BALANCE	INVOICE		
DBL Contingency for additional drilling - LBMC approved 11/201			

2 \$ 12,845.00 \$ 12,845.00 Approved contingency amount remains - funds never transferred; account closed 5/23/12

\$0.00

### L31N Phase 1 - LBMC approved 11/15/2011; Dummy PO4500065150

36 \$ 197,193.24 \$ 197,193.24 Remaining funds transferred to line item 1 of new Dummy PO - L-31N Phase 2

\$0.00

# Dade-Broward Levee Phase 1 and L-31N seepage additional groundwater monitoring - LBMC approved 2/22/2013; Dummy PO4500065150 line 4

59,043.00 Remaining funds transferred to line item 3 of Dade-Broward Levee Construction Monitoring Phase 2 Dummy PO; 7/15/16 19 S 59,043.00 \$

\$0.00

### Dade-Broward Levee Mulching-LBMC approved 8/23/2013; Dummy PO4500065150

14 \$ 134,946.23 \$ 134,946.23 Remaining funds transferred to line item 2 of Dade-Broward Lee Construction/Monitoring Phase 1 Dummy PO; 7/24/15

\$0.00

#### **DUMMY PO 4500089001**

## Line Item 1: L-31N Phase 2 - LBMC approved 7/24/15

- 1 \$ 13,757,000.00 \$ 13,495.92 GT to MCI (\$9,322.92), AMEC (\$2,408.00),GCY (\$1,765.00); 8/17/15; accepted 12/11/15
- 2 \$ 13,743,504.08 \$ 241,631.05 GT to MCI (\$10,664.05), AMEC (\$26,637.00),GSI (\$204,330.00); 9/22/15; accepted 12/11/15
- **3** \$ 13,501,873.03 \$ 4,637.50 GT to NLT; 9/22/15; accepted 12/11/15
- **4** \$ 13,497,235.53 \$ 17,170.90 GT to MCI (\$8,159.58) and GCY (\$9,011.32); 10/23/15; accepted 12/11/15
- 5 \$ 13,480,064.63 \$ 235,310.90 GT to MCI (9,738.97), GCY (\$4,498.50), AMEC (\$5,774.67), HLC (\$75,000.00), GSI (\$140,298.76); 11/17/15; accepted 12/11/15
- 6 \$ 13,244,753.73 \$ 1,486,728.49 GT to GSI (\$1,065,395.24), GT to AMEC (\$10,916.60), GT to HLC (\$410,416.65); 12/14/15; accepted 4/19/16
- 7 \$ 11,758,025.24 \$ 1,761,743.90 GT to GSI (\$1,410,292.52), HLC (\$297,123.75), AMEC (\$38,974.25), NLT (\$1,662.50), MCI (\$13,690.88); 1/22/16; accepted 4/19/16
- 8 \$ 9,996,281.34 \$ 2,163,017.74 GT to GS (\$1,855,539.84), HLC (\$250,818.75), AMEC (\$47,751.99), MCI (\$8,907.16); 2/11/16; accepted 4/19/16
- 9 \$ 7,833,263.60 \$ 1,487,655.42 GT to GSI (\$1,226,334.76), HLC (\$191,779.87), AMEC (\$45,223.29), NLT (\$24,317.50); 3/11/16, accepted 4/19/16
- **10** \$ 6,345,608.18 \$ 75,915.15 GT to AMEC (\$38,400.15), NLT (\$37,515.00); 3/28/16; accepted 4/19/16
- 11 \$ 6,269,693.03 \$ 1,931,046.60 GT to GSI (\$1,870,975.82) NLT (\$47,012.50) MCI (\$9,655.68) GCY (\$3,402.60); 4/19/16; accepted 7/15/16
