

**DEPARTMENTAL INPUT
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

Rev 1

New contract
 OTR
 CO
 SS
 BW
 Emergency

Previous Contract/Project No:
BW9429-0/11

Re-Bid
 Other (Government Access)

LIVING WAGE APPLIES: YES NO

Requisition/Project No: ROWS1400002

TERM OF CONTRACT: 1 years with 0 one-year options-to-renew

Requisition/Project Title: Seismic Reflection Data Survey

Description:

The Miami-Dade Water and Sewer Department is requesting the services of Walker Marine Geophysical Company, LLC to acquire and process seismic reflection data.

Walker Marine will be responsible for acquiring and processing the data from (1) approximately 1622 line-miles of seismic reflection data; 2D in the Intracoastal Waterway (ICW), marine long offset 2D around Virginia Key, offshore, inland canals, land, and marine 3D over the Key Biscayne Sinkhole, marine 3D over Miami Sinkhole, and marine 3D over one Biscayne Bay site, one Pourtales Terrace sinkhole, and one Miami Terrace structural site; (2) South Miami Heights land 3D, and CIN and C1W canals 2D marine seismic; (3) Southwest Well Field 3D land seismic, and (4) West Wellfield 3D land seismic, and West District Waste Water Treatment Plant 3D land seismic (See the attached scope of work that will be performed by the vendor).

User Department(s): Miami Dade Water and Sewer Department

Issuing Department: ISD Contact Person: Celeste S. Walker Phone: 305-375-5683

Estimated Cost: \$10,754,771.00 Funding Source: WASD Proprietary Revenue REVENUE GENERATING: No

ANALYSIS

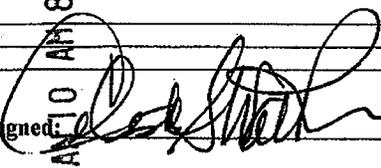
Commodity/Service No: <u>918-12, 968-77</u>		SIC: _____	
Trade/Commodity/Service Opportunities			
Contract/Project History of Previous Purchases For Previous Three (3) Years Check Here <input type="checkbox"/> if this is a New Contract/Purchase with no Previous History			
	EXISTING	2ND YEAR	3RD YEAR
Contractor:	Walker Marine Geophysical Co., LLC		
Small Business Enterprise:			
Contract Value:	\$98,500.00		
Comments:			
Continued on another page (s): <u> </u> Yes <input checked="" type="checkbox"/> No			

RECOMMENDATIONS

SBE	Set-Aside	Sub-Contractor Goal	Bid Preference	Selection Factor
		%		
		%		

Basis of Recommendation: _____

RECEIVED
 DEPT. BUSINESS DEV.
 2014 JAN 10 AM 8:50

Signed:  1/9/14

Date to SBD: 01/10/14

Date Returned to DPM: _____

WALKER MARINE GEOPHYSICAL COMPANY, LLC

**7061 NE 8TH Drive
Boca Harbour Island
Boca Raton, FL 33487**

**CAMERON WALKER
TRINNY L. WALKER**

**MAIN: 561 251 5352
FAX: 561 245 8111**

walkermarine@yahoo.com
www.walkermarinegeo.com

2 January 2014

Dr. Virginia Walsh
Senior Professional Geologist
Chief Hydrogeology Section
Miami Dade Water and Sewer Department
3071 SW 38th Ave Room 554-10
Miami, FL 33146
786-552-8266
walshv@miamidade.gov

Re: Miami-Dade 2013 seismic reflection program: (1) regional offshore-onshore project, (2) South Miami Heights 3D, (3) Southwest Well Field 3D, (4) West Wellfield 3D and West District Waste Water Treatment Plant 3D.

Dear Virginia,

Here is the cost and technical proposal to acquire and process the data from (1) approximately 1622 line-miles of seismic reflection data; 2D in the Intracoastal Waterway (ICW), marine long offset 2D around Virginia Key, offshore, inland canals, land, and marine 3D over the Key Biscayne Sinkhole, marine 3D over Miami Sinkhole, and marine 3D over one Biscayne Bay site, one Pourtales Terrace sinkhole, and one Miami Terrace structural site; (2) South Miami Heights land 3D, and C1N and C1W canals 2D marine seismic; (3) Southwest Well Field 3D land seismic, and (4) West Wellfield 3D land seismic, and West District Waste Water Treatment Plant 3D land seismic. Data interpretation is not included.

