

AMENDMENT # 002

THIS AMENDMENT, entered into between the State of Florida, Department of Health, hereinafter referred to as the "Department" and Hazen and Sawyer, P.C., hereinafter referred to as the "provider", amends contract # CORCL.

1. Attachment I of Contract is hereby amended to read:

Section B. shall be amended to include the following subtasks and Section C. budget spreadsheet shall be replaced to read:

B. MANNER OF SERVICE PROVISION

1. Service Tasks

a) Task List

Task A: Technology Evaluation for Field Testing: Review, Prioritization, and Development

Sub-tasks and Deliverables

31. Change-order Allowance

From time to time the Department may find it necessary to make minor changes or adjustments to activities under this task based on results that indicate a potential improvement to the project by making a change. Examples of such changes include additional or revised sample locations and parameters, minor modifications to test systems or field activities based on problems encountered, or conditions that develop requiring expedient actions to correct a potentially serious problem. Up to \$ 40,000 will be allocated from the contract budget for such minor changes to research activities under this task. Upon determination by the Department that changes should be made, all or a portion of these funds may be authorized by written notification from the Department to the Provider directing specific changes to research activities be made, and the amount budgeted for the changes specified.

Deliverable: As specified in the authorization

Task B Field Testing of Technologies and Cost Documentation

Sub-tasks and Deliverables

16. Change-order Allowance

From time to time the Department may find it necessary to make minor changes or adjustments to activities under this task based on results that indicate a potential improvement to the project by making a change. Examples of such changes include additional or revised sample locations and parameters, minor modifications to test systems or field activities based on problems encountered, or conditions that develop requiring expedient actions to correct a potentially serious problem. Up to \$ 50,000 will be allocated from the contract budget for such minor changes to research activities under this task. Upon determination by the Department that changes should be made, all or a portion of these funds may be authorized by written notification from the

Department to the Provider directing specific changes to research activities be made, and the amount budgeted for the changes specified.

Deliverable: As specified in the authorization

Task C. Evaluation of Nitrogen Reduction Provided by Soils and Shallow Groundwater

Sub-tasks and Deliverables

30. Change-order Allowance

From time to time the Department may find it necessary to make minor changes or adjustments to activities under this task based on results that indicate a potential improvement to the project by making a change. Examples of such changes include additional or revised sample locations and parameters, minor modifications to test systems or field activities based on problems encountered, or conditions that develop requiring expedient actions to correct a potentially serious problem. Up to \$ 40,000 will be allocated from the contract budget for such minor changes to research activities under this task. Upon determination by the Department that changes should be made, all or a portion of these funds may be authorized by written notification from the Department to the Provider directing specific changes to research activities be made, and the amount budgeted for the changes specified.

Deliverable: As specified in the authorization

Task D Nitrogen Fate and Transport Modeling

Sub-tasks and Deliverables

29. Change-order Allowance

From time to time the Department may find it necessary to make minor changes or adjustments to activities under this task based on results that indicate a potential improvement to the project by making a change. Examples of such changes include additional or revised sample locations and parameters, minor modifications to test systems or field activities based on problems encountered, or conditions that develop requiring expedient actions to correct a potentially serious problem. Up to \$ 10,000 will be allocated from the contract budget for such minor changes to research activities under this task. Upon determination by the Department that changes should be made, all or a portion of these funds may be authorized by written notification from the Department to the Provider directing specific changes to research activities be made, and the amount budgeted for the changes specified.

