENTAL RESEARCH	1	1	1	1	4	1
ZFI ENGINEERING	3	3	3	3	12	3


The Evaluation Committee recommends award to:

Environmental Research

  
\_\_\_\_\_  
Kim Ornberg

  
\_\_\_\_\_  
Shannon Wetzel

  
\_\_\_\_\_  
Gloria Eby

 6/28/02  
\_\_\_\_\_  
Mark Flomerfelt

\_\_\_\_\_

**PRESENTATION**  
**PS-0984-06/TLR – Regional Stormwater Facilities (RSF)**  
**Treatment Efficiency Monitoring and Assessment**

SUBMITTAL COMPANY NAME: CDM

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

- |          |  |
|----------|--|
| 90 – 100 | Outstanding, out-of-the-box, Innovative, Cost/Time Savings |
| 80 – 89  | Excellent, Very Good, Solid in all respects.               |
| 70 – 79  | Good, No major weaknesses, Fully Acceptable as is          |
| 60 – 69  | Marginal, Weak, Workable but needs clarifications          |
| Below 60 | Unacceptable, Needs major help to be acceptable            |

Describe strengths, weaknesses and deficiencies to support your assessment.

Criteria: Project Approach Understanding (40%)

UCF - field sampling; decision science matrix; software decision tool  
(what if's); 2-4 week res. time; target time; sample # events;  
enhancements: aeration, littoral zone, chemical

Score 90  
(100-0)

Criteria: Methodology (30%)

EMC data Ferric Sulfate  
equipment - innovative  
irrigation (SW reuse); UCF students  
rough river.com

Score 85  
(100-0)

Criteria: Final outcome with examples (20%)

NPDES / Jesup trips

Score 90  
(100-0)

Criteria: Quality of Presentation (10%)

Very good

Score 90  
(100-0)

TOTAL SCORE (100-0 Points)

88.5

RANKING

2

QUALIFICATION COMMITTEE MEMBER:

Kim Ornberg

**PRESENTATION**  
**PS-0984-06/TLR – Regional Stormwater Facilities (RSF)**  
**Treatment Efficiency Monitoring and Assessment**

SUBMITTAL COMPANY NAME: ERD

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

- |          |  |
|----------|--|
| 90 – 100 | Outstanding, out-of-the-box, Innovative, Cost/Time Savings |
| 80 – 89  | Excellent, Very Good, Solid in all respects.               |
| 70 – 79  | Good, No major weaknesses, Fully Acceptable as is          |
| 60 – 69  | Marginal, Weak, Workable but needs clarifications          |
| Below 60 | Unacceptable, Needs major help to be acceptable            |

Describe strengths, weaknesses and deficiencies to support your assessment.

Criteria: Project Approach Understanding (40%)

Complete understanding + thorough knowledge  
of project; extensive details on methodology

Score 95  
(100-0)

Criteria: Methodology (30%)

all internal resources: lab, field staff, eqpt  
lab: specialized low level mol

Score 95  
(100-0)

Criteria: Final outcome with examples (20%)

several examples

Score 90  
(100-0)

Criteria: Quality of Presentation (10%)

very thorough + very well presented

Score 90  
(100-0)

TOTAL SCORE (100-0 Points)

93.5

RANKING

1

QUALIFICATION COMMITTEE MEMBER:

Kim Ornberg

**PRESENTATION**  
**PS-0984-06/TLR – Regional Stormwater Facilities (RSF)**  
**Treatment Efficiency Monitoring and Assessment**

**SUBMITTAL COMPANY NAME:** ZFI

**INSTRUCTIONS:** Score each criterion from 1 to 100 based on the following general guidelines:

- |          |  |
|----------|--|
| 90 – 100 | Outstanding, out-of-the-box, Innovative, Cost/Time Savings |
| 80 – 89  | Excellent, Very Good, Solid in all respects.               |
| 70 – 79  | Good, No major weaknesses, Fully Acceptable as is          |
| 60 – 69  | Marginal, Weak, Workable but needs clarifications          |
| Below 60 | Unacceptable, Needs major help to be acceptable            |

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach Understanding (40%)**

monitoring plan very thorough

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**Score** 75  
(100-0)

**Criteria: Methodology (30%)**

flow rating - cost effective method for measurement  
field work / construction - in-house  
focus on flow - propose routine grab samples

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**Score** 80  
(100-0)

**Criteria: Final outcome with examples (20%)**

EAA-SFWMD; Jesup -

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**Score** 80  
(100-0)

**Criteria: Quality of Presentation (10%)**

very good presentation

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**Score** 85  
(100-0)

**TOTAL SCORE (100-0 Points)**

78.5

**RANKING**

3

**QUALIFICATION COMMITTEE MEMBER:** Kim Ornberg



**PRESENTATION**  
**PS-0984-06/TLR – Regional Stormwater Facilities (RSF)**  
**Treatment Efficiency Monitoring and Assessment**

SUBMITTAL COMPANY NAME: CDM

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

- |          |  |
|----------|--|
| 90 – 100 | Outstanding, out-of-the-box, Innovative, Cost/Time Savings |
| 80 – 89  | Excellent, Very Good, Solid in all respects.               |
| 70 – 79  | Good, No major weaknesses, Fully Acceptable as is          |
| 60 – 69  | Marginal, Weak, Workable but needs clarifications          |
| Below 60 | Unacceptable, Needs major help to be acceptable            |

Describe strengths, weaknesses and deficiencies to support your assessment.

Criteria: Project Approach Understanding (40%)

CDM demonstrates knowledge in the variability of storm event efficiency  
further defining project approach and understanding.  
At the end Knowledge of Florida BMP Database, CDM is contacted by FDOT  
as a reviewer.

Score 98 =  
(100-0)

Criteria: Methodology (30%)

Clearly defined - provided troubleshooting reports in  
detail with auto sampling programs.

Score 100 = 30  
(100-0)

Criteria: Final outcome with examples (20%)

Knowledge of local area & demonstrates importance of EMC's to  
County. Ability to target poor efficiency with potential  
enhancements to RSFs. No cost savings in sampling equipment  
options.

Score 98 =  
(100-0)

Criteria: Quality of Presentation (10%)

Presented very well.

Score 98 =  
(100-0)

TOTAL SCORE (100-0 Points)

98.6

RANKING

2

QUALIFICATION COMMITTEE MEMBER:

JLoria Eby

**PRESENTATION**  
**PS-0984-06/TLR – Regional Stormwater Facilities (RSF)**  
**Treatment Efficiency Monitoring and Assessment**

SUBMITTAL COMPANY NAME: ERD

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

- |          |  |
|----------|--|
| 90 – 100 | Outstanding, out-of-the-box, Innovative, Cost/Time Savings |
| 80 – 89  | Excellent, Very Good, Solid in all respects.               |
| 70 – 79  | Good, No major weaknesses, Fully Acceptable as is          |
| 60 – 69  | Marginal, Weak, Workable but needs clarifications          |
| Below 60 | Unacceptable, Needs major help to be acceptable            |

Describe strengths, weaknesses and deficiencies to support your assessment.

Criteria: Project Approach Understanding (40%)

ERD clearly defined project approach in presentation. Appropriate  
equipment, based ERPs; quantification of hydrologic project monitoring  
shown based on local conditions. Understanding of the local BMPs;  
& Ready monitoring strategies to accurately characterize the  
Chemistry of inflow flows.  
Score 100  
(100-0)

Criteria: Methodology (30%)

Methodology clearly defined methodology to be used from  
start to finish as well as troubleshooting and auditing of  
each aspect of the project.

