

**TABLE 5.1**  
**TESTING SUMMARY - OBSERVATION WELLS**  
**EXELON TEXAS COL (Victoria) PROJECT**  
**MACTEC PROJECT NO: 6468-07-1777**  
**POWER BLOCK**

| Well Number | Drilling Method | Well Depth (ft) | Screen Interval (ft bgs) | Coordinates |            |               |               | Well Diameter (I.D. in.) | Testing      |                      |                        |
|-------------|-----------------|-----------------|--------------------------|-------------|------------|---------------|---------------|--------------------------|--------------|----------------------|------------------------|
|             |                 |                 |                          | Northing    | Easting    | TOC Elevation | Pad Elevation |                          | Slug Testing | 24-hour Pump Testing | Sampling for Chemistry |
| OW-2150L    | mud rotary      | 151.15          | 140 - 150                | 13412552.91 | 2599585.12 | 82.45         | 80.87         | 2                        | ✓            |                      |                        |
| OW-2150U    | mud rotary      | 66.15           | 55 - 65                  | 13412568.08 | 2599582.77 | 82.78         | 80.91         | 2                        | ✓            |                      |                        |
| OW-2169L    | mud rotary      | 101             | 90 - 100                 | 13412356.74 | 2599930.20 | 81.72         | 80.04         | 2                        | ✓            |                      | ✓                      |
| OW-2169U    | mud rotary      | 66              | 55 - 65                  | 13412343.77 | 2599945.85 | 81.77         | 80.11         | 2                        | ✓            |                      | ✓                      |
| OW-2181L    | mud rotary      | 101             | 90 - 100                 | 13412138.42 | 2600071.96 | 81.32         | 79.88         | 2                        | ✓            |                      |                        |
| OW-2181U    | mud rotary      | 51              | 40 - 50                  | 13412147.38 | 2600052.86 | 81.31         | 80.01         | 2                        | ✓            |                      |                        |
| OW-2185L    | mud rotary      | 101             | 90 - 100                 | 13412314.47 | 2600815.69 | 81.36         | 79.76         | 2                        | ✓            |                      |                        |
| OW-2185U    | mud rotary      | 76              | 65 - 75                  | 13412328.07 | 2600801.11 | 81.45         | 79.89         | 2                        | ✓            |                      |                        |
| OW-2253L    | mud rotary      | 146             | 135 - 145                | 13413584.76 | 2600494.74 | 82.82         | 81.18         | 2                        | ✓            |                      |                        |
| OW-2253U    | mud rotary      | 66              | 55 - 65                  | 13413591.55 | 2600474.37 | 82.66         | 81.17         | 2                        | ✓            |                      |                        |
| OW-2269L    | mud rotary      | 141.15          | 130 - 140                | 13413123.29 | 2600574.23 | 82.55         | 80.89         | 2                        | ✓            |                      | ✓                      |
| OW-2269U    | mud rotary      | 91.15           | 80 - 90                  | 13413110.10 | 2600589.08 | 82.43         | 80.75         | 2                        | ✓            |                      | ✓                      |
| OW-2284L    | mud rotary      | 111.06          | 100 - 110                | 13413063.71 | 2600939.04 | 82.74         | 80.98         | 2                        | ✓            |                      |                        |
| OW-2284U    | mud rotary      | 76.07           | 65 - 75                  | 13413055.14 | 2600956.60 | 82.62         | 80.97         | 2                        | ✓            |                      |                        |

ft bgs = feet below ground surface

Northings and Eastings provided in US feet (NAD83)

Elevations in feet (NAVD88)

Prepared by: WSB

Date: 11-5-09

Checked by: PSA

Date: 11-5-09

MACTEC Engineering and Consulting, Inc.  
Raleigh, NC

| <b>TABLE 5.2</b><br><b>SUMMARY OF GROUNDWATER FIELD MEASUREMENTS</b><br><b>OBSERVATION WELLS</b><br><b>EXELON TEXAS COL (Victoria) PROJECT</b><br><b>MACTEC PROJECT NO: 6468-07-1777</b><br><b>POWER BLOCK</b> |             |                  |      |                         |                                             |                 |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|------|-------------------------|---------------------------------------------|-----------------|-------------|
| Well ID                                                                                                                                                                                                        | Sample Date | Temperature (°C) | pH   | Dissolved Oxygen (mg/L) | Specific Conductivity (µS/cm <sup>2</sup> ) | Turbidity (NTU) | O.R.P. (mv) |
| OW-2169U                                                                                                                                                                                                       | 2/18/2008   | 22.85            | 6.91 | 1.46                    | 1179                                        | 10              | 135.9       |
| OW-2169L                                                                                                                                                                                                       | 2/18/2008   | 22.54            | 7.31 | 5.12                    | 1373                                        | 2               | 46.5        |
| OW-2269L                                                                                                                                                                                                       | 2/18/2008   | 23.10            | 6.83 | 0.95                    | 1358                                        | 116             | 55.1        |
| OW-2269U                                                                                                                                                                                                       | 2/18/2008   | 22.79            | 7.06 | 5.72                    | 1492                                        | 6               | 104.9       |

Observation wells purged in accordance with ASTM D 6452-99. Field parameters reported for the final stabilization reading.

Prepared by: LSR

Date: 7-10-08

Checked by: KAW

Date: 7-10-08



**TABLE 5.3**  
**SUMMARY OF GROUNDWATER TEST RESULTS**  
**OBSERVATION WELLS**  
**EXELON TEXAS COL (Victoria) PROJECT**  
**MACTEC PROJECT NO: 6468-07-1777**  
**POWER BLOCK**

| Analytical Method → |                | 160.1 | 6020C     |      |           |           |           |        |          |         | 300.0   |          |          |         |         |         | 310.1 - Alkalinity |           |       | 350.1     | SM18 1030F & API       |
|---------------------|----------------|-------|-----------|------|-----------|-----------|-----------|--------|----------|---------|---------|----------|----------|---------|---------|---------|--------------------|-----------|-------|-----------|------------------------|
| Constituent →       |                | TDS   | Calcium   | Iron | Magnesium | Manganese | Potassium | Silica | Silicon  | Sodium  | Bromide | Chloride | Fluoride | Sulfate | Nitrate | Nitrite | Bicarbonate        | Carbonate | Total | Ammonia*  | Ion Balance Difference |
| Well ID             | Date Collected | mg/L  | µg/L      |      |           |           |           |        |          |         | mg/L    |          |          |         |         |         | mg/L               |           |       | µg/L      | %                      |
| OW-2169 U           | 2/18/2008      | 642   | 53,200 N  | <500 | 14,000    | <20       | 2,620     | 44,300 | 20,700 N | 194,000 | 0.26    | 77.0     | 1.1      | 74.6    | 0.53    | <0.020  | 397                | <5.0      | 397   | 22.7 B, J | 2.3                    |
| OW-2169 L           | 2/18/2008      | 780   | 65,500 N  | <500 | 16,000    | 9.8 B     | 2,680     | 45,200 | 21,100 N | 218,000 | 0.36    | 119      | 1.1      | 122     | 0.47    | <0.020  | 398                | <10.0     | 398   | 22.7 B, J | 0.78                   |
| OW-2269 U           | 2/18/2008      | 801   | 116,000 N | <500 | 17,800    | <20       | 4,050     | 36,000 | 16,800 N | 181,000 | 0.72    | 224      | 0.45     | 105     | 0.59    | <0.020  | 339                | <5.0      | 339   | 22.7 B, J | 0.080 B                |
| OW-2269 L           | 2/18/2008      | 872   | 209,000 N | 873  | 2,740     | 14.3 B    | 16,100    | 17,800 | 8,320 N  | 160,000 | 0.57    | 214      | 0.38     | 23.9    | 0.097   | 0.19    | <25.0              | 324       | 592   | 72.8      | 0.28                   |

\* = Test conducted on Nitrogen, as Ammonia.