Deliverable: As specified in the authorization

C. METHOD OF PAYMENT

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TASK NO.	Task	Per Deliverable Subtotal	No. of Deliverables			Total Cost			
			PH1	PH2	PH3	PH1	PH2	PH3	Total
A	Task A: Technology Selection & Prioritization					\$352,144	\$399,136	\$35,480	\$786,760
A.1	Draft Literature Review Report	\$ 13,796.00	1	0	0	\$13,796	\$0	\$0	\$13,796
A.2	Final Literature Review Report	\$ 6,092.00	1	0	0	\$6,092	\$0	\$0	\$6,092
A.3	Draft Classification of Technologies Report	\$ 12,830.60	1	0	0	\$12,831	\$0	\$0	\$12,831
A.4	Draft Technology Ranking Criteria Report	\$ 10,096.00	1	0	0	\$10,096	\$0	\$0	\$10,096
A.5	Draft Priority List for Testing Report	\$ 14,858.60	1	0	0	\$14,859	\$0	\$0	\$14,859
A.6	Technology Classification, Ranking and Prioritization Workshop	\$ 18,242.60	1	0	0	\$18,243	\$0	\$0	\$18,243
A.7	Final Classification of Technologies Report	\$ 5,044.00	1	0	0	\$5,044	\$0	\$0	\$5,044
A.8	Final Technology Ranking Criteria Report	\$ 7,944.00	1	0	0	\$7,944	\$0	\$0	\$7,944
A.9	Final Priority List for Testing Report	\$ 7,786.60	1	0	0	\$7,787	\$0	\$0	\$7,787
A.10	Draft Innovative Systems Applications Report (per technology, up to five)	\$ 11,655.00	0	4	0	\$0	\$46,620	\$0	\$46,620
A.11	Final Innovative Systems Applications Report (per technology, up to five)	\$ 9,219.00	0	4	0	\$0	\$36,876	\$0	\$36,876
A.12	Identification of Test Facility Sites (per site agreement)	\$ 2,538.25	2	0	0	\$5,077	\$0	\$0	\$5,077
A.13	Draft PNRS II QAPP	\$ 13,170.50	1	0	0	\$13,171	\$0	\$0	\$13,171
A.14	Recommendation for Process Forward (per meeting)	\$ 6,236.50	1	0	0	\$6,237	\$0	\$0	\$6,237
A.15	Final PNRS II QAPP	\$ 4,496.00	1	0	0	\$4,496	\$0	\$0	\$4,496
A.16	Materials Testing for FDoH Additives Rule	\$ 4,000.00	2	2	0	\$8,000	\$8,000	\$0	\$16,000
A.17	PNRS Specification Reports	\$ 18,715.00	1	1	0	\$18,715	\$18,715	\$0	\$37,430
A.18	PNRS II Test Facility Design 50%	\$ 11,721.48	1	0	0	\$11,721	\$0	\$0	\$11,721
A.19	PNRS II Test Facility Design 100%	\$ 16,200.50	1	0	0	\$16,201	\$0	\$0	\$16,201
A.20	PNRS II Test Facility Construction Support and Administration (2 deliverables, 50% at start, 50% at completion)	\$ 16,601.00	2	0	0	\$33,202	\$0	\$0	\$33,202
A.21	PNRS II Test Facility Construction 50% (2 deliverables, start and 50% complete)	\$ 25,000.00	2	0	0	\$50,000	\$0	\$0	\$50,000
A.22	PNRS II Test Facility Construction 100% (cost reimbursable)	\$ 40,000.00	1	0	0	\$40,000	\$0	\$0	\$40,000
A.23	PNRS II Test Facility Construction Substantial Completion	\$ 10,000.00	1	0	0	\$10,000	\$0	\$0	\$10,000
A.24	PNRS II Test Facility Accept Construction	\$ 9,650.00	1	0	0	\$9,650	\$0	\$0	\$9,650
A.25	Monitoring and Sample Event Reports (per sample event)	\$ 28,985.00	1	6	0	\$28,985	\$173,910	\$0	\$202,895
A.26	Data Summary Report (per sample event)	\$ 3,365.00	0	7	0	\$0	\$23,555	\$0	\$23,555
A.27	Draft PNRS II Report	\$ 34,220.00	0	1	0	\$0	\$34,220	\$0	\$34,220
A.28	Final PNRS II Report	\$ 17,240.00	0	1	0	\$0	\$17,240	\$0	\$17,240
A.29	Draft Task A Final Report	\$ 26,000.00	0	0	1	\$0	\$0	\$26,000	\$26,000
A.30	Task A Final Report	\$ 9,480.00	0	0	1	\$0	\$0	\$9,480	\$9,480
A.31	Change-order Allowance	\$ 40,000.00	0	1	0	\$0	\$40,000	\$0	\$40,000