- 12 \$ 4,338,646.43 \$ 465,847.14 GT to GSI (\$333,182.36) AMEC (\$57,616.12) HLC (\$23,472.23) MCI (\$9,228.93) NLT (\$42,347.50); 5/18/16; accepted 7/15/16
- 13 \$ 3,872,799.29 \$ 161,303.43 GT to GSI (\$119,952.00) MCI (\$5,729.73) HA (\$19,050.00) LET (\$14,303.30) GCY (\$2,268.40); 6/14/16; accepted 7/15/16
- 14 \$ 3,711,495.86 \$ 262,304.34 GT to GSI (\$221,114.02) MCI (\$9,297.14) AMEC (\$31,893.18;) 8/11/16; accepted 3/17/17
- 15 \$ 3,449,191.52 \$ 15,508.09 GT to MCI (\$4,607.59) AMEC (\$437) NLT (\$87.50) WSM (\$10,376.00); 9/27/16; accepted 3/17/17

```
16 $ 3,433,683.43 $
                           1,675.18 GT to LET ($1,454.10) AMEC ($221.08); 11/14/16; accepted 3/17/17
17 $ 3,432,008.25 $
                           9,519.80 GT to MCI ($8,889.80) LET ($630.00); 11/14/16; accepted 3/17/17
18 $ 3,422,488.45 $
                           6,861.80 GT to MCI ($6,861.80); 1/31/17; accepted 3/17/17
19 $ 3,415,626.65 $
                          12,415.27 GT to MCI ($8,201.63) LET ($4,213.64); 3/7/17; accepted 3/17/17
20 $ 3,403,211.38 $
                           6,536.88 GT to LET ($3,692.20) MCI ($2,844.68); 7/11/17; accepted 8/25/17
21 $ 3,396,674.50 $
                           1,936.25 GT to MCI ($1,936.25); 8/1/17; accepted 8/25/17
22 $ 3,394,738.25 $
                           4,541.40 GT to MCI ($4,541.40); 10/5/17; accepted 3/21/18
23 $ 3,390,196.85 $
                           7,590.00 GT to MCI ($7,590.00); 11/8/17; accepted 3/21/18
24 $ 3,382,606.85 $
                           3,795.00 GT to MCI ($3,795.00); 12/14/17; accepted 3/21/18
25 $ 3,378,811.85 $
                           3,333.14 GT to MCI ($2,443.14) LET ($890.00); 2/6/18; accepted 3/21/18
   $ 3,375,478.71 $ 2,200,000.00 Transfer to line item 4 per 3/21/2018 LBMC Meeting
                           1,775.66 GT to MCI ($1,775.66); 4/13/18; accepted 9/19/18
26 $ 1,175,478.71 $
27 $ 1,173,703.05 $
                           4.903.01 GT to MCI ($4,903.01); 6/4/18; accepted 9/19/18
28 $ 1,168,800.04 $
                           8,806.24 GT to MCI ($6,461.09) LET ($2,345.15); 8/2/18; accepted 9/19/18
29 $ 1,159,993.80 $
                           4,369.00 GT to MCI ($4,369.00); 11/5/18; accepted 3/28/19
30 $ 1,155,624.80 $
                           5,767.38 GT to MIC ($5,767.38); 3/25/19; accepted 8/16/19
   $ 1,149,857.42 $ 1,149,857.42 Transfer to line item 4 per 3/28/2019 LBMC Meeting
              $0.00
```