Score 100 = 30  
(100-0)

Criteria: Final outcome with examples (20%)

Field, lab, equipment is all under one house → ERD. ERD  
can provide all aspects of efficiency monitoring. Specialization  
in advanced. Little quality research and design. Laboratory (ERD)  
is capable of of sediment separation in house unlike other laboratories.  
providing cost savings for the county.  
Score 100 = 20  
(100-0)

Criteria: Quality of Presentation (10%)

ERD's presentation provided clear picture of project.

Score 10 = 10  
(100-0)

TOTAL SCORE (100-0 Points)

100

RANKING

1

QUALIFICATION COMMITTEE MEMBER: Gloria Ebe

**PRESENTATION**  
**PS-0984-06/TLR – Regional Stormwater Facilities (RSF)**  
**Treatment Efficiency Monitoring and Assessment**

SUBMITTAL COMPANY NAME: ZFI

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

- |          |  |
|----------|--|
| 90 – 100 | Outstanding, out-of-the-box, Innovative, Cost/Time Savings |
| 80 – 89  | Excellent, Very Good, Solid in all respects.               |
| 70 – 79  | Good, No major weaknesses, Fully Acceptable as is          |
| 60 – 69  | Marginal, Weak, Workable but needs clarifications          |
| Below 60 | Unacceptable, Needs major help to be acceptable            |

Describe strengths, weaknesses and deficiencies to support your assessment.

Criteria: Project Approach Understanding (40%)

Project Approach / Understanding defined to the capabilities  
of the company.

Score 90  
(100-0)

Criteria: Methodology (30%)

Methodology well defined using State SOP's

Score 100  
(100-0)

Criteria: Final outcome with examples (20%)

Specific Projects dealing with Auto-sampling projects Management  
not demonstrated.

Score 85  
(100-0)

Criteria: Quality of Presentation (10%)

Capability of monitoring upcoming RSF's which are permit  
driven but clearly defined.

Score 95  
(100-0)

TOTAL SCORE (100-0 Points)

92.5  
3

RANKING

QUALIFICATION COMMITTEE MEMBER: Gloria Eby

**PRESENTATION**  
**PS-0984-06/TLR – Regional Stormwater Facilities (RSF)**  
**Treatment Efficiency Monitoring and Assessment**

**SUBMITTAL COMPANY NAME:** CDM

**INSTRUCTIONS:** Score each criterion from 1 to 100 based on the following general guidelines:

- |          |  |
|----------|--|
| 90 – 100 | Outstanding, out-of-the-box, Innovative, Cost/Time Savings |
| 80 – 89  | Excellent, Very Good, Solid in all respects.               |
| 70 – 79  | Good, No major weaknesses, Fully Acceptable as is          |
| 60 – 69  | Marginal, Weak, Workable but needs clarifications          |
| Below 60 | Unacceptable, Needs major help to be acceptable            |

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach Understanding (40%)**

DECISION SCIENCE APPLIED PRIOR TO SAMPLING  
GOOD UNDERSTANDING OF PROJECT APPROACH

**Score** 90  
(100-0)

**Criteria: Methodology (30%)**

UCF SUPPORT - SAMPLE PICK-UP  
DECISION TREE CAN INCORPORATE ECONOMICS IN ADDITION TO EMC'S  
MULTIPLE GROUPS INVOLVED - MAY EFFECT COMMUNICATION

**Score** 85  
(100-0)

**Criteria: Final outcome with examples (20%)**

WILL RECOMMEND POTENTIAL ENHANCEMENTS  
NO SPECIFIC EXAMPLES

**Score** 85  
(100-0)

**Criteria: Quality of Presentation (10%)**

GOOD OVERALL PRESENTATION BUT LACKING  
SPECIFICS

**Score** 90  
(100-0)

**TOTAL SCORE (100-0 Points)**

350 87.5

**RANKING**

2

**QUALIFICATION COMMITTEE MEMBER:** SHANNON WETZEL

Shannon Wetzels

**PRESENTATION**  
**PS-0984-06/TLR – Regional Stormwater Facilities (RSF)**  
**Treatment Efficiency Monitoring and Assessment**

**SUBMITTAL COMPANY NAME:** ERD

**INSTRUCTIONS:** Score each criterion from 1 to 100 based on the following general guidelines:

- |          |  |
|----------|--|
| 90 – 100 | Outstanding, out-of-the-box, Innovative, Cost/Time Savings |
| 80 – 89  | Excellent, Very Good, Solid in all respects.               |
| 70 – 79  | Good, No major weaknesses, Fully Acceptable as is          |
| 60 – 69  | Marginal, Weak, Workable but needs clarifications          |
| Below 60 | Unacceptable, Needs major help to be acceptable            |

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach Understanding (40%)**

- ERD IS SPECIALIZED IN HIGH QUALITY PROJECTS
- ALL STAFF AND EQUIPMENT IS INTERNAL - KEY IN COMMUNICATION

**Score** 95  
(100-0)

**Criteria: Methodology (30%)**

- DETAILED UNDERSTANDING OF LOGISTICS
- SAMPLING EQUIPMENT DESIGNED TO ADDRESS SPECIFIC POLLUTANTS, UTILIZING SOP'S - ERD RESPONSIBLE FOR EQUIPMENT MAINTENANCE

**Score** 98  
(100-0)

**Criteria: Final outcome with examples (20%)**

- GAVE GOOD EXAMPLES OF SPECIFIC PROJECTS CONDUCTED IN PALM BEACH COUNTY
- A NUMBER OF PAST EXPERIENCES - PROJECT SPECIFIC

**Score** 95  
(100-0)

**Criteria: Quality of Presentation (10%)**

- VERY CLEAR AND CONCISE PRESENTATION ADDRESSING ALL ASPECTS OF PROJECT.

**Score** 95  
(100-0)

**TOTAL SCORE (100-0 Points)**

382 **95.9**

**RANKING**

1

**QUALIFICATION COMMITTEE MEMBER:** SHANNON WETZEL

*[Signature]*

**PRESENTATION**  
**PS-0984-06/TLR – Regional Stormwater Facilities (RSF)**  
**Treatment Efficiency Monitoring and Assessment**

**SUBMITTAL COMPANY NAME:** ZFI

**INSTRUCTIONS:** Score each criterion from 1 to 100 based on the following general guidelines:

- |          |  |
|----------|--|
| 90 – 100 | Outstanding, out-of-the-box, Innovative, Cost/Time Savings |
| 80 – 89  | Excellent, Very Good, Solid in all respects.               |
| 70 – 79  | Good, No major weaknesses, Fully Acceptable as is          |
| 60 – 69  | Marginal, Weak, Workable but needs clarifications          |
| Below 60 | Unacceptable, Needs major help to be acceptable            |

**Describe strengths, weaknesses and deficiencies to support your assessment.**

**Criteria: Project Approach Understanding (40%)**

GOOD UNDERSTANDING OF PROJECT APPROACH  
IDENTIFIED CRITICAL ISSUES

**Score** 90  
(100-0)

**Criteria: Methodology (30%)**

PROVIDED DETAILED LOGISTICS INCLUDING CAP (HDD)  
- HAS ALL EQUIPMENT IN HOUSE AND WILL BE RESPONSIBLE FOR MATERIALS  
- LIMITED CREWS AND EXPERIENCE WITH SAMPLING