Please note that all the seismic lines listed in the Appendix are included in the quote. Line lengths (line-miles +/-) given in the cost by program (Bay, Canal, Offshore and 3D) are not the sole basis for cost/line-mile. Likewise, data processing costs vary with each program and are not the sole basis for cost/shot point. If there are adjustments to be made to the count or length of various lines in each program, each program's acquisition and processing costs will have to be recalculated *in toto*.

COST (PROGRAM)

Total estimated 2D/3D project (items 1-4) cost is **\$10,754,771.00**

COST (Item 1)

Item (1) approximately 1622 line-miles marine seismic: Total: **\$3,908,460.00**

Data Acquisition

- 247+/- line-miles bay and ICW @ \$456,350.00,
- 348+/- line-miles canal @ \$919,000.00,
- 672+/- line-miles including Key Biscayne sinkhole 3D and Miami Terrace structural site @ \$898,529.00,
- 202+/- line-miles 3D Miami Sinkhole and Pourtales Terrace sinkhole @ \$250,172.00,
- 2+/- line-miles land @ \$87,125.00 and
- 151+/- line-miles Biscayne Bay 3D @ \$273,400.00.
- Total acquisition= \$2,884,576.00.

Design

- Design, planning, parameter testing @ \$44,000.00

Data Processing

- data processing @ \$579,934.00

Mobilization

- mobilization/demobilization @ \$399,950.00 paid up front
- all labor and materials
- weather downtime is charged at the following day rate: \$8996 for canal work, \$17,672 for bay marine, \$30,907 offshore, and \$9,987 for land/vibrator work

ITEM (1) PROGRAM PARAMETERS

- 247+/- line-miles in Biscayne Bay, Florida Bay/Card Sound and the ICW, 35 lines
- 348+/- line-miles in canals, 39 lines
- 672+/- line-miles offshore, (2) Key Biscayne sinkhole and Miami Terrace structural site 3D(134 lines each), ~308 lines
- 202+/- line-miles of 3D over Miami Sinkhole and Pourtales Terrace sinkhole, ~268 lines
- 2+/- line miles land, ~7-10 lines
- 151+/- line-miles Biscayne Bay 3D, 100 sail lines, 100 cross lines, with tails, 40ft line spacing, ~200 lines

ITEM (1) TECHNICAL SPECIFICATIONS

Seismic Vessels:

RV Dragon (built 2012); 42'X12'X1.2' aluminum survey vessel with 2X250HP waterjets will run all the Bay and ICW profiles.

DiscoVolante (built 2012); 28'X8'X1.6' aluminum survey vessel with 2X225HP waterjets will run all canal lines plus serve as chaseboat for bay and offshore.

We'll See (1979) Hatteras 53; 53'X13'X7' fiberglass vessel with twin Detroit 871 turbos serves as accommodation for crew on extended reaches in the Keys and Florida Bay.

Offshore Catamaran (built 2000); 96'X40'X6' aluminum survey vessel with 2X750HP standard propeller drive will run all the offshore 24-hr operations.

Land lines will be run using "nodes" and downhole seismic source or air gun in nearby waterways.

Recorder: 72-192 channel, 24-bit, 1/4-ms sample interval, 2 sec record length with 240 channel option for acquisition in Biscayne Bay, Florida Bay/Card Sound, parts of the ICW, off shore and 3D over the Key Biscayne Sinkhole and other submarine sinkholes in deep water, all where feasible. Shot point interval will vary in multiples of 3.125m. Nominal shot point spacing for all offshore and Bay work will be 12.5m and 6.25m in the canals when feasible.

Streamer: digital streamers with 3.125m group spacing

72 channels = 225m

96 channels = 300m

144 channels = 2X72 channels dual streamer configuration (3Ds)

192 channels = 600m (to be used in Biscayne Bay, Florida Bay/Card Sound, the ICW where feasible, offshore and 2X96 3D Key Biscayne and TBD if the 240 channel system is not feasible)

240channels = 750m (to be used for acquisition in Biscayne Bay, Florida Bay/Card Sound, the ICW where feasible, offshore and 3D Key Biscayne and other sinkholes in deep water where feasible)

Source: Bolt 2800LLX, 20-40 in³ array

Navigation: DGPS, or RTK Float

ITEM (1) DISCUSSION

The marine seismic data acquisition in Biscayne Bay, Florida Bay/Card Sound area, the ICW, marine terrace and Biscayne Bay 3D production rate can average 12-17 line miles per day plus 5-6 days mobilization/demobilization. The *RV Dragon* will carry up to 750m of streamer (240 channels) for high resolution imaging down to 2 seconds two-way-time.