## Line Item 2: Dade-Broward Levee Construction Monitoring Phase 1 - LBMC approved 7/24/15

\$0.00

```
1 $ 1,489,422.00 $
                           2,676.96 GT to MCI; 8/17/15; accepted 12/11/15
2 $ 1,486,745.04 $
                           2,318.35 GT to MCI; 10/23/15; accepted 12/11/15
                          28,750.00 GT to Miami-Dade County (Class III Permit fee); 11/17/15; accepted 12/11/15
 3 $ 1,484,426.69 $
 4 $ 1,455,676.69 $
                           1,802.86 GT to MCI; 1/22/16; accepted 4/19/16
 5 $ 1,453,873.83 $
                          10,000.00 GT to MCI; 3/28/16;accepted 4/19/16
 6 $ 1,443,873.83 $
                          43,223.76 GT to WSM ($7,593.60), JBS ($34,200.00), MCI ($1,430.16); 4/19/16; accepted 7/15/16
                        328,331.14 GT to GSI ($319,893.76) MCI ($7,537.38) ZK ($900.00); 6/14/16; accepted 7/15/16
7 $ 1,400,650.07 $
 8 $ 1,072,318.93 $
                        577,040.43 GT to GSI ($562,861.82) MCI ($3,498.61) ZK ($2,850.00) JBS ($7,830.00) 8/5/16; accepted 3/17/17
 9 $ 495,278.50 $ 347,321.06 GT to GSI ($344,771.06) ZK ($2,550.00) 8/19/16; accepted 3/17/17
        147,957.44 $
                          18,086.12 Transfer of $18,086.12 from Line Item 3 to Line Item 2 of Dummy PO 4500089001; 9/20/16; accepted 3/17/17
       166,043.56 $ 166,043.56 District to MDLPA c/o GT: refund of ROW bond (+$10,000.00); 9/15/16 and GT to GSI ($176,043.56); 11/14/16; accepted 3/17/17
10 $
```