**Score** 80  
(100-0)

**Criteria: Final outcome with examples (20%)**

PROVIDED DETAILED LIST OF PROJECT PRODUCTS  
- NOT A LOT OF EXPERIENCE WITH WATER QUALITY SAMPLING

**Score** 85  
(100-0)

**Criteria: Quality of Presentation (10%)**

GOOD OVERALL PRESENTATION

**Score** 90  
(100-0)

**TOTAL SCORE (100-0 Points)**

345 86

**RANKING**

3

**QUALIFICATION COMMITTEE MEMBER:**

SHANNON WETZEL  
[Signature]

**PRESENTATION**  
**PS-0984-06/TLR – Regional Stormwater Facilities (RSF)**  
**Treatment Efficiency Monitoring and Assessment**

SUBMITTAL COMPANY NAME: CDM 6/28/06

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

- |          |  |
|----------|--|
| 90 – 100 | Outstanding, out-of-the-box, Innovative, Cost/Time Savings |
| 80 – 89  | Excellent, Very Good, Solid in all respects.               |
| 70 – 79  | Good, No major weaknesses, Fully Acceptable as is          |
| 60 – 69  | Marginal, Weak, Workable but needs clarifications          |
| Below 60 | Unacceptable, Needs major help to be acceptable            |

Describe strengths, weaknesses and deficiencies to support your assessment.

Criteria: Project Approach Understanding (40%)

Optimize effectiveness – for strategic  
W.Q. Planning Decisions

R. W. Wagner – PM with oversight  
Leather setup equipment program  
Score 88  
(100-0)

Criteria: Methodology (30%)

organized approach for final selection  
of Bmp  
Reviewed Variability of PWS efficiency  
Score 86  
(100-0)

Criteria: Final outcome with examples (20%)

Rough Run Project  
Swamp Project in Kissimmee  
Score 86  
(100-0)

Criteria: Quality of Presentation (10%)

Good Presentation  
Score 90  
(100-0)

TOTAL SCORE (100-0 Points)

87.2

RANKING

2

QUALIFICATION COMMITTEE MEMBER: [Signature] 6/28/06

**PRESENTATION**  
**PS-0984-06/TLR – Regional Stormwater Facilities (RSF)**  
**Treatment Efficiency Monitoring and Assessment**

SUBMITTAL COMPANY NAME:

ERD

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

- |          |  |
|----------|--|
| 90 – 100 | Outstanding, out-of-the-box, Innovative, Cost/Time Savings |
| 80 – 89  | Excellent, Very Good, Solid in all respects.               |
| 70 – 79  | Good, No major weaknesses, Fully Acceptable as is          |
| 60 – 69  | Marginal, Weak, Workable but needs clarifications          |
| Below 60 | Unacceptable, Needs major help to be acceptable            |

Describe strengths, weaknesses and deficiencies to support your assessment.

All work in house

Criteria: Project Approach Understanding (40%)

maximize monitoring program, Due to type of pollutant

Hydrologic Bureau's model info

Score 92  
(100-0)

Criteria: Methodology (30%)

must look at Base Flow

collected sample must estimate QML

Score 88  
(100-0)

Criteria: Final outcome with examples (20%)

city of Palm Bay contract

LAKE Okechobee Baffle Box CDS test site

Score 89  
(100-0)

Criteria: Quality of Presentation (10%)

GOOD Presentation

Score 92  
(100-0)

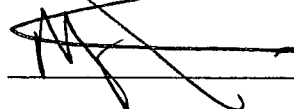
TOTAL SCORE (100-0 Points)

90.2

RANKING

1

QUALIFICATION COMMITTEE MEMBER:

 6/22/06



**PRESENTATION**  
**PS-0984-06/TLR – Regional Stormwater Facilities (RSF)**  
**Treatment Efficiency Monitoring and Assessment**

SUBMITTAL COMPANY NAME: ZFI

INSTRUCTIONS: Score each criterion from 1 to 100 based on the following general guidelines:

- 90 – 100 Outstanding, out-of-the-box, Innovative, Cost/Time Savings
- 80 – 89 Excellent, Very Good, Solid in all respects.
- 70 – 79 Good, No major weaknesses, Fully Acceptable as is
- 60 – 69 Marginal, Weak, Workable but needs clarifications
- Below 60 Unacceptable, Needs major help to be acceptable

*Test Results*

*Good*  
Describe strengths, weaknesses and deficiencies to support your assessment.

Criteria: Project Approach Understanding (40%)

well Thorough General Project Score  
w/ Detailed Review  
Verify Flow Rate for Accurate Flow  
Mass Balance

Score 84  
(100-0)

Criteria: Methodology (30%)

Site Location for Instrumentation Process  
Do Installation w/ Inhouse Crews  
ISCO Samplers w/ AMI

Score 82  
(100-0)

Criteria: Final outcome with examples (20%)

Several Everglades Projects  
and LC San Marcos  
Also Do Heavy Construction

Score 75  
(100-0)

Criteria: Quality of Presentation (10%)

Good Presentation

Score 85  
(100-0)

TOTAL SCORE (100-0 Points)

81.7

RANKING

3

QUALIFICATION COMMITTEE MEMBER:

*Muller* 6/28/06

**CONSULTANT SERVICES AGREEMENT (PS-0984-06/TLR)  
REGIONAL STORMWATER FACILITY TREATMENT EFFECTIVENESS  
AND OPTIMAL EFFICIENCY MONITORING**

**THIS AGREEMENT** is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between **ENVIRONMENTAL RESEARCH & DESIGN, INC.**, duly authorized to conduct business in the State of Florida, whose address is 3419 Trentwood Boulevard, Suite 102, Orlando, Florida 32812, hereinafter called the "CONSULTANT" and **SEMINOLE COUNTY**, a political subdivision of the State of Florida, whose address is Seminole County Services Building, 1101 East First Street, Sanford, Florida 32771, hereinafter called the "COUNTY".

**W I T N E S S E T H:**

**WHEREAS**, the COUNTY desires to retain the services of a competent and qualified consultant to provide regional stormwater facility treatment effectiveness and optimal efficiency monitoring in Seminole County; and

**WHEREAS**, the COUNTY has requested and received expressions of interest for the retention of services of consultants; and

**WHEREAS**, the CONSULTANT is competent and qualified to furnish professional services to the COUNTY and desires to provide professional services according to the terms and conditions stated herein,

**NOW, THEREFORE**, in consideration of the mutual understandings and covenants set forth herein, the COUNTY and the CONSULTANT agree as follows:

**SECTION 1. SERVICES.** The COUNTY does hereby retain the CONSULTANT to furnish professional services and perform those tasks as further described in the Scope of Services attached hereto as Exhibit "A" and made a part hereof. Required services shall be specifically enumerated, described and depicted in the Work Orders authorizing performance of the specific project, task or study. This Agreement

standing alone does not authorize the performance of any work or require the COUNTY to place any orders for work.

**SECTION 2. TERM.** This Agreement shall take effect on the date of its execution by the COUNTY and shall run for a period of five (5) years and, at the sole option of COUNTY, may be renewed for one (1) successive periods not to exceed five (5) years. Expiration of the term of this Agreement shall have no effect upon Work Orders issued pursuant to this Agreement and prior to the expiration date. Obligations entered therein by both parties shall remain in effect until completion of the work authorized by the Work Order.

**SECTION 3. AUTHORIZATION FOR SERVICES.** Authorization for performance of professional services by the CONSULTANT under this Agreement shall be in the form of written Work Orders issued and executed by the COUNTY and signed by the CONSULTANT. A sample Work Order is attached hereto as Exhibit "B". Each Work Order shall describe the services required, state the dates for commencement and completion of work and establish the amount and method of payment. The Work Orders will be issued under and shall incorporate the terms of this Agreement. The COUNTY makes no covenant or promise as to the number of available projects, nor that, the CONSULTANT will perform any project for the COUNTY during the life of this Agreement. The COUNTY reserves the right to contract with other parties for the services contemplated by this Agreement when it is determined by the COUNTY to be in the best interest of the COUNTY to do so.