< # = Indicates analyte not detected at or above the method detection limit.

N = Spiked analyte recovery is outside stated control limits. Method performance confirmed using Laboratory Control Spike sample results.

B = Estimated result. Result is less than the reporting limit.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level. Therefore, these data should not be relied upon.

Prepared by: LSL Date: 7-10-08

Checked by: KAW Date: 7-10-08

**TABLE 5.4**  
**IN-SITU SLUG TEST RESULTS SUMMARY (ASTM D 4044-96(02))**  
**EXELON TEXAS COL (Victoria) PROJECT**  
**MACTEC PROJECT NO: 6468-07-1777**  
**POWER BLOCK**

| Slug Test ID | Well Depth (ft bgs) | TOC Elevation (ft NAVD88) | Screen Interval (ft bgs) | Falling Head Test Results in ft/day |          | Rising Head Test Results in ft/day |          | Notes                                                                                                      |
|--------------|---------------------|---------------------------|--------------------------|-------------------------------------|----------|------------------------------------|----------|------------------------------------------------------------------------------------------------------------|
|              |                     |                           |                          | Bouwer & Rice                       | Butler   | Bouwer & Rice                      | Butler   |                                                                                                            |
| OW-2150 U    | 67                  | 82.78                     | 55 - 65                  | 5.45E-02                            | 8.47E-02 | 2.46E+00                           | 4.46E+00 | Well screen exposed to SM (3.5 ft), SC (5.6 ft), and CH (0.9 ft), in increasing depth.                     |
| OW-2150 L    | 152                 | 82.45                     | 140 - 150                | <i>Probe moved during test</i>      |          | 8.67E+00                           | 1.64E+01 | Well screen exposed to CH (8.5 ft) and SP-SM (1.5 ft), in increasing depth.                                |
| OW-2169 U    | 67                  | 81.77                     | 55 - 65                  | 1.45E+01                            | 3.02E+01 | 2.84E+01                           | 3.09E+01 | Well screen exposed to SM (3.5 ft), SP (5 ft), and SC (1.5 ft), in increasing depth.                       |
| OW-2169 L    | 102                 | 81.72                     | 90 - 100                 | 1.07E+00                            | 1.33E+00 | 3.62E+01                           | 3.65E+01 | Well screen exposed to SC (10 ft).                                                                         |
| OW-2181 U    | 52                  | 81.31                     | 40 - 50                  | 4.08E+00                            | 1.35E+01 | 8.95E+00                           | 1.28E+01 | Well screen exposed to SC (10 ft).                                                                         |
| OW-2181 L    | 102                 | 81.32                     | 90 - 100                 | 5.79E-3 (Late Time)                 | 3.44E-02 | 1.30E-02                           | 3.44E-02 | Well screen exposed to CH (4.8 ft), SC (5 ft), and SP-SC (0.2 ft), in increasing depth.                    |
| OW-2185 U    | 77                  | 81.45                     | 65 - 75                  | 9.92E+00                            | 1.52E+01 | 1.08E+01                           | 1.39E+01 | Well screen exposed to CH (3 ft), SP-SC (5 ft), and CH (2 ft) in increasing depth.                         |
| OW-2185 L    | 102                 | 81.36                     | 90 - 100                 | 6.17E+00                            | 8.10E+00 | 1.94E+01                           | 2.73E+01 | Well screen exposed to SW (4.6 ft) and SP (5.4 ft), in increasing depth.                                   |
| OW-2253 U    | 67                  | 82.66                     | 55 - 65                  | 1.08E+01                            | 1.16E+01 | 1.25E+01                           | 1.54E+01 | Well screen exposed to SC (3.5 ft), SP (5 ft) and CH (1.5 ft) in increasing depth.                         |
| OW-2253 L    | 147.00              | 82.82                     | 135 - 145                | 1.01E+02                            | 1.05E+02 | 7.73E+01                           | 8.79E+01 | Well screen exposed to SC (3.5 ft), and SP-SM (6.5 ft) in increasing depth.                                |
| OW-2253 LB   | 147.00              | 82.82                     | 135 - 145                | 9.98E+01                            | 1.15E+02 | NT                                 | NT       | Well screen exposed to SC (3.5 ft), and SP-SM (6.5 ft) in increasing depth, no rising head test conducted. |
| OW-2253 L2   | 147.00              | 82.82                     | 135 - 145                | 1.38E+02                            | 1.48E+02 | NT                                 | NT       | Well screen exposed to SC (3.5 ft), and SP-SM (6.5 ft) in increasing depth, no rising head test conducted. |
| OW-2269 U    | 92                  | 82.43                     | 80 - 90                  | 7.93E-01                            | 1.13E+00 | 2.49E+00                           | 3.41E+00 | Well screen exposed to CL (0.4 ft) and SC (9.6 ft), in increasing depth.                                   |
| OW-2269 UB   | 92                  | 82.43                     | 80 - 90                  | 1.57E+00                            | 2.25E+00 | NT                                 | NT       | Well screen exposed to CL (0.4 ft) and SC (9.6 ft), in increasing depth, no rising head test conducted.    |
| OW-2269 L    | 143                 | 82.55                     | 130 - 140                | 6.34E-01                            | 1.26E+00 | 1.17E+00                           | 1.50E+00 | Well screen exposed to CH (0.4 ft), and SC-SM (9.6 ft) in increasing depth.                                |
| OW-2284 U    | 77                  | 82.62                     | 65 - 75                  | 8.53E-01                            | 9.62E-01 | 1.37E+00                           | 1.82E+00 | Well screen exposed to SP-SC (3.5 ft), and CH (6.5 ft) in increasing depth.                                |
| OW-2284 UB   | 77                  | 82.62                     | 65 - 75                  | 5.79E-01                            | 3.04E+00 | NT                                 | NT       | Well screen exposed to SP-SC (3.5 ft), and CH (6.5 ft) in increasing depth, no rising head test conducted. |
| OW-2284 L    | 112                 | 82.74                     | 100 - 110                | 2.62E+01                            | 3.89E+01 | 2.39E+01                           | 3.58E+01 | Well screen exposed to SP (10 ft).                                                                         |