Offshore, the *Offshore Catamaran*, will carry 192-240 channels and can deploy 2X72 to 2X96 for the 3Ds. Working 24 hours per day, we can achieve production over a 20-hour period of 50-65 line-miles, and around 40 line-miles on tight 3D programs due to the high number of turns.

Disco Volante is used in the canals and as a support/chaseboat in bay and ICW surveys for *Dragon*. The canal program (348 line-miles) production rate will often be only 1-2 miles per day. There will be on the order of 70 crane lifts to get around bridges, land and other obstacles. *Disco Volante* carries 72 channels maximum.

Walker Marine will be making near real time single channel gathers during marine acquisition, and brute stacks post-acquisition.

COST (Items 2-4)

Items (2-4) 3D land seismic data acquisition and processing at South Miami Heights, Southwest Well Field, West Well Field, and West District WWTP: Total: **\$6,846,311.00.**

South Miami Heights

3D Data acquisition

- (South Miami Heights @ \$1,869,011.00,
- C1N & C1W canals @ \$62,779.00,

3D Data processing

- South Miami Heights @ \$75,775.00,
- C1N & C1W canals @ \$12,556.00,

Design

- Design and parameter testing @ \$59,500.00

Mobilization

- mobilization/demobilization @ \$484,700.00 up front

Total: \$2,564,321.00

Southwest Well Field

3D Data acquisition

- Southwest Well Field @ \$576,012.00

3D Data processing

- Southwest Well Field @ \$57,503.00

Design

- Design and parameter testing (see South Miami Heights)

Mobilization

- mobilization/demobilization (see South Miami Heights)
- all labor and materials
- weather downtime is charged at the following day rate: \$8996 for canal work, \$17,672 for Bay marine, \$30,907 offshore, and \$9,987 for land/vibrator work

Total: \$633,515.00

West Well Field

3D Data acquisition

- West Well Field @ \$576,012.00).

3D Data processing

- West Well Field @ \$57,503.00.

Design

- Design and parameter testing (see South Miami Heights)

Mobilization

- mobilization/demobilization (see South Miami Heights)
- all labor and materials
- weather downtime is charged at the following day rate: \$8996 for canal work, \$17,672 for Bay marine, \$30,907 offshore, and \$9,987 for land/vibrator work

Total: \$633,515.00

West District Waste Water Treatment Plant

3D Data acquisition

- West District Waste Water Treatment Plant @ \$2,755,520.00

3D Data processing

- West District Waste Water Treatment Plant @ \$259,440.00

Design

- Design and parameter testing (see South Miami Heights)

Mobilization

- mobilization/demobilization (see South Miami Heights)
- all labor and materials
- weather downtime is charged at the following day rate: \$8996 for canal work, \$17,672 for Bay marine, \$30,907 offshore, and \$9,987 for land/vibrator work

Total: 3,014,960.00

NOTE

Design and mobilization are cost items for South Miami Heights assuming that the program will proceed to SWF, WWF, and WDWWT. If the projects at SWF, WWF, and WDWWT follow more than 30 days after the completion of SMH, then new design and mobilization costs will apply.

ITEMS (2-4) PROGRAM PARAMETERS

- minimum 225 nodes active per patch for land 3D acquisition
- number of patches per site dependent on accessibility
- nominal marine channels = 72

ITEMS (2-4) TECHNICAL SPECIFICATIONS

ITEMS (2-4) LAND

Receivers:

- Nodes: 240-1200+ ION Hawk or equivalent wireless, single marsh geophones (point receivers)

Source:

- IVI 26,000 pound-force vibrator, EnviroVibe2, or equivalent.

Positioning:

- built-in DGPS

ITEM (2-4) MARINE (Canals only)

Receivers:

- Streamers with 72 hydrophone channels on 3.125m group spacing
- Bolt high resolution pneumatic sound source mini-array.

Positioning:

- Trimble SPS851 and 551H DGPS

ITEM (2-4) DISCUSSION

At South Miami Heights land receiver and source locations will be irregular due to the urban environment including both residential and commercial properties. We will lay out receiver nodes along street rights-of-way close to the pavement while the vibrator will travel along streets and cross streets.