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B Task B: Field Testing of Technologies						\$50,202	\$471,035	\$559,115	\$1,080,352
B.1	Identification of Home Sites (per homeowner agreement)	\$ 9,341.67	1	9	0	\$9,342	\$84,075	\$0	\$93,417
B.2	Vendor Agreement Report (per vendor agreement)	\$ 7,580.00	2	2	4	\$15,160	\$15,160	\$30,320	\$60,640
B.3	Draft QAPP for Field Testing	\$ 25,700.00	1	0	0	\$25,700	\$0	\$0	\$25,700
B.4	Recommendation for Process Forward (per meeting)	\$ 6,780.00	0	1	0	\$0	\$6,780	\$0	\$6,780
B.5	Final QAPP Field Testing	\$ 11,060.00	0	1	0	\$0	\$11,060	\$0	\$11,060
B.6	Field Systems Installation Report (per system)	\$ 37,900.00	0	4	4	\$0	\$151,600	\$151,600	\$303,200
B.7	Field Systems Monitoring Report (per event)	\$ 31,285.00	0	4	4	\$0	\$125,140	\$125,140	\$250,280
B.8	Field Systems Operation, Maintenance and Repairs Report (per system)	\$ 8,630.00	0	0	8	\$0	\$0	\$69,040	\$69,040
B.9	Technical Description of Nitrogen Reduction Technology Report	\$ 17,271.00	0	0	1	\$0	\$0	\$17,271	\$17,271
B.10	Acceptance of System by Owner Report (per system)	\$ 4,758.00	0	0	8	\$0	\$0	\$38,064	\$38,064
B.11	LCCA Template Report (draft template and user guidelines)	\$ 18,140.00	0	1	0	\$0	\$18,140	\$0	\$18,140
B.12	LCCA Template Report (final template and user guidelines)	\$ 9,080.00	0	1	0	\$0	\$9,080	\$0	\$9,080
B.13	LCCA Report (per system)	\$ 5,040.00	0	0	8	\$0	\$0	\$40,320	\$40,320
B.14	Draft Task B Final Report	\$ 57,600.00	0	0	1	\$0	\$0	\$57,600	\$57,600
B.15	Task B Final Report	\$ 29,760.00	0	0	1	\$0	\$0	\$29,760	\$29,760
B.16	Change-order Allowance	\$ 50,000.00	0	1	0	\$0	\$50,000	\$0	\$50,000

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Task C: Evaluation of Nitrogen Reduction by Soils & Shallow GW		\$216,164	\$1,027,848	\$662,940	\$1,906,952				
C.1	Draft Literature Review on Nitrogen Reduction in Soil Report	\$ 11,300.00	1	0	0	\$11,300	\$0	\$0	\$11,300
C.2	Final Literature Review on Nitrogen Reduction in Soil Report	\$ 6,900.00	1	0	0	\$6,900	\$0	\$0	\$6,900
C.3	Draft QAPP Evaluation of N Reduction by Soils & Shallow GW	\$ 38,939.50	1	0	0	\$38,940	\$0	\$0	\$38,940
C.4	Recommendation for Process Forward (per meeting)	\$ 5,906.50	1	0	0	\$5,907	\$0	\$0	\$5,907
C.5	Final QAPP Evaluation of N Reduction by Soils & Shallow GW	\$ 9,189.73	1	0	0	\$9,190	\$0	\$0	\$9,190
C.6	S&GW Test Facility Design 50%	\$ 26,470.50	1	0	0	\$26,471	\$0	\$0	\$26,471