NT = not tested

No data = no data received as of 3/14/2008

ft bgs = feet below ground surface

Prepared by: LSBDate: 11-5-09Checked by: LSADate: 11-5-09

**FINAL DATA REPORT Rev 0  
GEOTECHNICAL EXPLORATION AND TESTING**

**EXELON TEXAS COL PROJECT  
VICTORIA COUNTY, TEXAS  
POWER BLOCK**

**July 10, 2008**

**VOLUME 1  
Figures**

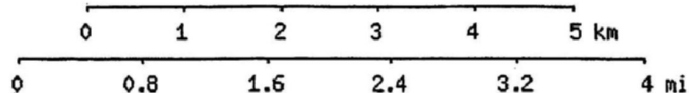
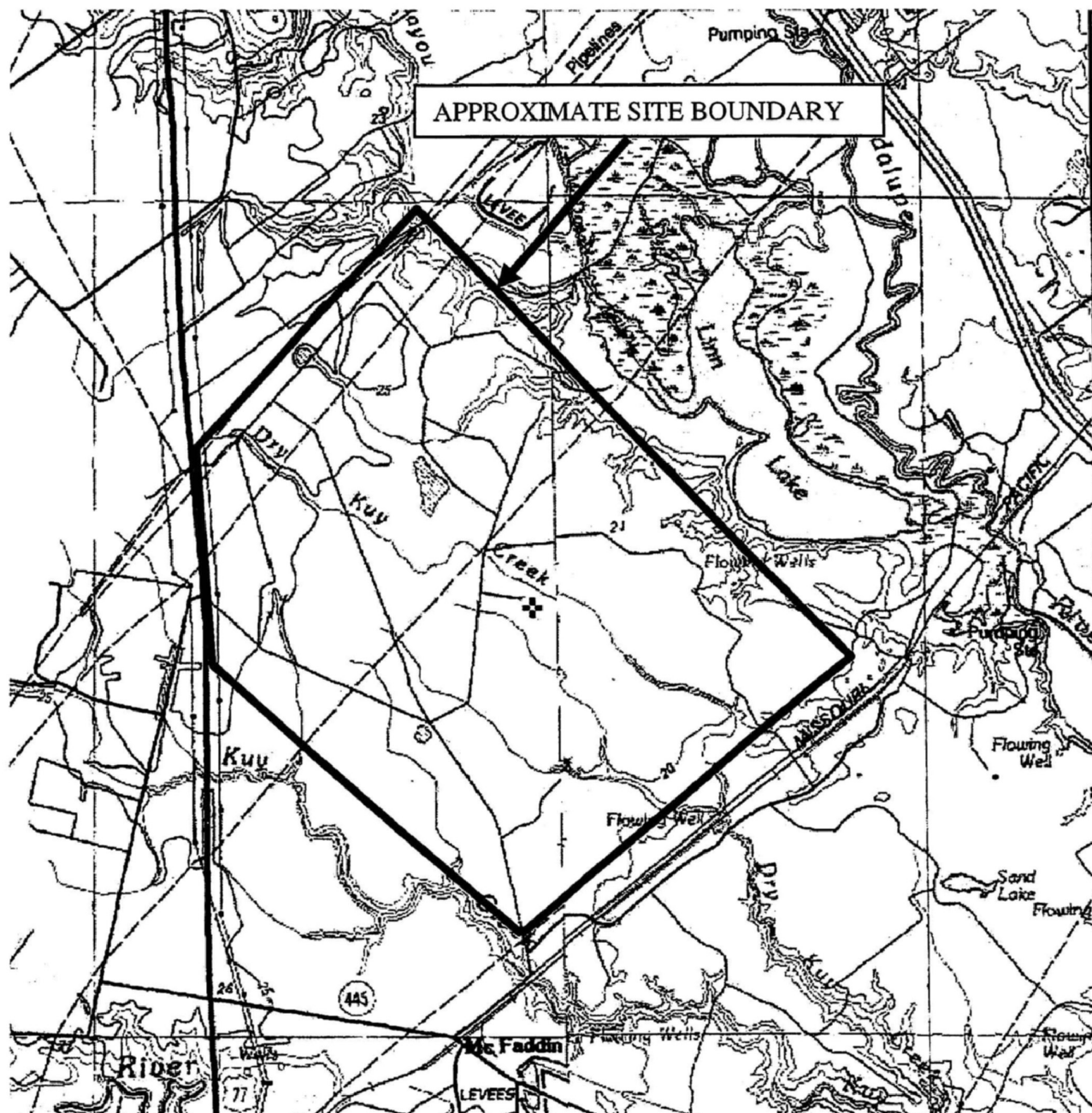
**Prepared By:**

**MACTEC Engineering and Consulting, Inc.  
Raleigh, North Carolina**

**MACTEC Project No. 6468-07-1777**

**Prepared For:**

**Bechtel Power Corporation  
Subcontract No. 25352-102-HC4-CY00-00001**



UTM 14 695259E 3165327N (NAD83/WGS84)  
**USGS McFaddin (TX) Quadrangle**  
 Projection is UTM Zone 14 NAD83 Datum

NORTH

NOTE: SITE LOCATION IS APPROXIMATE

**MACTEC**

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**SITE VICINITY MAP  
 EXELON COL PROJECT  
 VICTORIA, TEXAS**

|                       |                   |        |
|-----------------------|-------------------|--------|
| DRAWN: WSG            | DATE: APRIL 2008  | FIGURE |
| ENG CHECK: CBS        | SCALE: AS SHOWN   | 1      |
| APPROVAL: KAW 4-30-08 | JOB: 6468-07-1777 |        |

**FINAL DATA REPORT Rev 0  
GEOTECHNICAL EXPLORATION AND TESTING**

**EXELON TEXAS COL PROJECT  
VICTORIA COUNTY, TEXAS  
POWER BLOCK**

**July 10, 2008**

**VOLUME 1  
Appendix A – Survey Report**

**Prepared By:**

**MACTEC Engineering and Consulting, Inc.  
Raleigh, North Carolina**

**MACTEC Project No. 6468-07-1777**

**Prepared For:**

**Bechtel Power Corporation  
Subcontract No. 25352-102-HC4-CY00-00001**



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**Final Survey Report**  
**As-built Survey for All Geotechnical Investigatory Sites**  
**McCan Ranch Site, Victoria, Texas**

**Introduction**

SURVCON INC. (Houston, Texas) in accordance with instructions directed by MACTEC Engineering and Consulting Inc. performed an As-built Survey to locate geotechnical borings previously staked at the McCan Ranch Site in Victoria County, Texas. These borings were assigned grid coordinate values in a Boring Location Plan issued by the Bechtel Corporation (Frederick, Maryland), Job No. 25352, Drawing No. 000-CY-0010-00002 and 000-CY-0010-00003, issued October 31, 2007. The pre-determined grid coordinate values assigned to each boring were in the Texas Coordinate System South Central Zone 4204, North American Datum 1983. SURVCON INC. established horizontal and vertical control monuments within the subject site utilizing GPS static observation techniques. Geotechnical borings were then located in the field with GPS; however, not all boring locations were staked by SURVCON INC. The MACTEC geotechnical team staked and marked boring locations in the proposed cooling pond area of the McCan Ranch Site. After all boring locations were staked on the ground, the MACTEC boring team proceeded to bore all investigatory borings as referenced from the Boring location Plan. This survey report chronicles the geospatial locations of all as-built boreholes on the McCan Ranch Site.

As the as- built locations were located in the field, the raw GPS data was sent to the Houston office via FTP and processed. Error analyses were calculated for collected coordinate data sets and every borehole location were assigned averaged state plane coordinate values. These values were then compared to the borehole stakeout locations in comparison with the planned geospatial locations of the geotechnical borings defined by the Boring Location Plan. All professional surveying services were done in accordance with the guidelines and instructions outlined in a document titled, Work Instructions No. 208, Project No. 6468-07-1777, issued to both Adam Salazar III, and Luther Hensley by email from Kathryn A. White of MACTEC. Bill Deobald, Senior Geologist at MACTEC made additional checks for inclusion of all geotechnical investigation sites.