Line Item 3: Dade-Broward Levee Construction Monitoring Phase 2 - LBMC approved 7/15/16

```
$ 3,040,957.00 July 2016 Check Request
   $ 3,040,957.00 $
                          59,043.00 Remaining funds transferred to line item 3 of Dade-Broward Levee Construction Monitoring Phase 2 Dummy PO; 7/15/16
                          18,086.12 Transfer of $18,086.12 from Line Item 3 to Line Item 2 of Dummy PO 4500089001; 9/20/16
   $ 3,100,000.00 $
 1 $ 3,081,913.88 $
                          18,621.18 GT to MCI ($7,206.78) ZK ($8,160.00) WSM ($3,254.40); 9/27/16; accepted 3/17/17
 2 $ 3,063,292.70 $
                           7,740.00 GT to ZK ($7,740.00); 11/14/16; accepted 3/17/17
 3 $ 3,055,552.70 $
                           5,606.81 GT to ZK ($1,440.00) MCI ($4,166.81); 11/14/16; accepted 3/17/17
 4 $ 3,049,945.89 $
                           8.280.00 GT to ZK ($8,280.00); 12/6/16; accepted 3/17/17
 5 $ 3,041,665.89 $
                           6,371.20 GT to ZK ($1,260.00)MCI ($5,111.20); 1/31/17; accepted 3/17/17
                          12,516.00 GT to ZK ($3,060.00) WSM ($9,456.00); 3/7/17; accepted 3/17/17
 6 $ 3,035,294.69 $
7 $ 3,022,778.69 $
                          11,397.10 GT to ZK ($4,680.00) MCI ($6,717.10) 4/4/17; accepted 8/25/17
 8 $ 3,011,381.59 $
                          17,640.00 GT to ZK ($17,640.00); 4/26/17; accepted 8/25/17
 9 $ 2,993,741.59 $
                           6,385.51 GT to ZK ($3,270.00); MCI ($3,115.51); 5/17/17; accepted 8/25/17
10 $ 2,987,356.08 $
                           9,918.11 GT to ZK ($6,660.00); MCI ($2,058.11); WSM ($1,200.00); 7/11/17; accepted 8/25/17
11 $ 2,977,437.97 $
                           9,180.00 GT to ZK ($9,180.00); 7/18/17; accepted 8/25/17
12 $ 2,968,257.97 $
                           7,274.14 GT to ZK ($4,860.00) MCI ($2,414.14); accepted 8/25/17
                          11,880.00 GT to ZK ($11,880.00); 9/18/17; accepted 3/21/18
13 $ 2,960,983.83 $
14 $ 2,949,103.83 $
                          11,661.34 GT to ZK ($7,020.00) MCI ($4,641.34); 10/5/17; accepted 3/21/18
15 $ 2,937,442.49 $
                          12,858.35 GT to ZK ($7,200.00) MCI ($3,273.35); MME ($2,385.00) 11/8/17; accepted 3/21/18
16 $ 2,924,584.14 $
                         948,324.90 GT to ZK ($8,640.00) INT ($934,675.00) MCI ($5,009.90); 12/18/17; accepted 3/21/18
17 $ 1,976,259.24 $
                           8,148.50 GT to ZK ($3,240.00) MCI ($4,908.50); 1/9/18; accepted 3/21/18
18 $ 1,968,110.74 $
                          11,302.23 GT to ZK ($6,840.00) MCI ($4,462.23); 2/6/18; accepted 3/21/18
19 $ 1,956,808.51 $
                        822,825.89 GT to ZK ($4,320.00) INT ($797,034.00) HEE ($21,471.89); 3/6/18; accepted 3/21/18
20 $ 1,133,982.62 $ 178,462.90 GT to INT ($178,462.90); 6/4/18; accepted 9/19/18
21 $
        955,519.72 $ 160,720.00 GT to INT ($160,720.00) 7/3/18; accepted 9/19/18
        794,799.72 $ 436,462.60 GT to INT ($436,462.60); 10/9/18; accepted 3/28/19
22 $
        358,337.12 $ 148,896.30 GT to INT ($148,896.30); 12/18/18; accepted 3/28/19
23 $
24 $
        209,440.82 $ 125,479.20 GT to INT ($125,479.20); 6/21/19; accepted 8/16/19
25 $
         83,961.62 $
                          83,961.62 GT to INT ($235,912.64 total paid); 7/1/19; $83,961.62 on line item 3 and $151,951.02 on line item 4; accepted 3/25/20
              $0.00
```