Urban geophysics involves a larger crew that has to deploy and retrieve the receiver nodes daily thus increasing time involved in data acquisition. There is more planning and coordinating in the public areas. Weekends may require assigning extra manpower on foot around the operation in neighborhoods for safety and security.

GENERAL VIBROSEIS LAND METHOD

A patch of seismic reflection receivers will be laid out in an areal pattern along streets using “nodes” for unsupervised recording. The seismic source will be a 26,000 pound-force vibrator able to sweep through several octaves up to 150Hz and provide adequate source strength to image to a depth of about 4000ft below ground surface. Because there are numerous cultural obstacles at the sites, we will work around buildings and roads and move the 225 or more nodes in patches and vibrate around and through the patches to maximize fold. The data will be processed in 3D. Only if coverage is somewhat less than ideal 3D due to obstructions, we will process the data as 2.5D.

GENERAL CANAL MARINE METHOD

The seismic vessel *Disco Volante* is a new purpose-built aluminum barge with waterjet propulsion for working in shallow water with all the attendant safety and versatility of jet drives rather than propellers. The vessel is trailered to launch sites. Where no ramps are available, the boat is lifted into the canals by crane. The streamers are first deployed and the pneumatic sound source array follows. Data acquisition is continuous as the vessel tows the streamer and source array at a constant speed of 2-3 knots or so along the canal. Where there are low bridges and crossing pipelines, the vessel must be lifted out and relaunched to the next canal section. All canal data is acquired and displayed in 2D.

DATA PROCESSING

Processing normally begins with resampling the data to ½-ms based on expected frequency and bandwidth. The oversampled data will be stored for future re-processing at the faster sample rate as data processing technology progresses.

MOBILIZATION/DEMOBILIZATION

This item includes in-transit and equipment costs associated with the project. Mobilization and advances are payable in advance.

EXPENSES

All expenses including fuel&lube, accommodations, subsistence, and travel are included in this quote.

- **Permits & permitting** are client costs
- **Weather or Client downtime** are client costs as negotiated

LABOR AND MATERIALS

This proposal includes all labor, material equipment and any other incidental costs needed to fully complete this scope of work, with the exception of permitting and permitting costs.

PROJECT CONTRACT DURATION

The contract for this proposal will be for 3 years.

This quote is good until 2 Feb 2014.

Sincerely yours,

Cam

APPENDIX A

SURVEY LINES AND NAMES

B = Biscayne Bay, ICWW, Fl Bay
 C = Canal
 CB = Canal/Bay
 O = Offshore
 L = Land
 TP = Treatment Plant
 3D = Sinkholes or other collapse

Line number	Line-miles	
MD13_2	5.5	B
MD13_4	6.0	B
MD13_6	4.6	B
MD13_7	9.5	B
MD13_12	4.8	B
MD13_13	3.6	B
MD13_14	10.2	B
MD13_15	18.5	B
MD13_21	8.5	B
MD13_25	0.7	B
MD13_28	2.7	B
MD13_29	7.4	B
MD13_30	30.5	B
MD13_38	3.5	B
MD13_51	19.3	B
MD13_57	6.6	B
MD13_34	26.2	C
MD13_22	9.5	C
MD13_1	6.5	C
MD13_3	4.1	C
MD13_5	2.7	C

MD13_16	3.8	C
MD13_17	1.4	C
MD13_18	0.9	C
MD13_19	0	C
MD13_31	9.7	C
MD13_32	10.7	C
MD13_33	1.8	C
MD13_40	0.6	C
MD13_41	3.6	C
MD13_42	12.9	C
MD13_43	13.7	C
MD13_44	3.0	C
MD13_45	4.0	C
MD13_46	3.2	C
MD13_47	2.0	C
MD13_65	0.5	C
MD13_66	0.4	C
MD13_74	0.8	C
MD13_11	6.9	CB
MD13_20	10.7	CB
MD13_39	9.5	CB
MD13_71	3.5	CB
MD13_72	15.1	CB
MD13_23	0	L
MD13_24	0	L
MD13_48	0	L
MD13_8	4.0	O
MD13_10	1.8	O
MD13_27	19.0	O
MD13_35	6.8	O
MD13_36	5.7	O
MD13_37	5.6	O
MD13_49	7.0	O
MD13_50	8.4	O
MD13_52	18.8	O
MD13_53	4.9	O
MD13_55	11.3	O
MD13_56	2.8	O
MD13_58	1.9	O