**Datum and Accuracy Standards**

|                  |                                             |
|------------------|---------------------------------------------|
| Horizontal datum | North American Datum 1983 (NAD83)           |
| Vertical Datum   | North American Vertical Datum 1988 (NAVD88) |



All horizontal coordinates for the geotechnical borings are reported in Grid, NAD83. Vertical elevations are reported in NAVD88 and are orthometric heights. These heights are derived from the equation: ellipsoid height – (geoid height). Coordinates may be modified to surface values to calculate surface horizontal distances, by dividing by the average combined scale factor of 0.999941186. Horizontal accuracy to locate the borings exceeded the required third order accuracy (1:5000). Vertical accuracy for all boring locations met or exceeded the required accuracy of 0.10 feet.

#### **Establishment of Horizontal and Vertical Control**

Two control points were established on the McCann Ranch Site, Victoria, County, Texas by GPS static observation techniques. Two L1/L2 GPS receivers were plumbed over the five-foot long 5/8" iron rods set in the ground at the Victoria County Site. Continuous static observations of more than 3 hours were then performed. The data set accumulated through the duration of the static observation time was sent via internet to the National Geodetic Survey (NGS) Online Position User Service (OPUS) to establish horizontal and vertical control on one of the control points although a solution for both control points were derived. Once it was established that the error constraints for the control points were within tolerance, one control point was held fixed and assigned primary control point status. A baseline solution with the 3 hours of observed static data was processed using Leica Geomatics Office to determine the horizontal and vertical coordinates for the secondary control point using a least squares technique. This solution was then compared to the OPUS solution as a check. The Primary and Secondary Control Points' horizontal and vertical coordinates are as follows:

| <b>Description</b>             | <b>Grid Northing<br/>NAD83 TXSC<br/>US Ft.</b> | <b>Grid Easting<br/>NAD83 TXSC<br/>US Ft.</b> | <b>Orthometric<br/>Elevation<br/>NAVD88 US Ft.</b> |
|--------------------------------|------------------------------------------------|-----------------------------------------------|----------------------------------------------------|
| Primary Control Pt.<br>No. 1   | 13,414,408.22                                  | 2,606,561.05                                  | 76.75                                              |
| Secondary Control<br>Pt. No. 2 | 13,414,975.99                                  | 2,605,255.34                                  | 76.37                                              |

#### **Methodology**

Accuracy standards were achieved by collecting spatial data using Real Time Kinematic-Global Positioning Satellite (RTK-GPS) techniques. The Leica GPS System 1200 was used to collect all field data and observations, and Leica Geomatics Office Version 2.0 was used to process all GPS data. As stated, all data collected for the spatial locations of geotechnical borings were done in a manner to achieve accuracy in the horizontal component to met or exceeded a third order accuracy of 1:5,000 and all data collected for the spatial locations of geotechnical borings in the vertical component met or exceeded an accuracy of 0.10 feet (except for those noted in the following spread sheets).

Three observations were made on each geotechnical spatial location using RTK-GPS. The RTK-GPS observations were made at different time periods and different days to

ensure independent satellite geometry for each respective boring. The independent observations were then processed through Leica Geomatics Office and a least squares adjustment and error analysis were performed in order to check the accuracy of the collected geospatial locations of the geotechnical borings. The processed coordinate values for the as-built geotechnical borings and their standard deviations from the mean coordinate values are as follows:

| BOREHOLE        | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>ORTHOMETRIC<br>ELEVATION<br>NAVD88 US FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV. |
|-----------------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|------------|------------|----------------|
| B-01            | 13404257.08                                                     | 2606680.96                                                     | 71.46                                                | 0.01       | 0.01       | 0.05           |
| B-02            | 13411511.00                                                     | 2607865.77                                                     | 74.68                                                | 0.02       | 0.03       | 0.06           |
| B-03            | 13414926.74                                                     | 2609291.47                                                     | 74.89                                                | 0.05       | 0.01       | 0.03           |
| B-04            | 13414277.17                                                     | 2607437.06                                                     | 78.97                                                | 0.01       | 0.02       | 0.08           |
| B-05            | 13414770.02                                                     | 2605821.89                                                     | 77.56                                                | 0.03       | 0.02       | 0.10           |
| B-06            | 13415884.18                                                     | 2604971.12                                                     | 78.98                                                | 0.03       | 0.01       | 0.10           |
| B-07            | 13418366.17                                                     | 2606567.82                                                     | 77.39                                                | 0.01       | 0.05       | 0.03           |
| B-08            | 13415809.85                                                     | 2598937.51                                                     | 81.71                                                | 0.04       | 0.01       | 0.05           |
| B-09            | 13414943.90                                                     | 2604897.77                                                     | 77.36                                                | 0.02       | 0.01       | 0.05           |
| B-10            | 13418474.15                                                     | 2604736.80                                                     | 77.69                                                | 0.01       | 0.03       | 0.05           |
| B-11            | 13411479.49                                                     | 2607866.27                                                     | 74.47                                                | 0.00       | 0.00       | 0.01           |
| B-12            | 13418446.37                                                     | 2606546.46                                                     | 76.70                                                | 0.01       | 0.01       | 0.01           |
| B-2150          | 13412560.45                                                     | 2599590.93                                                     | 80.44                                                | 0.13       | 0.11       | 0.01           |
| B-2151          | 13412636.54                                                     | 2599654.12                                                     | 80.41                                                | 0.05       | 0.03       | 0.08           |
| B-2152          | 13412705.76                                                     | 2599720.24                                                     | 80.26                                                | 0.08       | 0.09       | 0.05           |
| B-2153          | 13412821.99                                                     | 2599842.54                                                     | 80.23                                                | 0.10       | 0.06       | 0.06           |
| B-2154          | 13412450.91                                                     | 2599619.83                                                     | 80.54                                                | 0.04       | 0.03       | 0.07           |
| B-2155          | 13412471.13                                                     | 2599698.69                                                     | 80.36                                                | 0.10       | 0.16       | 0.01           |
| B-2156          | 13412548.01                                                     | 2599760.77                                                     | 80.25                                                | 0.11       | 0.06       | 0.09           |
| B-2157          | 13412623.72                                                     | 2599823.05                                                     | 80.07                                                | 0.00       | 0.02       | 0.08           |
| B-2158          | 13412749.59                                                     | 2599928.77                                                     | 80.45                                                | 0.11       | 0.05       | 0.01           |
| B-2159          | 13412476.54                                                     | 2599788.95                                                     | 80.40                                                | 0.13       | 0.06       | 0.07           |
| B-2160          | 13412180.67                                                     | 2599627.24                                                     | 80.43                                                | 0.12       | 0.06       | 0.07           |
| B-2161          | 13412263.41                                                     | 2599698.18                                                     | 80.49                                                | 0.04       | 0.11       | 0.13           |
| B-2162 A        | 13412385.92                                                     | 2599799.34                                                     | 80.16                                                | 0.08       | 0.04       | 0.09           |
| B-2162 A Offset | 13412378.65                                                     | 2599792.16                                                     | 80.05                                                | 0.04       | 0.04       | 0.07           |
| B-2163          | 13412463.50                                                     | 2599862.07                                                     | 79.85                                                | 0.11       | 0.07       | 0.09           |
| B-2164          | 13412537.94                                                     | 2599925.58                                                     | 80.38                                                | 0.05       | 0.10       | 0.11           |
| B-2165          | 13412661.24                                                     | 2600035.28                                                     | 80.13                                                | 0.11       | 0.05       | 0.01           |
| B-2166          | 13412109.03                                                     | 2599713.14                                                     | 80.50                                                | 0.06       | 0.15       | 0.02           |
| B-2167          | 13412192.20                                                     | 2599781.27                                                     | 80.19                                                | 0.09       | 0.08       | 0.05           |
| B-2168          | 13412294.30                                                     | 2599891.10                                                     | 80.12                                                | 0.04       | 0.06       | 0.04           |
| B-2169          | 13412350.21                                                     | 2599938.43                                                     | 79.47                                                | 0.06       | 0.03       | 0.03           |