**SECTION 4. TIME FOR COMPLETION.** The services to be rendered by the CONSULTANT shall be commenced, as specified in such Work Orders as may be issued hereunder, and shall be completed within the time specified therein. In the event the COUNTY determines that significant benefits would accrue from expediting an otherwise established time

schedule for completion of services under a given Work Order, that Work Order may include a negotiated schedule of incentives based on time savings.

**SECTION 5. COMPENSATION.** The COUNTY agrees to compensate the CONSULTANT for the professional services called for under this Agreement on either a "Fixed Fee Basis" or on a "Time Basis Method". If a Work Order is issued under a "Time Basis Method," then CONSULTANT shall be compensated in accordance with the rate schedule attached as Exhibit "C". If a Work Order is issued for a "Fixed Fee Basis", then the applicable Work Order Fixed Fee amount shall include any and all reimbursable expenses.

**SECTION 6. REIMBURSABLE EXPENSES.** If a Work Order is issued on a "Time Basis Method," then reimbursable expenses are in addition to the hourly rates. Reimbursable expenses are subject to the applicable "Not-to-Exceed" or "Limitation of Funds" amount set forth in the Work Order. Reimbursable expenses may include actual expenditures made by the CONSULTANT, his employees or his professional associates in the interest of the Project for the expenses listed in the following paragraphs:

(a) Expenses of transportation, when traveling in connection with the Project, based on Sections 112.061(7) and (8), Florida Statutes, or their successor; long distance calls and telegrams; and fees paid for securing approval of authorities having jurisdiction over the Project.

(b) Expense of reproductions, postage and handling of drawings and specifications.

(c) If authorized in writing in advance by the COUNTY, the cost of other expenditures made by the CONSULTANT in the interest of the Project.

## **SECTION 7. PAYMENT AND BILLING.**

(a) If the Scope of Services required to be performed by a Work Order is clearly defined, the Work Order shall be issued on a "Fixed Fee Basis". The CONSULTANT shall perform all work required by the Work Order but, in no event, shall the CONSULTANT be paid more than the negotiated Fixed Fee amount stated therein.

(b) If the Scope of Services is not clearly defined, the Work Order may be issued on a "Time Basis Method" and contain a Not-to Exceed amount. If a Not-to-Exceed amount is provided, the CONSULTANT shall perform all work required by the Work Order; but, in no event, shall the CONSULTANT be paid more than the Not-to-Exceed amount specified in the applicable Work Order.

(c) If the Scope of Services is not clearly defined, the Work Order may be issued on a "Time Basis Method" and contain a Limitation of Funds amount. The CONSULTANT is not authorized to exceed that amount without the prior written approval of the COUNTY. Said approval, if given by the COUNTY, shall indicate a new Limitation of Funds amount. The CONSULTANT shall advise the COUNTY whenever the CONSULTANT has incurred expenses on any Work Order that equals or exceeds eighty percent (80%) of the Limitation of Funds amount.

(d) For Work Orders issued on a "Fixed Fee Basis", the CONSULTANT may invoice the amount due based on the percentage of total Work Order services actually performed and completed; but, in no event, shall the invoice amount exceed a percentage of the Fixed Fee amount equal to a percentage of the total services actually completed. The COUNTY shall pay the CONSULTANT ninety percent (90%) of the approved amount on Work Orders issued on a "Fixed Fee Basis".

(e) For Work Orders issued on a "Time Basis Method" with a Not-to-Exceed amount, the CONSULTANT may invoice the amount due for actual

work hours performed but, in no event, shall the invoice amount exceed a percentage of the Not-to-Exceed amount equal to a percentage of the total services actually completed. The COUNTY shall pay the CONSULTANT ninety percent (90%) of the approved amount on Work Orders issued on a "Time Basis Method" with a Not-to-Exceed amount.

(f) Each Work Order issued on a "Fixed Fee Basis" or "Time Basis Method" with a Not-to-Exceed amount shall be treated separately for retainage purposes. If the COUNTY determines that work is substantially complete and the amount retained is considered to be in excess, the COUNTY may, at its sole and absolute discretion, release the retainage or any portion thereof.

(g) For Work Orders issued on a "Time Basis Method" with a Limitation of Funds amount, the CONSULTANT may invoice the amount due for services actually performed and completed. The COUNTY shall pay the CONSULTANT one hundred percent (100%) of the approved amount on Work Orders issued on a "Time Basis Method" with a Limitation of Funds amount.

(h) Payments shall be made by the COUNTY to the CONSULTANT when requested as work progresses for services furnished, but not more than once monthly. Each Work Order shall be invoiced separately. CONSULTANT shall render to COUNTY, at the close of each calendar month, an itemized invoice properly dated, describing any services rendered, the cost of the services, the name and address of the CONSULTANT, Work Order Number, Contract Number and all other information required by this Agreement.

The original invoice and one (1) copy shall be sent to:

Director of County Finance  
Seminole County Board of County Commissioners  
Post Office Box 8080  
Sanford, Florida 32772

Two (2) duplicate copies of the invoice shall be sent to:

Public Works Department  
520 W. Lake Mary Boulevard, Suite 200  
Sanford, Florida 32773

(i) Payment shall be made after review and approval by COUNTY within thirty (30) days of receipt of a proper invoice from the CONSULTANT.

**SECTION 8. GENERAL TERMS OF PAYMENT AND BILLING.**

(a) Upon satisfactory completion of work required hereunder and, upon acceptance of the work by the COUNTY, the CONSULTANT may invoice the COUNTY for the full amount of compensation provided for under the terms of this Agreement including any retainage and less any amount already paid by the COUNTY. The COUNTY shall pay the CONSULTANT within thirty (30) days of receipt of proper invoice.

(b) The COUNTY may perform or have performed an audit of the records of the CONSULTANT after final payment to support final payment hereunder. This audit would be performed at a time mutually agreeable to the CONSULTANT and the COUNTY subsequent to the close of the final fiscal period in which the last work is performed. Total compensation to the CONSULTANT may be determined subsequent to an audit as provided for in subsections (b) and (c) of this Section, and the total compensation so determined shall be used to calculate final payment to the CONSULTANT. Conduct of this audit shall not delay final payment as provided by subsection (a) of this Section.

(c) In addition to the above, if federal funds are used for any work under the Agreement, the Department of Housing and Urban Development, the Comptroller General of the United States, or any of their duly authorized representatives, shall have access to any books, documents, papers, and records, of the CONSULTANT which are directly pertinent to work performed under this Agreement for purposes of making audit, examination, excerpts and transcriptions.

(d) The CONSULTANT agrees to maintain all books, documents, papers, accounting records and other evidences pertaining to work performed under this Agreement in such a manner as will readily conform to the terms of this Agreement and to make such materials available at the CONSULTANT's office at all reasonable times during the Agreement period and for five (5) years from the date of final payment under the contract for audit or inspection as provided for in subsections (b) and (c) of this Section.

(e) In the event any audit or inspection conducted after final payment, but within the period provided in paragraph (d) of this Section reveals any overpayment by the COUNTY under the terms of the Agreement, the CONSULTANT shall refund such overpayment to the COUNTY within thirty (30) days of notice by the COUNTY.