MD13_59	14.8	○
MD13_60	22.8	○
MD13_61	11.4	○
MD13_73	16.8	○
MD13_9	12.0	○
MD13_26	5.2	○
MD13_64	0.1	TP
MD13_67	0.2	TP
MD13_68	0.1	TP
MD13_69	0.1	TP
MD13_70	0.2	TP
MD13_54		
MD13_76	6.2	B
MD13_77	4.4	B
KBSINK13	31.0	3D
VA KEY	50.0	2D
3D SINK	151.0	3D
MARATHON	42.3	2D

APPENDIX B

Line coordinates, FL State Plane E0901, NAD 1983

Easting	Northing	Line Name
873527.14	411051.561	
869674.127	411527.444	MD13_2
871905.855	413683.688	
903576.703	414248.183	MD13_4
872066.671	431530.949	
896018.365	431530.949	MD13_6
891161.074	397651.347	
891029.796	447697.85	MD13_7
888571.613	471495.292	
905276.755	452259.765	MD13_12
898115.533	481406.79	
913957.521	470845.465	MD13_13
895079.726	479598.434	
948752.788	480940.753	MD13_14
907531.456	472509.415	
943636.223	573852.846	MD13_15
904413.601	494570.704	
944843.982	514078.634	MD13_21
937256.106	514423.239	
938260.384	518076.053	MD13_25
925096.47	524872.977	
937866.549	518719.315	MD13_28
925322.924	527918.63	
961007.601	511919.108	MD13_29
949399.332	513806.231	
956488.351	674884.491	MD13_30
942891.219	571240.411	
943035.625	588743.067	MD13_38
801980.562	388747.408	
859710.117	317003.912	MD13_51
854747.804	358986.657	

874682.388	331323.074	MD13_57
893172.912	541486.224	
933596.728	515522.693	MD13_22
837018.694	410808.697	
871275.72	411071.253	MD13_1
850261.374	414815.961	
869674.127	411527.444	MD13_3
858095.397	433047.211	
871134.596	431553.922	MD13_5
837852.31	519306.785	
857993.656	519132.841	MD13_16
842109.003	519612.007	
842726.01	527035.785	MD13_17
848072.312	519378.988	
848009.955	524295.354	MD13_18
845029.941	525165.071	
		MD13_19
941223.987	549248.043	MD13_31
897610.112	575359.262	
943934.881	560025.977	MD13_32
932037.8	569356.57	
940485.548	568201.323	MD13_33
894354.415	526970.145	
910629.62	528345.284	MD13_40
884682.499	547961.518	
883579.763	529756.524	MD13_41
892779.077	541834.111	
840185.778	584965.539	MD13_42
839890.403	584765.34	
821347.367	519523.394	MD13_43
821839.66	519218.172	
837665.238	519303.503	MD13_44
873635.445	558824.782	
894584.151	559218.617	MD13_45
856769.487	590452.965	
840005.271	590397.172	MD13_46
840231.726	585346.246	
839798.508	595999.466	MD13_47
871610.48	442016.789	
873815.952	440487.399	MD13_65
873904.565	440470.989	
876247.879	440497.245	MD13_66

871416.844	438055.471	
875834.353	438098.137	MD13_74
872778.855	469371.868	
906806.145	465125.021	MD13_11
880806.512	514118.017	
929658.384	485817.735	MD13_20
858787.889	519395.398	
904817.281	532024.353	MD13_39
878443.506	502778.869	
895877.241	431422.644	MD13_71
821708.382	482453.733	
878880.006	437067.604	MD13_72
801412.784	390559.046	
821399.879	518853.875	MD13_34
934814.333	513816.077	
936826.17	516310.362	MD13_23
936937.756	514170.528	
934653.517	516303.798	MD13_24
936392.952	577817.445	
936665.354	575995.961	MD13_48
931676.786	437359.697	
952290.733	432298.926	MD13_8
932907.518	434251.688	
934568.186	443506.796	MD13_10
940285.349	513156.405	
1039160.75	497964.244	MD13_27
941296.19	570364.13	
977243.423	570584.021	MD13_35
945129.511	580784.331	
975992.999	580925.455	MD13_36
945854.823	587367.929	
976360.577	587495.925	MD13_37
960393.875	725006.479	
997637.479	722909.311	MD13_49
946146.917	640578.235	
991112.957	640827.663	MD13_50
939855.413	501147.738	
1037788.894	485092.424	MD13_52
982451.882	513957.201	
979343.873	488564.73	MD13_53
897406.631	381832.332	
855952.281	339061.919	MD13_55
872224.205	362209.535	