| BOREHOLE        | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>ORTHOMETRIC<br>ELEVATION<br>NAVD88 US FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV. |
|-----------------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|------------|------------|----------------|
| B-2170          | 13412413.86                                                     | 2599989.72                                                     | 79.68                                                | 0.11       | 0.03       | 0.10           |
| B-2170 R        | 13412396.19                                                     | 2599989.32                                                     | 79.18                                                | 0.12       | 0.06       | 0.04           |
| B-2171          | 13412488.43                                                     | 2600092.96                                                     | 80.03                                                | 0.08       | 0.06       | 0.01           |
| B-2171 R        | 13412479.95                                                     | 2600074.23                                                     | 79.97                                                | 0.10       | 0.10       | 0.01           |
| B-2172          | 13412096.23                                                     | 2599829.90                                                     | 80.10                                                | 0.13       | 0.09       | 0.03           |
| B-2173          | 13412224.54                                                     | 2599944.52                                                     | 79.59                                                | 0.05       | 0.04       | 0.01           |
| B-2174 A        | 13412299.46                                                     | 2600000.64                                                     | 80.11                                                | 0.07       | 0.07       | 0.06           |
| B-2174 A Offset | 13412316.51                                                     | 2599991.79                                                     | 79.28                                                | 0.02       | 0.05       | 0.03           |
| B-2174 UD       | 13412276.56                                                     | 2600005.51                                                     | 79.58                                                | 0.07       | 0.03       | 0.03           |
| B-2174 UDR      | 13412303.29                                                     | 2600012.41                                                     | 78.98                                                | 0.01       | 0.00       | 0.02           |
| B-2175          | 13412370.49                                                     | 2600062.81                                                     | 80.12                                                | 0.17       | 0.07       | 0.05           |
| B-2176 A        | 13412511.69                                                     | 2600175.17                                                     | 79.81                                                | 0.07       | 0.12       | 0.02           |
| B-2176 A Offset | 13412522.55                                                     | 2600178.10                                                     | 79.99                                                | 0.04       | 0.08       | 0.02           |
| B-2177          | 13412196.92                                                     | 2600000.49                                                     | 79.61                                                | 0.10       | 0.05       | 0.03           |
| B-2178          | 13412315.43                                                     | 2600107.27                                                     | 79.53                                                | 0.06       | 0.10       | 0.00           |
| B-2179          | 13412424.96                                                     | 2600168.71                                                     | 79.78                                                | 0.05       | 0.05       | 0.03           |
| B-2180          | 13412247.39                                                     | 2600062.56                                                     | 78.85                                                | 0.06       | 0.10       | 0.03           |
| B-2181          | 13412143.28                                                     | 2600062.56                                                     | 79.24                                                | 0.10       | 0.10       | 0.05           |
| B-2182 A        | 13412219.77                                                     | 2600133.20                                                     | 79.69                                                | 0.02       | 0.01       | 0.01           |
| B-2182 A Offset | 13412209.92                                                     | 2600137.01                                                     | 79.70                                                | 0.05       | 0.04       | 0.06           |
| B-2182 UD       | 13412207.39                                                     | 2600143.80                                                     | 79.47                                                | 0.07       | 0.08       | 0.09           |
| B-2183          | 13412265.91                                                     | 2600166.16                                                     | 79.63                                                | 0.07       | 0.03       | 0.02           |
| B-2184          | 13412295.45                                                     | 2600305.41                                                     | 79.71                                                | 0.04       | 0.05       | 0.05           |
| B-2185          | 13412320.56                                                     | 2600808.84                                                     | 79.48                                                | 0.02       | 0.02       | 0.02           |
| B-2250          | 13413327.46                                                     | 2600233.62                                                     | 81.05                                                | 0.07       | 0.07       | 0.01           |
| B-2251          | 13413404.52                                                     | 2600297.97                                                     | 80.79                                                | 0.07       | 0.06       | 0.05           |
| B-2252          | 13413478.24                                                     | 2600360.51                                                     | 80.74                                                | 0.07       | 0.03       | 0.07           |
| B-2253          | 13413587.94                                                     | 2600484.98                                                     | 80.86                                                | 0.08       | 0.06       | 0.02           |
| B-2254          | 13413216.45                                                     | 2600262.92                                                     | 80.54                                                | 0.07       | 0.08       | 0.03           |
| B-2255          | 13413238.32                                                     | 2600340.81                                                     | 80.67                                                | 0.06       | 0.09       | 0.04           |
| B-2256          | 13413314.37                                                     | 2600403.14                                                     | 80.26                                                | 0.07       | 0.05       | 0.08           |
| B-2257          | 13413389.48                                                     | 2600466.52                                                     | 80.78                                                | 0.08       | 0.08       | 0.03           |
| B-2258          | 13413515.61                                                     | 2600571.48                                                     | 80.75                                                | 0.10       | 0.05       | 0.04           |
| B-2259          | 13413243.36                                                     | 2600432.64                                                     | 80.35                                                | 0.03       | 0.07       | 0.02           |
| B-2260          | 13412945.84                                                     | 2600269.60                                                     | 80.71                                                | 0.02       | 0.05       | 0.03           |
| B-2261          | 13413029.99                                                     | 2600340.99                                                     | 80.50                                                | 0.08       | 0.07       | 0.09           |
| B-2262 A        | 13413146.75                                                     | 2600442.41                                                     | 80.42                                                | 0.06       | 0.03       | 0.08           |
| B-2262 A Offset | 13413146.80                                                     | 2600433.53                                                     | 80.57                                                | 0.01       | 0.02       | 0.04           |
| B-2263          | 13413227.48                                                     | 2600506.73                                                     | 80.43                                                | 0.08       | 0.07       | 0.06           |
| B-2264          | 13413303.45                                                     | 2600569.40                                                     | 80.51                                                | 0.06       | 0.06       | 0.03           |