#### **SECTION 9. RESPONSIBILITIES OF THE CONSULTANT.**

(a) The CONSULTANT shall be responsible for the professional quality, technical accuracy, competence, methodology, accuracy and the coordination of all of the following which are listed for illustration purposes and not as a limitation: documents, analysis, reports, data, plans, plats, maps, surveys, specifications, and any and all other services of whatever type or nature furnished by the CONSULTANT under this Agreement. The CONSULTANT shall, without additional compensation, correct or revise any errors or deficiencies in his plans, analysis, data, reports, designs, drawings, specifications, and any and all other services of whatever type or nature.

(b) Neither the COUNTY's review, approval or acceptance of, nor payment for, any of the services required shall be construed to operate as a waiver of any rights under this Agreement nor of any cause of action arising out of the performance of this Agreement and the CONSULTANT shall be and always remain liable to the COUNTY in accordance



with applicable law for any and all damages to the COUNTY caused by the CONSULTANT's negligent or wrongful performance of any of the services furnished under this Agreement.

**SECTION 10. OWNERSHIP OF DOCUMENTS.** All deliverable analysis, reference data, survey data, plans and reports or any other form of written instrument or document that may result from the CONSULTANT's services or have been created during the course of the CONSULTANT's performance under this Agreement shall become the property of the COUNTY after final payment is made to the CONSULTANT.

**SECTION 11. TERMINATION.**

(a) The COUNTY may, by written notice to the CONSULTANT terminate this Agreement or any Work Order issued hereunder, in whole or in part, at any time, either for the COUNTY's convenience or because of the failure of the CONSULTANT to fulfill its Agreement obligations. Upon receipt of such notice, the CONSULTANT shall:

(1) immediately discontinue all services affected unless the notice directs otherwise, and

(2) deliver to the COUNTY all data, drawings, specifications, reports, estimates, summaries, and any and all such other information and materials of whatever type or nature as may have been accumulated by the CONSULTANT in performing this Agreement, whether completed or in process.

(b) If the termination is for the convenience of the COUNTY, the CONSULTANT shall be paid compensation for services performed to the date of termination. If this Agreement calls for the payment based on a Fixed Fee amount, the CONSULTANT shall be paid no more than a percentage of the Fixed Fee amount equivalent to the percentage of the completion of work, as determined solely and conclusively by the COUNTY, contemplated by this Agreement.

(c) If the termination is due to the failure of the CONSULTANT to fulfill its Agreement obligations, the COUNTY may take over the work and prosecute the same to completion by other Agreements or otherwise. In such case, the CONSULTANT shall be liable to the COUNTY for all reasonable additional costs occasioned to the COUNTY thereby. The CONSULTANT shall not be liable for such additional costs if the failure to perform the Agreement arises without any fault or negligence of the CONSULTANT; provided, however, that the CONSULTANT shall be responsible and liable for the actions of its subcontractors, agents, employees and persons and entities of a similar type or nature. Such causes may include acts of God or of the public enemy, acts of the COUNTY in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; but, in every case, the failure to perform must be beyond the control and without any fault or negligence of the CONSULTANT.

(d) If, after notice of termination for failure to fulfill its Agreement obligations, it is determined that the CONSULTANT had not so failed, the termination shall be conclusively deemed to have been effected for the convenience of the COUNTY. In such event, adjustment in the Agreement price shall be made as provided in subsection (b) of this Section.

(e) The rights and remedies of the COUNTY provided for in this Section are in addition and supplemental to any and all other rights and remedies provided by law or under this Agreement.

**SECTION 12. AGREEMENT AND WORK ORDER IN CONFLICT.** Whenever the terms of this Agreement conflict with any Work Order issued pursuant to it, the Agreement shall prevail.

**SECTION 13. EQUAL OPPORTUNITY EMPLOYMENT.** The CONSULTANT agrees that it will not discriminate against any employee or applicant for

employment for work under this Agreement because of race, color, religion, sex, age, disability, or national origin and will take steps to ensure that applicants are employed, and employees are treated during employment, without regard to race, color, religion, sex, age, disability, or national origin. This provision shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

**SECTION 14. NO CONTINGENT FEES.** The CONSULTANT warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the CONSULTANT to solicit or secure this Agreement and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for the CONSULTANT, any fee, commission, percentage, gift, or other consideration contingent upon or resulting from award or making of this Agreement. For the breach or violation of this provision, the COUNTY shall have the right to terminate the Agreement at its sole discretion, without liability and to deduct from the Agreement price, or otherwise recover, the full amount of such fee, commission, percentage, gift, or consideration.

**SECTION 15. CONFLICT OF INTEREST.**

(a) The CONSULTANT agrees that it will not contract for or accept employment for the performance of any work or service with any individual, business, corporation or government unit that would create a conflict of interest in the performance of its obligations pursuant to this Agreement with the COUNTY.

(b) The CONSULTANT agrees that it will neither take any action nor engage in any conduct that would cause any COUNTY employee to

violate the provisions of Chapter 112, Florida Statutes, relating to ethics in government.

(c) In the event that CONSULTANT causes or in any way promotes or encourages a COUNTY officer, employee, or agent to violate Chapter 112, Florida Statutes, the COUNTY shall have the right to terminate this Agreement.

**SECTION 16. ASSIGNMENT.** This Agreement, or any interest herein, shall not be assigned, transferred, or otherwise encumbered, under any circumstances, by the parties hereto without prior written consent of the other party and in such cases only by a document of equal dignity herewith.

**SECTION 17. SUBCONTRACTORS.** In the event that the CONSULTANT, during the course of the work under this Agreement, requires the services of any subcontractors or other professional associates in connection with services covered by this Agreement, the CONSULTANT must first secure the prior express written approval of the COUNTY. If subcontractors or other professional associates are required in connection with the services covered by this Agreement, CONSULTANT shall remain fully responsible for the services of subcontractors or other professional associates.

**SECTION 18. INDEMNIFICATION OF COUNTY.** The CONSULTANT agrees to hold harmless, replace, and indemnify the COUNTY, its commissioners, officers, employees, and agents against any and all claim, losses, damages or lawsuits for damages, arising from the negligent, reckless, or intentionally wrongful provision of services hereunder by the CONSULTANT, whether caused by the CONSULTANT or otherwise.

**SECTION 19. INSURANCE.**

(a) GENERAL. The CONSULTANT shall at the CONSULTANT's own cost, procure the insurance required under this Section.

(1) The CONSULTANT shall furnish the COUNTY with a Certificate of Insurance signed by an authorized representative of the insurer evidencing the insurance required by this Section (Professional Liability, Workers' Compensation/Employer's Liability and Commercial General Liability). The COUNTY, its officials, officers, and employees shall be named additional insured under the Commercial General Liability policy. The Certificate of Insurance shall provide that the COUNTY shall be given not less than thirty (30) days written notice prior to the cancellation or restriction of coverage. Until such time as the insurance is no longer required to be maintained by the CONSULTANT, the CONSULTANT shall provide the COUNTY with a renewal or replacement Certificate of Insurance not less than thirty (30) days before expiration or replacement of the insurance for which a previous certificate has been provided.

(2) The Certificate shall contain a statement that it is being provided in accordance with the Agreement and that the insurance is in full compliance with the requirements of the Agreement. In lieu of the statement on the Certificate, the CONSULTANT shall, at the option of the COUNTY submit a sworn, notarized statement from an authorized representative of the insurer that the Certificate is being provided in accordance with the Agreement and that the insurance is in full compliance with the requirements of the Agreement. **The Certificate shall have this Agreement number clearly marked on its face.**

(3) In addition to providing the Certificate of Insurance, if required by the COUNTY, the CONSULTANT shall, within thirty (30) days after receipt of the request, provide the COUNTY with a certified copy of each of the policies of insurance providing the coverage required by this Section.