876635.15	347956.012	MD13_56
862017.331	337811.495	
871433.254	340509.261	MD13_58
884232.871	332412.682	
947666.461	286987.169	MD13_59
934210.453	426506.278	
882572.203	318014.754	MD13_60
924006.861	406401.034	
984046.912	406328.831	MD13_61
933918.36	425206.625	
949540.456	513806.231	MD13_73
889946.752	454353.651	
950915.595	436709.871	MD13_9
935053.915	520931.352	
955113.213	502595.08	MD13_26
872549.118	442899.634	
872552.400	442358.112	MD13_64
873248.174	441215.992	
874222.914	440960.000	MD13_67
875171.399	440828.722	
875827.789	440835.286	MD13_68
875827.789	440835.286	
875798.252	441258.658	MD13_69
875788.406	441964.278	
875794.970	443227.830	MD13_70
875790	441966	

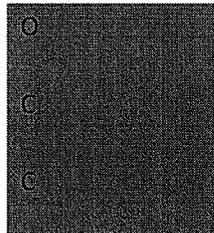
Lines MD13-65, MD13-66, and MD13-75 are covered by line MD13-72.

888375	423382	MD13_76
919384	413757	
911134	427969	MD13_77
910837	404748	

3D GRID CENTER

993135 499174 KEY BISCAYNE SINKHOLE

882520	317570	MD13-78
704320	156730	
801270	430350	MD13-79
849470	414650	
811830	455760	MD13-80
859330	432570	



771410	118810	MD13-81	B
612800	283260		
702940	529520	MD13-82	C
821000	519380		
763080	519790	MD13-83	C
838360	628410		
703080	529520	MD13-84	C
697940	605630		
769750	668410	MD13-85	C
839890	585350		
839610	595630	MD13-86	C
838500	660220		
678770	668130	MD13-87	C
838500	660220		C
957081	722214	MD13-88	B
957811	727854		
954426	724627	MD13-89	C
957012	721277		
955051	722805	MD13-90	C
957204	722839		
877796	738128	MD13-91	C
951164	725546		
715160	639240	MD13-92	C
688070	678270		
704600	156450	MD13_100	■
490044	115760		
653350	138540	MD13_101	
701680	20000		

93	965566	516184	946640	398056	Structure-Tectonic
94	979713	488390	964859	397331	Structure-Tectonic
95	1003435	509956	987373	406199	Structure-Tectonic
96	1023793	507799	1009180	403801	Structure-Tectonic
97	938753	489808	1036623	473221	Structure-Tectonic
98	935593	476222	1034259	460901	Structure-Tectonic
99	933854	462015	1031576	446694	Structure-Tectonic
100	919022	454593	1031577	435487	Structure-Tectonic
101	951221	436908	1029200	423337	Structure-Tectonic
102	930229	426020	1027155	410233	Structure-Tectonic

103	997051	473758	999578	473421	Bisc Bay Collapse 3D
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	996616	471248	999224	470899	Bisc Bay Collapse 3D
104	889599	447065	892186	447090	Structure-Tectonic 3D
	889595	444532	892201	444540	Structure-Tectonic 3D
19	837751	527033	846970	527111	WDWWTP 3D land
	837984	519441	847813	519451	



Line Map of Miami-Dade Seismic Program 2013



INTERNAL SERVICES DEPARTMENT
PROCUREMENT MANAGEMENT SERVICES

Justification/Input Document for Non-Competitive Acquisition

It is the policy of Miami-Dade County to consistently purchase goods and services using full and open competition. The citizens of Miami-Dade County are best served when we make sound business decisions based on competitive bids or proposals. Early acquisition planning that includes consultation with Internal Service Department's procurement staff can help avoid delays and facilitates effective market research. However, there may be instances when other than full and open competition may be justified. When a user department(s) determines that other than full and open competition is necessary or in the best interest of the County, appropriate justification for that course of action must be submitted to ISD for approval and execution in order to waive the competitive bid/proposal process.

Please provide the information requested below to support the need and feasibility for waiving the competitive bid/proposal process:

Department:	Miami-Dade Water & Sewer		
Contact Person:	Virginia Walsh	Phone Number:	786-552-8266
Requisition No.:		Estimated Value:	\$10,754,771.00
Proposed Vendor:	Walker Marine Geophysical Company, LLC		
Previous Contract Number:	BW9429-0/14	Previous Contract Value:	\$98,500.00

Title: Miami-Dade Water and Sewer Seismic Program

Purpose of the Purchase

Please describe your minimum requirements and the benefits of making the acquisition.