| BOREHOLE        | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>ORTHOMETRIC<br>ELEVATION<br>NAVD88 US FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV. |
|-----------------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|------------|------------|----------------|
| B-2265          | 13413424.28                                                     | 2600677.27                                                     | 80.60                                                | 0.09       | 0.07       | 0.13           |
| B-2266          | 13412873.85                                                     | 2600353.67                                                     | 80.67                                                | 0.09       | 0.06       | 0.03           |
| B-2267          | 13412957.87                                                     | 2600424.20                                                     | 80.74                                                | 0.10       | 0.03       | 0.10           |
| B-2268          | 13413056.37                                                     | 2600528.54                                                     | 80.58                                                | 0.04       | 0.05       | 0.10           |
| B-2269          | 13413117.17                                                     | 2600582.50                                                     | 80.45                                                | 0.07       | 0.03       | 0.06           |
| B-2269 UD       | 13413092.19                                                     | 2600593.55                                                     | 80.06                                                | 0.04       | 0.02       | 0.03           |
| B-2270          | 13413179.24                                                     | 2600633.41                                                     | 80.62                                                | 0.08       | 0.06       | 0.05           |
| B-2271          | 13413253.44                                                     | 2600735.25                                                     | 80.46                                                | 0.07       | 0.04       | 0.05           |
| B-2272          | 13412863.17                                                     | 2600472.73                                                     | 80.22                                                | 0.03       | 0.08       | 0.01           |
| B-2273          | 13412991.36                                                     | 2600585.49                                                     | 80.69                                                | 0.04       | 0.07       | 0.05           |
| B-2274 A        | 13413066.32                                                     | 2600642.98                                                     | 80.86                                                | 0.01       | 0.06       | 0.04           |
| B-2274 A Offset | 13413070.52                                                     | 2600633.47                                                     | 80.34                                                | 0.02       | 0.02       | 0.04           |
| B-2274 UD       | 13413047.70                                                     | 2600652.45                                                     | 80.41                                                | 0.06       | 0.05       | 0.03           |
| B-2275          | 13413133.62                                                     | 2600702.31                                                     | 80.49                                                | 0.08       | 0.06       | 0.04           |
| B-2276 A        | 13413276.30                                                     | 2600822.55                                                     | 80.53                                                | 0.07       | 0.10       | 0.05           |
| B-2276 A Offset | 13413289.36                                                     | 2600817.99                                                     | 80.63                                                | 0.02       | 0.02       | 0.04           |
| B-2277          | 13412961.61                                                     | 2600644.66                                                     | 80.60                                                | 0.04       | 0.05       | 0.03           |
| B-2278          | 13413084.23                                                     | 2600745.84                                                     | 80.69                                                | 0.10       | 0.09       | 0.04           |
| B-2279          | 13413192.06                                                     | 2600811.88                                                     | 80.28                                                | 0.07       | 0.08       | 0.01           |
| B-2280          | 13413014.25                                                     | 2600704.09                                                     | 80.57                                                | 0.05       | 0.07       | 0.04           |
| B-2281          | 13412908.71                                                     | 2600705.43                                                     | 80.42                                                | 0.09       | 0.01       | 0.09           |
| B-2282 A        | 13412970.74                                                     | 2600757.69                                                     | 80.31                                                | 0.05       | 0.00       | 0.01           |
| B-2282 A Offset | 13412962.40                                                     | 2600766.39                                                     | 80.46                                                | 0.02       | 0.04       | 0.05           |
| B-2283          | 13413031.52                                                     | 2600808.58                                                     | 80.40                                                | 0.08       | 0.06       | 0.05           |
| B-2284          | 13413060.61                                                     | 2600948.44                                                     | 80.42                                                | 0.13       | 0.07       | 0.06           |
| B-2285          | 13412682.80                                                     | 2600322.38                                                     | 80.35                                                | 0.08       | 0.05       | 0.04           |
| B-2301 A        | 13414429.68                                                     | 2596278.37                                                     | 81.23                                                | 0.01       | 0.03       | 0.05           |
| B-2301          | 13414414.60                                                     | 2596251.62                                                     | 80.79                                                | 0.08       | 0.07       | 0.07           |
| B-2302 A        | 13407371.01                                                     | 2598389.30                                                     | 80.32                                                | 0.00       | 0.00       | 0.02           |
| B-2302          | 13407401.61                                                     | 2598386.93                                                     | 80.00                                                | 0.04       | 0.04       | 0.07           |
| B-2302 UD       | 13407373.35                                                     | 2598406.10                                                     | 80.00                                                | 0.06       | 0.04       | 0.03           |
| B-2303 A        | 13402308.03                                                     | 2600478.63                                                     | 75.36                                                | 0.07       | 0.02       | 0.01           |
| B-2303          | 13402314.55                                                     | 2600497.11                                                     | 75.56                                                | 0.11       | 0.06       | 0.03           |
| B-2304 A        | 13396556.48                                                     | 2608686.75                                                     | 68.33                                                | 0.01       | 0.03       | 0.05           |
| B-2304          | 13396541.80                                                     | 2608710.01                                                     | 68.12                                                | 0.03       | 0.01       | 0.04           |
| B-2304 UD       | 13396571.12                                                     | 2608693.06                                                     | 68.46                                                | 0.04       | 0.01       | 0.06           |
| B-2305 A        | 13406652.71                                                     | 2621646.04                                                     | 65.45                                                | 0.03       | 0.03       | 0.08           |
| B-2305          | 13406649.21                                                     | 2621680.51                                                     | 65.58                                                | 0.02       | 0.05       | 0.03           |
| B-2306 A        | 13411450.19                                                     | 2615249.64                                                     | 64.28                                                | 0.03       | 0.02       | 0.01           |
| B-2306          | 13411472.15                                                     | 2615253.02                                                     | 64.68                                                | 0.01       | 0.01       | 0.00           |