C.7	S&GW Test Facility Design 100%	\$ 26,570.50	1	0	0	\$26,571	\$0	\$0	\$26,571
C.8	S&GW Test Facility Design Final	\$ 21,207.00	1	0	0	\$21,207	\$0	\$0	\$21,207
C.9	S&GW Construction Support & Administration (2 deliverables, 50% at start, 50% at completion)	\$ 13,560.00	0	2	0	\$0	\$27,120	\$0	\$27,120
C.10	S&GW Test Facility Construction 50% (2 deliverables, start and 50% complete)	\$ 15,000.00	2	0	0	\$30,000	\$0	\$0	\$30,000
C.11	S&GW Test Facility Construction 100% (cost reimbursable)	\$ 40,000.00	0	1	0	\$0	\$40,000	\$0	\$40,000
C.12	S&GW Test Facility Construction Substantial Completion	\$ 3,680.00	0	1	0	\$0	\$3,680	\$0	\$3,680
C.13	S&GW Test Facility Accept Construction	\$ 7,480.00	0	1	0	\$0	\$7,480	\$0	\$7,480
C.14	Soils & Hydrogeologic and Monitoring Plan for S&GW Test Facility	\$ 34,945.00	0	1	0	\$0	\$34,945	\$0	\$34,945
C.15	Tracer Testing at GCREC (per tracer test)	\$ 18,910.00	0	3	0	\$0	\$56,730	\$0	\$56,730
C.16	S&GW Sample Event Reports (per sample event)	\$ 37,523.28	0	3	3	\$0	\$112,570	\$112,570	\$225,140
C.17	S&GW Data Summary Report (per sample event)	\$ 3,240.00	0	3	3	\$0	\$9,720	\$9,720	\$19,440
C.18	Test Facility Closeout Report	\$ 13,080.00	0	0	1	\$0	\$0	\$13,080	\$13,080
C.19	Field Site Selection (per property owner agreement)	\$ 9,932.67	1	6	0	\$9,933	\$59,596	\$0	\$69,529
C.20	Instrumentation of GCREC Mound System	\$ 59,495.00	0.5	0.5	0	\$29,748	\$29,748	\$0	\$59,495
C.21	GCREC Mound Sample Event Report (per sampling event)	\$ 38,290.00	0	4	0	\$0	\$153,160	\$0	\$153,160
C.22	GCREC Mound Data Summary Report (per sampling event)	\$ 8,160.00	0	4	0	\$0	\$32,640	\$0	\$32,640
C.23	Instrumentation of Remaining Field Sites Report (per site)	\$ 43,075.00	0	4	0	\$0	\$172,300	\$0	\$172,300
C.24	Field Sites Sample Event Reports (per sample event, per site)	\$ 36,520.00	0	6	10	\$0	\$219,120	\$365,200	\$584,320
C.25	Field Sites Data Summary Report (per sample event, per site)	\$ 4,840.00	0	6	10	\$0	\$29,040	\$48,400	\$77,440
C.26	Draft Site Summary and Close-out Report (per site)	\$ 8,680.00	0	0	5	\$0	\$0	\$43,400	\$43,400
C.27	Final Site Close-Out Report (per site)	\$ 2,670.00	0	0	5	\$0	\$0	\$13,350	\$13,350
C.28	Draft Task C Final Report	\$ 40,040.00	0	0	1	\$0	\$0	\$40,040	\$40,040
C.29	Task C Final Report	\$ 17,180.00	0	0	1	\$0	\$0	\$17,180	\$17,180
C.30	Change-order Allowance	\$ 40,000.00	0	1	0	\$0	\$40,000	\$0	\$40,000