In preparation for consent decree programmatic requirements, the Ocean Outfall Legislation (Section 403.086(9) Florida Statutes, and the South Florida Water Management District 20-year Water Use Permit (Permit #13-000017-W), the Miami-Dade Water and Sewer Department (MDWASD) Planning Division needs to conduct various types of 2D and/or 3D seismic studies at the following locations and areas: 1) Regional off-shore-onshore project including the Intracoastal Waterway, Virginia Key, Key Biscayne, Miami Sinkhole, and Biscayne Sites; 2) South Miami Heights; 3) Southwest Wellfield; and, 4) West Wellfield and West District Waste Water Treatment Plant. It is absolutely critical that accurate and current seismic surveys of these areas be obtained to allow for continued compliance with regulations. The complete scope of services for this planned purchase is attached to this justification/input document.

Best Interest of the County / Uniqueness of Product

Please provide a detailed description as to why a waiver of formal bidding is in the County's best interest (e.g., product standardization, compatibility, proprietary access or distributorship, how vendor is uniquely qualified to provide the needed product or service, etc.). Please note that a lack of advance planning is not an acceptable justification for a non-competitive acquisition.

Walker Marine has been qualified by the United States Geological Survey (USGS) to acquire data in canals, surface bodies of water and on land because they are the only contractor known to collect high resolution data in shallow water and in an aqueous environment with a hard limestone bottom. Conventional processors cannot capture the very sensitive data nor process it to the level of detail that is required for this seismic survey. Walker Marine acquired the



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original raw data and has been qualified by the USGS to understand vagaries in the data that are due to special conditions that existed during raw data acquisition and those caused by special environmental conditions. It is in the best interest of the County for WASD to hire Walker Marine directly than go through the USGS who would mark up the service substantially. Additionally, the vendor previously performed work at the North, Central and South District Wastewater Treatment Plants.

Market Research

Please describe your market research and the results thereof. This should include a description of other, similar sources or products available in the market if any and why they are not acceptable.

Walker Marine has been qualified by the USGS to acquire data in canals, surface bodies of water and on land because they are the only contractor known to collect high resolution data in shallow water and in an aqueous environment with a hard limestone bottom. They have been qualified to process very high resolution multi-channel data particularly in the critical areas of near-surface statistics, velocity analysis, shallow migration and marine shooting geometry. Given the specialized nature and level of detail required for this type of work that has been approved by the USGS which is a bureau within the United States Department of Interior, MDWASD abides by the decision of the higher authority and defers to their expertise in these areas.

Proposed Actions

Please describe the actions the department will take to overcome the present barriers to competition prior to any future acquisitions of this product or service.

This request is for needed seismic reflection programmatic services that WASD requires over the next few years as part of its consent decree programmatic requirements, the Ocean Outfall Legislation (Section 403.086(9) Florida Statutes, and the South Florida Water Management District 20-year Water Use Permit (Permit #13-000017-W),. Due to the unique and specialized nature of these services as described above, Walker Marine has been qualified by the USGS and as such is uniquely qualified to provide these types of services to MDWASD for this action and future actions (if indeed USGS continues to defer to their expertise in these areas).

Virginia Walsh, Senior Professional Geologist 786-552-8266
Contact Person and Phone Number

Department Director's Approval

12/19/13
Date Approved

Walters, Vivian (ISD)

From: Walker, Celeste (ISD)
Sent: Thursday, January 09, 2014 4:49 PM
To: Walters, Vivian (ISD)
Subject: SBD Project Review - RQWS1400002 Seismic Reflection
Attachments: SBD Input Doc-Seismic Reflection Data Survey Proj.pdf; WASD Seismic Reflective Survey Proj - Scope of Work.pdf

Hi Vivian,

Attached you will find a request for review for a WASD project. I have attached the Project measure document along with the scope of work.

If you need any additional information, please let me know.

Thanks,

Celeste S Walker, MBA
Procurement Contracting Manager
Miami Dade County
Internal Services Department/Procurement Management Division
111 N.W. 1st Street, Suite 1300
Miami, FL 33128-1977
Office: 305-375-5683 Fax: 305-372-4407

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