| <b>BOREHOLE</b> | <b>AVERAGE<br/>AS-BUILT<br/>GRID<br/>NORTHING<br/>NAD83 TXSC<br/>US FT.</b> | <b>AVERAGE<br/>AS-BUILT<br/>GRID<br/>EASTING<br/>NAD83 TXSC<br/>US FT.</b> | <b>AVERAGE<br/>ORTHOMETRIC<br/>ELEVATION<br/>NAVD88 US FT.</b> | <b><math>\sigma</math> N</b> | <b><math>\sigma</math> E</b> | <b><math>\sigma</math> ELEV.</b> |
|-----------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------|------------------------------|----------------------------------|
| B-2307 A        | 13420888.12                                                                 | 2603157.79                                                                 | 76.75                                                          | 0.03                         | 0.03                         | 0.07                             |
| B-2307          | 13420917.89                                                                 | 2603184.91                                                                 | 76.38                                                          | 0.06                         | 0.02                         | 0.09                             |
| B-2308          | 13404197.77                                                                 | 2599333.56                                                                 | 76.39                                                          | 0.06                         | 0.01                         | 0.05                             |
| B-2309 P        | 13405492.18                                                                 | 2600431.73                                                                 | 76.19                                                          | 0.07                         | 0.02                         | 0.08                             |
| B-2309 P-L      | 13405491.59                                                                 | 2600445.06                                                                 | 76.13                                                          | 0.07                         | 0.07                         | 0.04                             |
| B-2309 P-U      | 13405492.30                                                                 | 2600435.20                                                                 | 76.25                                                          | 0.10                         | 0.07                         | 0.06                             |
| B-2310          | 13406601.70                                                                 | 2601353.57                                                                 | 75.95                                                          | 0.03                         | 0.04                         | 0.03                             |
| B-2311 P        | 13407700.78                                                                 | 2602286.18                                                                 | 75.78                                                          | 0.01                         | 0.01                         | 0.01                             |
| B-2311 P-L      | 13407702.98                                                                 | 2602296.89                                                                 | 75.33                                                          | 0.07                         | 0.04                         | 0.07                             |
| B-2311 P-U      | 13407705.71                                                                 | 2602287.63                                                                 | 75.71                                                          | 0.06                         | 0.04                         | 0.04                             |
| B-2312 P        | 13410697.79                                                                 | 2604163.84                                                                 | 75.71                                                          | 0.01                         | 0.03                         | 0.02                             |
| B-2312 P-L      | 13410694.32                                                                 | 2604153.23                                                                 | 75.50                                                          | 0.02                         | 0.01                         | 0.05                             |
| B-2312 P-U      | 13410699.82                                                                 | 2604161.16                                                                 | 75.46                                                          | 0.08                         | 0.03                         | 0.03                             |
| B-2313 P        | 13412119.71                                                                 | 2605602.60                                                                 | 77.96                                                          | 0.03                         | 0.01                         | 0.01                             |
| B-2313 P-L      | 13412115.55                                                                 | 2605606.11                                                                 | 77.97                                                          | 0.01                         | 0.02                         | 0.03                             |
| B-2313 P-U      | 13412117.40                                                                 | 2605610.94                                                                 | 77.86                                                          | 0.03                         | 0.02                         | 0.04                             |
| B-2314 P        | 13413943.94                                                                 | 2607786.59                                                                 | 76.01                                                          | 0.02                         | 0.02                         | 0.04                             |
| B-2314 P-L      | 13413940.68                                                                 | 2607782.57                                                                 | 75.42                                                          | 0.01                         | 0.00                         | 0.01                             |
| B-2314 P-U      | 13413937.97                                                                 | 2607776.49                                                                 | 75.48                                                          | 0.02                         | 0.01                         | 0.03                             |
| B-2315          | 13416228.72                                                                 | 2609409.27                                                                 | 47.06                                                          | 0.04                         | 0.01                         | 0.01                             |
| B-2316          | 13413189.22                                                                 | 2608491.76                                                                 | 75.17                                                          | 0.04                         | 0.01                         | 0.03                             |
| B-2317          | 13410598.40                                                                 | 2600511.90                                                                 | 76.73                                                          | 0.00                         | 0.02                         | 0.02                             |
| B-2318          | 13401612.98                                                                 | 2601154.61                                                                 | 75.31                                                          | 0.03                         | 0.03                         | 0.06                             |
| B-2319          | 13403601.01                                                                 | 2603048.72                                                                 | 74.16                                                          | 0.02                         | 0.01                         | 0.02                             |
| B-2319 UD       | 13403595.98                                                                 | 2603062.86                                                                 | 74.16                                                          | 0.12                         | 0.05                         | 0.10                             |
| B-2320          | 13407573.79                                                                 | 2606839.75                                                                 | 71.46                                                          | 0.04                         | 0.02                         | 0.09                             |
| B-2321          | 13410953.82                                                                 | 2610037.97                                                                 | 71.62                                                          | 0.01                         | 0.01                         | 0.01                             |
| B-2321 UD       | 13410937.49                                                                 | 2610017.10                                                                 | 71.81                                                          | 0.01                         | 0.01                         | 0.02                             |
| B-2322          | 13413528.90                                                                 | 2612528.69                                                                 | 68.53                                                          | 0.07                         | 0.02                         | 0.04                             |
| B-2324          | 13416308.77                                                                 | 2612208.94                                                                 | 24.47                                                          | 0.02                         | 0.02                         | 0.04                             |
| B-2325 P        | 13401292.55                                                                 | 2603700.67                                                                 | 73.83                                                          | 0.02                         | 0.03                         | 0.03                             |
| B-2325 P-L      | 13401292.30                                                                 | 2603696.51                                                                 | 73.85                                                          | 0.02                         | 0.03                         | 0.08                             |
| B-2325 P-U      | 13401288.29                                                                 | 2603699.18                                                                 | 73.79                                                          | 0.05                         | 0.03                         | 0.04                             |
| B-2326 P        | 13403071.71                                                                 | 2605620.06                                                                 | 70.92                                                          | 0.02                         | 0.02                         | 0.03                             |
| B-2326 P-L      | 13403074.73                                                                 | 2605620.44                                                                 | 70.76                                                          | 0.07                         | 0.08                         | 0.06                             |
| B-2326 P-U      | 13403069.23                                                                 | 2605616.46                                                                 | 70.97                                                          | 0.07                         | 0.05                         | 0.12                             |
| B-2327 P        | 13404716.72                                                                 | 2607391.55                                                                 | 71.31                                                          | 0.04                         | 0.04                         | 0.05                             |
| B-2327 P-L      | 13404712.18                                                                 | 2607384.02                                                                 | 70.81                                                          | 0.02                         | 0.01                         | 0.10                             |
| B-2327 P-U      | 13404711.41                                                                 | 2607393.78                                                                 | 71.24                                                          | 0.23                         | 0.05                         | 0.07                             |
| B-2328 P        | 13406227.52                                                                 | 2609018.21                                                                 | 68.55                                                          | 0.06                         | 0.02                         | 0.07                             |



| BOREHOLE   | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>ORTHOMETRIC<br>ELEVATION<br>NAVD88 US FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV. |
|------------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|------------|------------|----------------|
| B-2328 P-L | 13406222.90                                                     | 2609021.23                                                     | 68.42                                                | 0.02       | 0.02       | 0.04           |
| B-2328 P-U | 13406233.26                                                     | 2609021.31                                                     | 68.13                                                | 0.02       | 0.02       | 0.02           |
| B-2329 P   | 13407870.29                                                     | 2610791.91                                                     | 67.98                                                | 0.02       | 0.03       | 0.04           |
| B-2329 P-L | 13407871.37                                                     | 2610784.65                                                     | 68.06                                                | 0.03       | 0.03       | 0.05           |
| B-2329 P-U | 13407877.98                                                     | 2610791.88                                                     | 68.07                                                | 0.04       | 0.02       | 0.05           |
| B-2330 P   | 13410093.19                                                     | 2613189.45                                                     | 68.19                                                | 0.05       | 0.04       | 0.09           |
| B-2330 P-L | 13410088.73                                                     | 2613185.03                                                     | 68.18                                                | 0.00       | 0.02       | 0.09           |
| B-2330 P-U | 13410096.27                                                     | 2613183.99                                                     | 67.89                                                | 0.01       | 0.04       | 0.09           |
| B-2331     | 13409862.54                                                     | 2612278.74                                                     | 69.37                                                | 0.03       | 0.04       | 0.04           |
| B-2332     | 13414435.21                                                     | 2603735.80                                                     | 78.68                                                | 0.07       | 0.02       | 0.03           |
| B-2333     | 13398864.77                                                     | 2603981.87                                                     | 76.07                                                | 0.01       | 0.00       | 0.04           |
| B-2334     | 13400634.86                                                     | 2606130.71                                                     | 71.85                                                | 0.03       | 0.02       | 0.04           |
| B-2335     | 13404183.94                                                     | 2610412.10                                                     | 66.75                                                | 0.06       | 0.02       | 0.04           |
| B-2336     | 13409474.40                                                     | 2616874.85                                                     | 68.00                                                | 0.01       | 0.01       | 0.02           |
| B-2337     | 13407263.05                                                     | 2614846.26                                                     | 67.23                                                | 0.07       | 0.06       | 0.05           |
| B-2338     | 13398220.80                                                     | 2606385.80                                                     | 68.15                                                | 0.04       | 0.03       | 0.04           |
| B-2339 P   | 13399913.99                                                     | 2608670.98                                                     | 68.89                                                | 0.07       | 0.03       | 0.01           |
| B-2339 P-L | 13399911.22                                                     | 2608674.69                                                     | 68.63                                                | 0.05       | 0.03       | 0.03           |
| B-2339 P-U | 13399916.45                                                     | 2608670.14                                                     | 68.75                                                | 0.04       | 0.01       | 0.04           |
| B-2340     | 13400762.63                                                     | 2609812.65                                                     | 68.09                                                | 0.04       | 0.02       | 0.02           |
| B-2341 P   | 13401608.46                                                     | 2610954.27                                                     | 65.22                                                | 0.07       | 0.03       | 0.04           |
| B-2341 P-L | 13401617.83                                                     | 2610954.24                                                     | 65.53                                                | 0.01       | 0.01       | 0.01           |
| B-2341 P-U | 13401610.51                                                     | 2610947.05                                                     | 64.98                                                | 0.01       | 0.02       | 0.01           |
| B-2342 P   | 13402771.26                                                     | 2612522.81                                                     | 67.22                                                | 0.00       | 0.03       | 0.06           |
| B-2342 P-L | 13402761.03                                                     | 2612526.25                                                     | 67.34                                                | 0.02       | 0.05       | 0.06           |
| B-2342 P-U | 13402788.89                                                     | 2612523.26                                                     | 67.61                                                | 0.02       | 0.04       | 0.06           |
| B-2343 P   | 13404151.56                                                     | 2614382.47                                                     | 64.51                                                | 0.02       | 0.01       | 0.08           |
| B-2343 P-L | 13404159.35                                                     | 2614395.88                                                     | 64.95                                                | 0.04       | 0.01       | 0.10           |
| B-2343 P-U | 13404159.36                                                     | 2614386.73                                                     | 64.62                                                | 0.04       | 0.04       | 0.08           |
| B-2344     | 13404997.85                                                     | 2615527.11                                                     | 65.78                                                | 0.01       | 0.00       | 0.02           |
| B-2345 P   | 13405844.69                                                     | 2616666.65                                                     | 67.81                                                | 0.01       | 0.02       | 0.03           |
| B-2345 P-L | 13405831.44                                                     | 2616657.32                                                     | 67.79                                                | 0.06       | 0.02       | 0.04           |
| B-2345 P-U | 13405835.31                                                     | 2616662.51                                                     | 67.91                                                | 0.03       | 0.09       | 0.08           |
| B-2346     | 13407540.56                                                     | 2618951.51                                                     | 67.09                                                | 0.00       | 0.01       | 0.01           |
| B-2348     | 13409626.85                                                     | 2621653.06                                                     | 50.63                                                | 0.04       | 0.00       | 0.01           |
| B-2349     | 13417352.46                                                     | 2607239.49                                                     | 76.66                                                | 0.03       | 0.02       | 0.01           |
| B-2350     | 13395764.08                                                     | 2610122.62                                                     | 65.25                                                | 0.02       | 0.04       | 0.01           |
| B-2351     | 13398915.88                                                     | 2613285.96                                                     | 63.73                                                | 0.03       | 0.03       | 0.06           |
| B-2352     | 13402480.47                                                     | 2617531.27                                                     | 62.91                                                | 0.01       | 0.02       | 0.04           |
| B-2352 UD  | 13402493.35                                                     | 2617543.73                                                     | 62.84                                                | 0.01       | 0.05       | 0.07           |