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D Task D: Nitrogen Fate and Transport Models						\$74,357	\$93,857	\$639,808	\$808,023
D.1	Draft Literature Review on Nitrogen Fate & Transport Model Report	\$ 15,533.23	1	0	0	\$15,533	\$0	\$0	\$15,533
D.2	Final Literature Review on Nitrogen Fate & Transport Model Report	\$ 5,211.08	1	0	0	\$5,211	\$0	\$0	\$5,211
D.3	Selection of Existing Data Set for Calibration Report	\$ 15,092.20	1	0	0	\$15,092	\$0	\$0	\$15,092
D.4	Draft QAPP N Fate and Transport Models	\$ 32,186.76	1	0	0	\$32,187	\$0	\$0	\$32,187
D.5	Recommendation for Process Forward (per meeting)	\$ 6,334.00	1	0	0	\$6,334	\$0	\$0	\$6,334
D.6	Final QAPP N Fate and Transport Models	\$ 15,657.38	0	1	0	\$0	\$15,657	\$0	\$15,657
D.7	Simple Soil Model Development	\$ 4,263.26	0	1	0	\$0	\$4,263	\$0	\$4,263
D.8	Non-Steady State Aquifer Model, Simple Soil Model	\$ 17,053.04	0	0	1	\$0	\$0	\$17,053	\$17,053
D.9	Aquifer Model with Averaged Output, Simple Soil Model	\$ 20,008.30	0	0	1	\$0	\$0	\$20,008	\$20,008
D.10	Multi-Source Aquifer Model	\$ 22,834.75	0	0	1	\$0	\$0	\$22,835	\$22,835
D.11	Calibrate Non-Steady State Aquifer Model to Existing Data Sets	\$ 34,033.63	0	0	1	\$0	\$0	\$34,034	\$34,034
D.12	Calibrate Aquifer Model with Averaged Output to Existing Data Sets	\$ 11,634.88	0	0	1	\$0	\$0	\$11,635	\$11,635
D.13	Calibrate Multi-Source Aquifer Model to Existing Data Sets	\$ 22,834.75	0	0	1	\$0	\$0	\$22,835	\$22,835
D.14	Complex Soil Model Development	\$ 63,936.61	0	1	0	\$0	\$63,937	\$0	\$63,937
D.15	Non-Steady State Aquifer Model, Complex Soil Model	\$ 27,401.40	0	0	1	\$0	\$0	\$27,401	\$27,401
D.16	Aquifer Model with Averaged Output, Complex Soil Model	\$ 12,942.88	0	0	1	\$0	\$0	\$12,943	\$12,943
D.17	Multi-Source Aquifer Model, Complex Soil Model	\$ 12,942.88	0	0	1	\$0	\$0	\$12,943	\$12,943
D.18	Calibrate Non-Steady State Aquifer Model, Complex Soil Model to Existing Data Sets	\$ 16,480.93	0	0	1	\$0	\$0	\$16,481	\$16,481
D.19	Calibrate Multi-Source Aquifer Model, Complex Soil Model to Existing Data Sets	\$ 16,480.93	0	0	1	\$0	\$0	\$16,481	\$16,481
D.20	Uncertainty Analysis for Non-Calibrated Models	\$ 43,658.81	0	0	1	\$0	\$0	\$43,659	\$43,659
D.21	Validate/Refine Non-Steady State Aquifer Model with Data Collection from Task C	\$ 65,924.71	0	0	1	\$0	\$0	\$65,925	\$65,925
D.22	Validate/Refine Complex Soil Model with Data Collected from Task C	\$ 65,052.71	0	0	1	\$0	\$0	\$65,053	\$65,053
D.23	Uncertainty Analysis for Calibrated Models	\$ 33,128.18	0	0	1	\$0	\$0	\$33,128	\$33,128
D.24	Validate/Refine Non-Steady State Aquifer, Complex Soil Model with Data Collected from Task C	\$ 66,257.35	0	0	1	\$0	\$0	\$66,257	\$66,257
D.25	Decision-Making Framework Considering Uncertainty	\$ 44,752.57	0	0	1	\$0	\$0	\$44,753	\$44,753
D.26	Validate Refine Multi-Source Aquifer Model, Complex Soil Model with Data Collected from Task C	\$ 65,385.35	0	0	1	\$0	\$0	\$65,385	\$65,385
D.27	Draft Task D Final Report	\$ 28,500.00	0	0	1	\$0	\$0	\$28,500	\$28,500
D.28	Task D Final Report	\$ 12,500.00	0	0	1	\$0	\$0	\$12,500	\$12,500
D.29	Change-order Allowance	\$ 10,000.00	0	1	0	\$0	\$10,000	\$0	\$10,000
E	Task E: Project Management, Coordination, and Meetings					\$90,695	\$77,932	\$249,247	\$417,874
E.1	Project Kick-Off Meeting (conference call)	\$ 7,724.00	1	0	0	\$7,724	\$0	\$0	\$7,724
E.2	PM-Project Progress Reports (per quarterly report)	\$ 9,298.00	6	4	12	\$55,788	\$37,192	\$111,576	\$204,556
E.3	RRAC or TRAP Presentation (per meeting)	\$ 11,732.25	2	1	4	\$23,465	\$11,732	\$46,929	\$82,126
E.4	RRAC or TRAP Meeting Attendance (per meeting)	\$ 3,718.05	1	1	4	\$3,718	\$3,718	\$14,872	\$22,308
E.5	PAC Meetings (per meeting)	\$ 25,290.00	0	1	3	\$0	\$25,290	\$75,870	\$101,160
F	Task F: Other								
PROJECT TOTALS						\$783,561	\$2,069,809	\$2,146,590	\$4,999,960

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This amendment shall begin on October 15, 2010, or the date on which the amendment has been signed by both parties, whichever is later.

All provisions in the contract and any attachments thereto in conflict with this amendment shall be and are hereby changed to conform with this amendment.

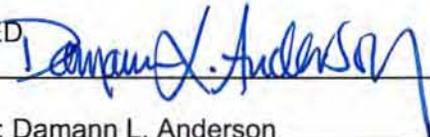
All provisions not in conflict with this amendment are still in effect and are to be performed at the level specified in the contract.

This amendment and all its attachments are hereby made a part of the contract.

IN WITNESS THEREOF, the parties hereto have caused this 7 page amendment to be executed by their officials thereunto duly authorized.

STATE OF FLORIDA
DEPARTMENT OF
HEALTH

PROVIDER: Hazen and Sawyer, P.C.

SIGNED
BY: 

NAME: Damann L. Anderson
TITLE: Vice President

DATE: October 21, 2010

FEDERAL ID NUMBER:

13-2904652

SIGNED
BY: 

NAME: Shairi Turner, M.D., M.P.H.
TITLE: Deputy Secretary of Health

DATE: 10-26-10

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