(4) Neither approval by the COUNTY nor failure to disapprove the insurance furnished by a CONSULTANT shall relieve the CONSULTANT of the CONSULTANT's full responsibility for performance of any obligation including CONSULTANT indemnification of COUNTY under this Agreement.

(b) INSURANCE COMPANY REQUIREMENTS. Insurance companies providing the insurance under this Agreement must meet the following requirements:

(1) Companies issuing policies other than Workers' Compensation, must be authorized to conduct business in the State of Florida and prove same by maintaining Certificates of Authority issued to the companies by the Department of Insurance of the State of Florida. Policies for Workers' Compensation may be issued by companies authorized as a group self-insurer by Section 440.57, Florida Statutes.

(2) In addition, such companies other than those authorized by Section 440.57, Florida Statutes, shall have and maintain a Best's Rating of "A" or better and a Financial Size Category of "VII" or better according to A.M. Best Company.

(3) If, during the period which an insurance company is providing the insurance coverage required by this Agreement, an insurance company shall: 1) lose its Certificate of Authority, 2) no longer comply with Section 440.57, Florida Statutes, or 3) fail to maintain the requisite Best's Rating and Financial Size Category, the CONSULTANT shall, as soon as the CONSULTANT has knowledge of any such circumstance, immediately notify the COUNTY and immediately replace the insurance coverage provided by the insurance company with a different insurance company meeting the requirements of this Agreement. Until such time as the CONSULTANT has replaced the unacceptable insurer with an insurer acceptable to the COUNTY the CONSULTANT shall be deemed to be in default

of this Agreement.

(c) SPECIFICATIONS. Without limiting any of the other obligations or liability of the CONSULTANT, the CONSULTANT shall, at the CONSULTANT's sole expense, procure, maintain and keep in force amounts and types of insurance conforming to the minimum requirements set forth in this subsection. Except as otherwise specified in the Agreement, the insurance shall become effective prior to the commencement of work by the CONSULTANT and shall be maintained in force until the Agreement completion date. The amounts and types of insurance shall conform to the following minimum requirements.

(1) Workers' Compensation/Employer's Liability.

(A) The CONSULTANT's insurance shall cover the CONSULTANT for liability which would be covered by the latest edition of the standard Workers' Compensation Policy, as filed for use in Florida by the National Council on Compensation Insurance, without restrictive endorsements. The CONSULTANT will also be responsible for procuring proper proof of coverage from its subcontractors of every tier for liability which is a result of a Workers' Compensation injury to the subcontractor's employees. The minimum required limits to be provided by both the CONSULTANT and its subcontractors are outlined in subsection (c) below. In addition to coverage for the Florida Workers' Compensation Act, where appropriate, coverage is to be included for the United States Longshoremen and Harbor Workers' Compensation Act, Federal Employers' Liability Act and any other applicable federal or state law.

(B) Subject to the restrictions of coverage found in the standard Workers' Compensation Policy, there shall be no maximum limit on the amount of coverage for liability imposed by the Florida Workers' Compensation Act, the United States Longshoremen's and Harbor Workers' Compensation Act, or any other coverage customarily insured

under Part One of the standard Workers' Compensation Policy.

(C) The minimum amount of coverage under Part Two of the standard Workers' Compensation Policy shall be:

\$ 500,000.00	(Each Accident)
\$1,000,000.00	(Disease-Policy Limit)
\$ 500,000.00	(Disease-Each Employee)

(2) Commercial General Liability.

(A) The CONSULTANT's insurance shall cover the CONSULTANT for those sources of liability which would be covered by the latest edition of the standard Commercial General Liability Coverage Form (ISO Form CG 00 01), as filed for use in the State of Florida by the Insurance Services Office, without the attachment of restrictive endorsements other than the elimination of Coverage C, Medical Payment and the elimination of coverage for Fire Damage Legal Liability.

(B) The minimum limits to be maintained by the CONSULTANT (inclusive of any amounts provided by an Umbrella or Excess policy) shall be as follows:

	<u>LIMITS</u>
General Aggregate	\$Three (3) Times the Each Occurrence Limit
Personal & Advertising Injury Limit	\$1,000,000.00
Each Occurrence Limit	\$1,000,000.00

(3) Professional Liability Insurance. The CONSULTANT shall carry limits of not less than ONE MILLION AND NO/100 DOLLARS (\$1,000,000.00).

(d) COVERAGE. The insurance provided by CONSULTANT pursuant to this Agreement shall apply on a primary basis and any other insurance or self-insurance maintained by the COUNTY or the COUNTY's officials, officers, or employees shall be excess of and not contributing with the insurance provided by or on behalf of the CONSULTANT.



(e) OCCURRENCE BASIS. The Workers' Compensation Policy and the Commercial General Liability required by this Agreement shall be provided on an occurrence rather than a claims-made basis. The Professional Liability insurance policy must either be on an occurrence basis, or, if a claims-made basis, the coverage must respond to all claims reported within three (3) years following the period for which coverage is required and which would have been covered had the coverage been on an occurrence basis.

(f) OBLIGATIONS. Compliance with the foregoing insurance requirements shall not relieve the CONSULTANT, its employees or agents of liability from any obligation under a Section or any other portions of this Agreement.

#### **SECTION 20. ALTERNATIVE DISPUTE RESOLUTION.**

(a) In the event of a dispute related to any performance or payment obligation arising under this Agreement, the parties agree to exhaust COUNTY protest procedures prior to filing suit or otherwise pursuing legal remedies. COUNTY procedures for proper invoice and payment disputes are set forth in Section 22.15, "Prompt Payment Procedures," Seminole County Administrative Code.

(b) CONSULTANT agrees that it will file no suit or otherwise pursue legal remedies based on facts or evidentiary materials that were not presented for consideration in the COUNTY protest procedures set forth in subsection (a) above of which the CONSULTANT had knowledge and failed to present during the COUNTY protest procedures.

(c) In the event that COUNTY protest procedures are exhausted and a suit is filed or legal remedies are otherwise pursued, the parties shall exercise best efforts to resolve disputes through voluntary mediation. Mediator selection and the procedures to be employed in voluntary mediation shall be mutually acceptable to the parties. Costs

of voluntary mediation shall be shared equally among the parties participating in the mediation.

**SECTION 21. REPRESENTATIVES OF THE COUNTY AND THE CONSULTANT.**

(a) It is recognized that questions in the day-to-day conduct of performance pursuant to this Agreement will arise. The COUNTY, upon request by the CONSULTANT, shall designate in writing and shall advise the CONSULTANT in writing of one (1) or more of its employees to whom all communications pertaining to the day-to-day conduct of this Agreement shall be addressed. The designated representative shall have the authority to transmit instructions, receive information and interpret and define the COUNTY's policy and decisions pertinent to the work covered by this Agreement.

(b) The CONSULTANT shall, at all times during the normal work week, designate or appoint one or more representatives of the CONSULTANT who are authorized to act in behalf of and bind the CONSULTANT regarding all matters involving the conduct of the performance pursuant to this Agreement and shall keep the COUNTY continually and effectively advised of such designation.

**SECTION 22. ALL PRIOR AGREEMENTS SUPERSEDED.** This document incorporates and includes all prior negotiations, correspondence, conversations, agreements or understandings applicable to the matters contained herein and the parties agree that there are no commitments, agreements or understandings concerning the subject matter of this Agreement that are not contained or referred to in this document. Accordingly, it is agreed that no deviation from the terms hereof shall be predicated upon any prior representations or agreements, whether oral or written.