#### Line Item 4: Dade-Broward Levee Phase 3 Construction/Monitoring - LBMC approved 3/21/18

```
$ 2,200,000.00 Transfer to line item 4 per 3/21/2018 LBC Meeting
1 $ 2,200,000.00 $ 100,000.00 GT to MCI ($100,000.00); 4/3/18; accepted 9/19/18
 2 $ 2,100,000.00 $
                          10,868.05 GT to ZK ($6,480.00) MCI ($4,388.05); 4/13/18; accepted 9/19/18
 3 $ 2,089,131.95 $
                           9,360.00 GT to ZK ($9,360.00); 5/4/18; accepted 9/19/18
 4 $ 2,079,771.95 $
                          14,847.27 GT to ZK ($11,610.00) MCI ($3,237.27); 6/4/18; accepted 9/19/18
 5 $ 2,064,924.68 $
                          19,913.21 GT to ZK ($10,260.00) HEE ($9,653.21); 7/3/18; accepted 9/19/18
 6 $ 2,045,011.47 $
                          15,975.68 GT to ZK ($11,880.00) MCI ($4,095.68); 8/2/18; accepted 9/19/18
7 $ 2,029,035.79 $
                          11,689.26 GT to ZK ($8,910.00) HEE ($2,779.26); 10/9/18; accepted 3/28/19
 8 $ 2,017,346.53 $
                          16,078.45 GT to ZK ($11,520.00) HEE ($2,506.90) MCI ($2,051.55); 11/5/18; accepted 3/28/19
 9 $ 2.001.268.08 $
                          10,776.64 GT to ZK ($8,460.00) HEE ($2,316.64); 12/18/18; accepted 3/28/19
                           9,373.68 GT to ZK ($5,760.00) HEE ($3,613.68); 12/28/18; accepted 3/28/19
10 $ 1,990,491.44 $
11 $ 1,981,117.76 $
                           4,682.11 GT to ZK ($1,620.00) HEE ($3,062.11); 2/25/19; accepted 3/28/19
   $ 1,976,435.65 $ 1,149,857.42 Transfer to line item 4 per 3/28/2019 LBMC Meeting
12 $ 3,126,293.07 $
                           6,758.26 GT to ZK ($1,146) MCI ($5,612.26); 3/25/19; accepted 8/16/19
13 $ 3,119,534.81 $
                           5,186.99 GT to ZK ($3,960.00) MCI ($1,226.99); 3/25/19; accepted 8/16/19
14 $ 3,114,347.82 $
                           1,260.00 GT to ZK ($1,260.00) 6/21/19; accepted 8/16/19
15 $ 3,113,087.82 $
                           4,954.08 GT to MCI ($4,954.08) 6/10/19; accepted 3/25/20
   $ 3,108,133.74 $ 151,951.02 GT to INT ($235,912.64 total paid); 7/1/19; $83,961.62 on line item 3 and $151,951.02 on line item 4; accepted 3/25/20
16 $ 2,956,182.72 $
                           7,155.16 GT to MCI ($7,155.16) 7/1/19; accepted 3/25/20
17 $ 2,949,027.56 $
                           4,147.50 GT to MCI ($4,147.50) 11/15/19; accepted 3/25/20
18 $ 2,944,880.06 $
                           5,627.11 GT to MCI ($5,627.11) 2/5/20; accepted 3/25/20
   $ 2,939,252.95 $ 100,000.00 DERM Construction Bond Refund 3/19/2020
19 $ 3,039,252.95 $
                           2,118.00 GT to MCI ($2,118) 3/31/20; accepted 8/25/20
20 $ 3.037.134.95 $
                          11,024.40 GT to MCI ($11,024.40) 7/27/20; accepted 8/25/20
21 $ 3,026,110.55 $
                           2,162.25 GT to MCI ($2,162.25) 10/26/20; accepted 3/16/21
22 $ 3,023,948.30 $
                           4,511.58 GT to MCI ($4,511.58) 4/22/21; accepted 3/16/21
23 $ 3,019,436.72 $
                           5,944.34 GT to MCI ($5,944.34) 3/2/21; accepted 8/19/21
24 $ 3,013,492.38 $
                           2,607.97 GT to MCI ($2,607.97) 6/2/21; accepted 8/19/21
25 $ 3,010,884.41 $
                           1,739.30 GT to MCI ($1,739.30) 9/8/21; accepted 3/03/22
                           7,087.18 GT to MCI ($7,087.18) 12/2/21; accepted 3/03/22
26 $ 3,009,145.11 $
27 $ 3,002,057.93 $
                           2,579.31 GT to MCI ($2,579.31) 3/8/22; accepted 8/18/22
28 $ 2,999,478.62 $
                           1,460.22 GT to MCI ($1,460.22) 6/3/22; accepted 8/18/22
29 $ 2,998,018.40 $
                           1,155.00 GT to MCI ($1,155) 9/6/22; accepted 3/16/23
                           3,074.65 GT to MCI ($3,074.65) 12/6/22; accepted 3/16/23
30 $ 2,996,863.40 $
31 $ 2,993,788.75 $
                           5,060.84 GT to MCI ($5,060.84) 3/20/23;
32 $ 2,988,727.91 $
                           1,732.50 GT to MCI ($1,732.5) 6/7/23;
```