**SECTION 23. MODIFICATIONS, AMENDMENTS OR ALTERATIONS.** No modification, amendment or alteration in the terms or conditions contained

herein shall be effective unless contained in a written document executed with the same formality and of equal dignity herewith.

**SECTION 24. INDEPENDENT CONTRACTOR.** It is agreed that nothing herein contained is intended or should be construed as in any manner creating or establishing a relationship of co-partners between the parties, or as constituting the CONSULTANT (including its officers, employees, and agents) the agent, representative, or employee of the COUNTY for any purpose, or in any manner, whatsoever. The CONSULTANT is to be and shall remain forever an independent contractor with respect to all services performed under this Agreement.

**SECTION 25. EMPLOYEE STATUS.** Persons employed by the CONSULTANT in the performance of services and functions pursuant to this Agreement shall have no claim to pension, workers' compensation, unemployment compensation, civil service or other employee rights or privileges granted to the COUNTY's officers and employees either by operation of law or by the COUNTY.

**SECTION 26. SERVICES NOT PROVIDED FOR.** No claim for services furnished by the CONSULTANT not specifically provided for herein shall be honored by the COUNTY.

**SECTION 27. PUBLIC RECORDS LAW.** CONSULTANT acknowledges COUNTY's obligations under Article I, Section 24, Florida Constitution and Chapter 119, Florida Statutes, to release public records to members of the public upon request. CONSULTANT acknowledges that COUNTY is required to comply with Article I, Section 24, Florida Constitution and Chapter 119, Florida Statutes, in the handling of the materials created under this Agreement and that said statute controls over the terms of this Agreement.

**SECTION 28. COMPLIANCE WITH LAWS AND REGULATIONS.** In providing all services pursuant to this Agreement, the CONSULTANT shall abide by

all statutes, ordinances, rules, and regulations pertaining to, or regulating the provisions of, such services, including those now in effect and hereafter adopted. Any violation of said statutes, ordinances, rules, or regulations shall constitute a material breach of this Agreement, and shall entitle the COUNTY to terminate this Agreement immediately upon delivery of written notice of termination to the CONSULTANT.

**SECTION 29. NOTICES.** Whenever either party desires to give notice unto the other, it must be given by written notice, sent by registered or certified United States mail, with return receipt requested, addressed to the party for whom it is intended at the place last specified and the place for giving of notice shall remain such until it shall have been changed by written notice in compliance with the provisions of this Section. For the present, the parties designate the following as the respective places for giving of notice, to-wit:

**For COUNTY:**

Public Works Department  
520 W. Lake Mary Boulevard, Suite 200  
Sanford, FL 32773

**For CONSULTANT:**

Environmental Research & Design, Inc.  
3419 Trentwood Boulevard, Suite 102  
Orlando, FL 32812

**SECTION 30. RIGHTS AT LAW RETAINED.** The rights and remedies of the COUNTY, provided for under this Agreement, are in addition and supplemental to any other rights and remedies provided by law.

**IN WITNESS WHEREOF,** the parties hereto have made and executed this Agreement on the date below written for execution by the COUNTY.

ATTEST:

ENVIRONMENTAL RESEARCH & DESIGN, INC.

\_\_\_\_\_, Secretary

By: \_\_\_\_\_  
HARVEY H. HARPER, III, Ph.D., P.E.  
President

(CORPORATE SEAL)

Date: \_\_\_\_\_

SEMINOLE COUNTY, FLORIDA

\_\_\_\_\_  
Witness

By: \_\_\_\_\_  
CYNTHIA A. COTO, County Manager

\_\_\_\_\_  
Print Name

Date: \_\_\_\_\_

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Print Name

Within authority of Resolution  
No. 93-R-71 adopted February 23,  
1993.

For the use and reliance  
of Seminole County only.

Approved as to form and  
legal sufficiency.

\_\_\_\_\_  
County Attorney

AC/lpk  
7/5/06  
Ps-0984

Attachments:

- Exhibit "A" - Scope of Services
- Exhibit "B" - Sample Work Order
- Exhibit "C" - Rate Schedule

## Requirements of monitoring plans

Within six months before the completion of each project, the consultant will submit a detailed monitoring plan to the County for review and approval. The monitoring plan will specify the sampling locations, sampling instruments, and parameters to be sampled. The monitoring will include sampling of from seven to ten (10) storm events annually, as described below. Each project will be required to have at a minimum of one year of storm event monitoring, with many to require up to three years or more. Monitored events will be discrete rainfall events of generally greater than 0.20 inches and less than 1.5 inches. However, the storm event rainfall may be modified depending on the type of RSF, the contributing drainage area, the amount of impervious area, and the time of concentration.

Monitoring will be conducted at a minimum of two locations: inflow and outflow.

Monitoring will typically include the following parameters:

- Daily rainfall (to nearest 0.01 inch) measured at the sampling location with verification from the local weather station. Rainfall data should be provided for at least the week proceeding monitoring and day(s) of monitoring.
- Flow using approved flow activated flow meters
  - Parameters as specified below

Parameter	Detection Limit	Method
Total Cadmium	1 ug/l	Composite*
Total Chromium	5 ug/l	Composite*
Total Copper	5 ug/l	Composite*
Total Zinc	10 ug/l	Composite*
NO <sub>2</sub> +NO <sub>3</sub>	0.1 mg/l	Composite*
TKN	0.3 mg/l	Composite*
Total Ammonia	0.05 mg/l	Composite*
Or Total N		Composite*
Total Phosphorus	0.05 mg/l	Composite*
Ortho Phosphate	0.05 mg/l	Composite*
TSS	1 mg/l	Composite*
Oil/Grease	1 mg/l	Composite*
Fecal coliform	N/A	Grab**

\*Flow weighted composite samples will be taken over the storm hydrograph. Typically, the samples will be composited over the inflow hydrograph at the inflow and for up to a 36 hour period at outflow station. Rainfall that does not result in at least a six hour discharge from the stormwater BMP shall not be considered a completed monitoring event. Each composite will include at least six evenly distributed sub-samples.

\*\*Grab samples to be collected within the drainage area time of concentration at influent and effluent stations described above.

The applicant should estimate the pollutant removal efficiency of the stormwater BMP by calculating the percent reduction in the event mean concentration (EMC) for the period of record

[1-(Average Inflow EMC/Average Outflow EMC)]. For BMPs with multiple inflow (and/or outflow) points, the pollutant contributions for each inflow should be flow weighted. See the National Stormwater Best Management Practice database at <http://www.bmpdatabase.org/> and Development of Performance Measures, Determining Urban Stormwater Best Management Practice Removal Efficiencies, 1999 by URS Greiner Woodward Clyde, ASCE and EPA at [http://www.bmpdatabase.org/task3\\_1.pdf](http://www.bmpdatabase.org/task3_1.pdf)

The efficiency ratio is defined in terms of the average event mean concentration (EMC) of pollutants over some time period:

$$ER = 1 - \frac{\text{Average outlet EMC}}{\text{Average inlet EMC}} = \frac{\text{average inlet EMC} - \text{average outlet EMC}}{\text{average inlet EMC}}$$