<b>33</b> \$	2,986,995.41	\$ 4,620.41	GT to MCI (\$4,620.1) 9/7/23
<b>34</b> \$	2,982,375.00	\$ 1,540.00	GT to MCI (\$1,540) 12/7/23
<b>35</b> \$	2,980,835.00	\$ 4,031.92	GT to MCI (\$4031.92) 3/6/24
<b>36</b> \$	2,976,803.08		

#### **DUMMY PO 4500091859**

## Line Item 1: Lake Belt Water Quality Monitoring - LBMC approved 12/11/15

```
450,000.00 January 2015 Check Request
 1 $
        450,000.00 $
                        222,063.64 GT to MCI ($90,000.00 Jan 2016 to Mar 2016 estimate) and ($132,063.64 Jul 2015 to Dec 2015 invoices); 1/22/16; accepted 4/19/16
        227,936.36 $
                         60,445.08 GT to MCI ($60,445.08 based on Jan-Mar 2016 expenditures); 4/19/16; accepted 7/15/16
 2 $
                        266,921.00 July 2016 Check Request
   $
        167,491.28 $
 3 $
        434,412.28 $
                         74,483.49 GT to MCI ($74,483.49); 8/11/16; accepted 3/17/17
 4 $
        359,928.79 $
                         71,491.57 GT to MCI ($71,491.57); 11/14/16; accepted 3/17/17
 5 $
        288,437.22 $
                         19,404.00 GT to MCI ($19,404.00); 1/31/17; accepted 3/17/17
        269,033.22 $
                         73,159.59 GT to MCI ($73,159.59); 4/26/17; accepted 8/25/17
 6 $
 7 $
        195.873.63 $
                         61,242.92 GT to MCI ($61,242.92); 7/11/17; accepted 8/25/17
                        225,298.00 August 2017 Check Request
   $
        134,630.71 $
 8 $
        359.928.71 $
                          9,761.28 GT to MCI ($9,761.28); 9/18/17; accepted 3/21/18
 9 $
        350,167.43 $
                         38,194.35 GT to MCI ($38,194.35); 12/14/17; accepted 3/21/18
        311,973.08 $
                         13,224.27 GT to MCI ($13,224.27); 3/18/18; accepted 3/21/18
10 $
                         46,108.97 GT to MCI ($46,108.97); 6/4/18; accepted 9/19/18
11 $
        298,748.81 $
   $
                        107,289.00 September 2018 Check Request
        252,639.84 $
12 $
        359,928.84 $
                         19,026.18 GT to MCI ($19,026.18); 10/9/18; accepted 3/28/19
13 $
        340,902.66 $
                         37,778.34 GT to MCI ($37,778.34); 12/28/18; accepted 3/28/19
14 $
        303,124.32 $
                         12,623.06 GT to MCI ($12,623.06); 3/25/19; accepted 8/16/19
        290,501.26 $
                         43,985.34 GT to MCI ($43,985.34); 6/10/19; accepted 3/25/20
15 $
16 $
        246,515.92 $
                         20,457.32 GT to MCI ($20,457.32); 9/5/19; accepted 3/25/20
                         37,119.82 GT to MCI ($37,119.82); 12/4/19; accepted 3/25/20
17 $
        226,058.60 $
        188,938.78 $
                        131,149.00 March 2020 Check Request
        320.087.78 $
                         29,586.97 GT to MCI ($29,586.97) 3/27/20; accepted 8/25/20
18 $
19 $
        290,500.81 $
                         15,266.33 GT to MCI ($15,266.33) 7/27/20; accepted 8/25/20
                         33,335.73 GT to MCI ($33,335.73) 10/26/20; accepted 3/16/21
20 $
        275,234.48 $
        241,898.75 $
                         51,119.30 GT to MCI ($51,119.30) 3/9/21; accepted 3/16/21
21 $
22 $
        190,779.45 $
                         49,568.56 GT to MCI ($49,568.56) 3/3/21; accepted 8/19/21
   $
                        149,290.00 March 2021 Check Request
        141,210.89 $
23 $
        290,500.89 $
                         64,375.44 GT to MCI ($64,375.44) 6/2/21; accepted 8/19/21
        226,125.45 $
                         42,153.20 GT to MCI ($42,153.20) 9/8/21; accepted 3/03/22
24 $
        183,972.25 $
25 $
                         61,430.85 GT to MCI ($61,430.85) 12/2/21; accepted 3/03/22
   $
        122,541.40 $
                        217,205.00 March 2022 Check Request
        339,746.40 $
                         49,245.44 GT to MCI ($49,245.44) 3/8/22; accepted 8/18/22
26 $
27 $
        290,500.96 $ 115,049.75 GT to MCI ($115,049.75) 6/3/22; accepted 8/18/22
28 $
        175.451.21 $
                         62,493.46 GT to MCI ($62,493.46) 9/6/22; accepted 3/16/23
```

- **29** \$ 112,957.75 \$ 78,811.38 GT to MCI (\$78,811.38) 12/6/22; accepted 3/16/23 \$ 34,146.37 \$ 286,273.00 March 2023 Check Request

30	\$	320,419.37	\$ 59,918.85	GT to MCI (\$59,918.85) 3/20/23;
31	\$	260,500.52	\$ 80,978.10	GT to MCI (\$80,978.10) 6/7/23;
32	\$	179,522.42	\$ 61,111.11	GT to MCI (\$61,111.11) 9/7/23
33	\$	118,411.31	\$ 43,410.42	GT to MCI (\$43,410.42) 12/8/23
34	\$	75,000.89	\$ 67,369.64	GT to MCI (\$67,369.64) 3/6/24
35	Ś	7.631.25		

# Invoices to be accepted by LBMC on 4/18/2024:

\$16,985.67	DBL Constn Mon Ph3
\$312,788.12	Water Quality Monitoring

\$329,773.79 TOTAL

# **Abreviation Key**

**AA**-Ardaman and Associates

**AMEC**- AMEC Environment and Infrastructure, Inc.

FLS – Fortin, Leavy & Skiles

**GCY**- Professional Surveyors & Mappers

**GSI** - Geo-Solutions, Inc.

**GT** - Greenberg Traurig

**HA** - Hydrologic Associates

**HEE** - Hillers Electical Engineering, Inc.

**HLC** - H.L. Chapman Pipeline Construction

INT - Interlaken, Inc.

JBS - John Brown Sons

**LET** – Locher Environmental Technology

MDC - Miami-Dade County

MDLPA – Miami Dade Limestone Products Association

**MEE** - Millers Electical Engineering, Inc.

**NLT** - New Line Transport, LLC

MCI – MacVicar Consulting, Inc.

**OUL** – Ozark Underground Laboratory

**TLEA** - Tom Lodge Ecological Advisors, Inc.

**WSM** - Whidden Surveying & Mapping **ZK** - Zan Kugler