EMCs can be either collected as flow weighted composite samples in the field or calculated from discrete measurements. The EMC for an individual event or set of field measurements, where discrete samples have been collected, is defined as:

$$EMC = \sum V_i C_i / \sum V_i$$

where,

V: volume of flow during period i

C: average concentration associated with period i

n: total number of measurements taken during event

The arithmetic average EMC is defined as,

$$\text{average EMC} = \sum EMC_j / m$$

where,

m: number of events measured

In addition, the log mean EMC can be calculated using the logarithmic transformation of each EMC. This transformation allows for normalization of the data for statistical purposes.

$$\text{Mean of the Log EMCs} = \sum \text{Log}(EMC_j) / m$$

Estimates of the arithmetic summary statistics of the population (mean, median, standard deviation, and coefficient of variation) should be based on their theoretical relationships with the mean and standard deviation of the transformed data. Computing the mean and standard deviation of log transforms of the sample EMC data and then converting them to an arithmetic estimate often obtains a better estimate of the mean of the population due to the more typical distributional characteristics of water quality data. This value will not match that produced by the simple arithmetic

average of the data. Both provide an estimate of the population mean, but the approach utilizing the log-transformed data tends to provide a better estimator, as it has been shown in various investigations that pollutant, contaminant and constituent concentration levels have a log-normal distribution (NURP, 1983). As the sample size increases, the two values converge.

## Assumptions

**This method**

- Weights EMCs from all storms equally regardless of relative magnitude of storm. For example a high concentration/high volume event has equal weight in the average EMC as a low concentration/low volume event. The logarithmic approach tends to minimize the difference between the EMC and mass balance calculations.
- Is most useful when loads are directly proportional to storm volume. For work conducted on nonpoint pollution (i.e., inflows), the EMC has been shown to not vary significantly with storm volume. This lends credence to using the average EMC value for the inflow but does not provide sufficient evidence that outflows are well represented by average EMC. Accuracy of this method will vary based on the BMP type.
- Minimizes the impacts of smaller/cleaner storm events on actual performance calculations. For example, in a storm by storm efficiency approach, a low removal value for such an event is weighted equally to a larger value.
- Allows for the use of data where portions of the inflow or outflow data are missing, based on the assumption that the inclusion of the missing data points would not significantly impact the calculated average EMC.

**Comments****This method**

- Is taken directly from nonpoint pollution studies and does a good job characterizing inflows to BMPs but fails to take into account some of the complexities of BMP design. For example, some BMPs may not have outflow EMCs that are normally distributed (e.g., a media filter that treats to a relatively constant level that is independent on inflow concentrations).
- Assumes that if all storms at the site had been monitored, the average inlet and outlet EMCs would be similar to those that were monitored.



**Board of County Commissioners  
SEMINOLE COUNTY, FLORIDA**

# WORK ORDER

Work Order Number: \_\_\_\_\_

Master Agreement No.: \_\_\_\_\_ Dated: \_\_\_\_\_

Contract Title: \_\_\_\_\_

Project Title: \_\_\_\_\_

Consultant: \_\_\_\_\_

Address: \_\_\_\_\_

**ATTACHMENTS TO THIS WORK ORDER:**

- ☐ drawings/plans/specifications  
☐ scope of services  
☐ special conditions  
☐ \_\_\_\_\_

**METHOD OF COMPENSATION:**

- ☐ fixed fee basis  
☐ time basis-not-to-exceed  
☐ time basis-limitation of funds

**TIME FOR COMPLETION:** The services to be provided by the CONTRACTOR shall commence upon execution of this Agreement by the parties and shall be completed within "X" (days, months, years) of the effective date of this agreement. Failure to meet the completion date may be grounds for Termination for Default.

Work Order Amount: \_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_)

IN WITNESS WHEREOF, the parties hereto have made and executed this Work Order on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, for the purposes stated herein.

(THIS SECTION TO BE COMPLETED BY THE COUNTY)

**ATTEST:**

\_\_\_\_\_, Secretary

(CORPORATE SEAL)

By: \_\_\_\_\_, President

Date: \_\_\_\_\_

BOARD OF COUNTY COMMISSIONERS  
SEMINOLE COUNTY, FLORIDA

**WITNESSES:**

\_\_\_\_\_  
(Contracts Analyst, print name)

By: \_\_\_\_\_, Contracts Supervisor

Date: \_\_\_\_\_

\_\_\_\_\_  
(Contracts Analyst, print name)

As authorized by Section 330.3, Seminole  
County Administrative Code.

County Attorney

## WORK ORDER TERMS AND CONDITIONS

- a) Execution of this Work Order by the COUNTY shall serve as authorization for the CONSULTANT to provide, for the stated project, professional services as set out in the Scope of Services attached as Exhibit "A" to the Master Agreement cited on the face of this Work Order and as further delineated in the attachments listed on this Work Order.
- b) Term: This work order shall take effect on the date of its execution by the County and expires upon final delivery, inspection, acceptance and payment unless terminated earlier in accordance with the Termination provisions herein.
- c) The CONSULTANT shall provide said services pursuant to this Work Order, its Attachments, and the cited Master Agreement (as amended, if applicable) which is incorporated herein by reference as if it had been set out in its entirety.
- d) Whenever the Work Order conflicts with the cited Master Agreement, the Master Agreement shall prevail.
- e) METHOD OF COMPENSATION - If the compensation is based on a:
  - (i) FIXED FEE BASIS, then the Work Order Amount becomes the Fixed Fee Amount and the CONSULTANT shall perform all work required by this Work Order for the Fixed Fee Amount. The Fixed Fee is an all-inclusive Firm Fixed Price binding the CONSULTANT to complete the work for the Fixed Fee Amount regardless of the costs of performance. In no event shall the CONSULTANT be paid more than the Fixed Fee Amount.
  - (ii) TIME BASIS WITH A NOT-TO-EXCEED AMOUNT, then the Work Order Amount becomes the Not-to-Exceed Amount and the CONSULTANT shall perform all the work required by this Work Order for a sum not exceeding the Not-to-Exceed Amount. In no event is the CONSULTANT authorized to incur expenses exceeding the not-to-exceed amount without the express written consent of the COUNTY. Such consent will normally be in the form of an amendment to this Work Order. The CONSULTANT's compensation shall be based on the actual work required by this Work Order and the Labor Hour Rates established in the Master Agreement.
  - (iii) TIME BASIS WITH A LIMITATION OF FUNDS AMOUNT, then the Work Order Amount becomes the Limitation of Funds amount and the CONSULTANT is not authorized to exceed the Limitation of Funds amount without prior written approval of the COUNTY. Such approval, if given by the COUNTY, shall indicate a new Limitation of Funds amount. The CONSULTANT shall advise the COUNTY whenever the CONSULTANT has incurred expenses on this Work Order that equals or exceeds eighty percent (80%) of the Limitation of Funds amount. The CONSULTANT's compensation shall be based on the actual work required by this Work Order and the Labor Hour Rates established in the Master Agreement.
- f) Payment to the CONSULTANT shall be made by the COUNTY in strict accordance with the payment terms of the referenced Master Agreement.
- g) It is expressly understood by the CONSULTANT that this Work Order, until executed by the COUNTY, does not authorize the performance of any services by the CONSULTANT and that the COUNTY, prior to its execution of the Work Order, reserves the right to authorize a party other than the CONSULTANT to perform the services called for under this Work Order; if it is determined that to do so is in the best interest of the COUNTY.

EXHIBIT "B"

- h) The CONSULTANT shall sign the Work Order first and the COUNTY second. This Work Order becomes effective and binding upon execution by the COUNTY and not until then. A copy of this Work Order will be forwarded to the CONSULTANT upon execution by the COUNTY.

Exhibit "C"  
Rate Schedule