| BOREHOLE  | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>ORTHOMETRIC<br>ELEVATION<br>NAVD88 US FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV. |
|-----------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|------------|------------|----------------|
| B-2353    | 13406185.70                                                     | 2620582.19                                                     | 65.60                                                | 0.01       | 0.03       | 0.00           |
| B-2354    | 13418119.59                                                     | 2607884.13                                                     | 76.83                                                | 0.03       | 0.02       | 0.04           |
| B-2355    | 13412008.12                                                     | 2611224.44                                                     | 71.04                                                | 0.01       | 0.01       | 0.00           |
| B-2356    | 13409147.49                                                     | 2614293.88                                                     | 67.71                                                | 0.01       | 0.02       | 0.01           |
| B-2357    | 13404654.33                                                     | 2620736.11                                                     | 65.67                                                | 0.06       | 0.01       | 0.03           |
| B-2358    | 13402101.51                                                     | 2611620.85                                                     | 66.47                                                | 0.01       | 0.02       | 0.01           |
| B-2359    | 13417294.57                                                     | 2605500.03                                                     | 77.57                                                | 0.01       | 0.03       | 0.02           |
| B-2359 UD | 13417325.03                                                     | 2605493.44                                                     | 77.35                                                | 0.08       | 0.01       | 0.06           |

| CPT NO.   | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>ORTHOMETRIC<br>ELEVATION<br>NAVD88 US<br>FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV. |
|-----------|-----------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|------------|------------|----------------|
| C-2101    | 13412774.10                                                     | 2599705.86                                                     | 80.12                                                   | 0.05       | 0.04       | 0.01           |
| C-2102 S  | 13412550.23                                                     | 2599702.26                                                     | 80.17                                                   | 0.06       | 0.09       | 0.05           |
| C-2103    | 13412715.32                                                     | 2599852.09                                                     | 77.68                                                   | 0.03       | 0.03       | 0.07           |
| C-2104 S  | 13412187.52                                                     | 2599704.22                                                     | 80.10                                                   | 0.08       | 0.03       | 0.01           |
| C-2105    | 13412269.09                                                     | 2599774.92                                                     | 80.19                                                   | 0.06       | 0.06       | 0.01           |
| C-2106    | 13412291.55                                                     | 2599955.62                                                     | 79.59                                                   | 0.00       | 0.00       | 0.01           |
| C-2106 S  | 13412296.36                                                     | 2599958.27                                                     | 79.51                                                   | 0.04       | 0.06       | 0.03           |
| C-2107    | 13412304.73                                                     | 2600042.26                                                     | 79.96                                                   | 0.00       | 0.03       | 0.02           |
| C-2108    | 13412425.89                                                     | 2600105.91                                                     | 79.78                                                   | 0.07       | 0.00       | 0.02           |
| C-2109 S  | 13412545.94                                                     | 2600138.83                                                     | 79.93                                                   | 0.06       | 0.05       | 0.03           |
| C-2110    | 13412478.15                                                     | 2600217.10                                                     | 80.00                                                   | 0.03       | 0.02       | 0.02           |
| C-2111    | 13412225.65                                                     | 2600089.78                                                     | 78.04                                                   | 0.01       | 0.01       | 0.02           |
| C-2111 A  | 13412224.80                                                     | 2600089.84                                                     | 78.14                                                   | 0.06       | 0.06       | 0.02           |
| C-2111 B  | 13412225.10                                                     | 2600087.29                                                     | 78.28                                                   | 0.04       | 0.06       | 0.02           |
| C-2111 C  | 13412238.89                                                     | 2600087.16                                                     | 78.04                                                   | 0.05       | 0.05       | 0.02           |
| C-2111 D  | 13412212.18                                                     | 2600086.06                                                     | 79.22                                                   | 0.05       | 0.06       | 0.00           |
| C-2112    | 13412358.60                                                     | 2600185.71                                                     | 79.55                                                   | 0.03       | 0.04       | 0.03           |
| C-2113    | 13412251.45                                                     | 2600231.11                                                     | 79.31                                                   | 0.05       | 0.01       | 0.02           |
| C-2201    | 13413541.97                                                     | 2600349.92                                                     | 80.62                                                   | 0.03       | 0.06       | 0.04           |
| C-2202 S  | 13413315.91                                                     | 2600345.61                                                     | 80.42                                                   | 0.00       | 0.02       | 0.05           |
| C-2203    | 13413489.00                                                     | 2600490.16                                                     | 80.56                                                   | 0.05       | 0.02       | 0.01           |
| C-2204 S  | 13412953.12                                                     | 2600347.76                                                     | 80.35                                                   | 0.05       | 0.04       | 0.00           |
| C-2204 SA | 13412954.25                                                     | 2600354.46                                                     | 80.30                                                   | 0.08       | 0.06       | 0.00           |
| C-2204 SB | 13412963.86                                                     | 2600351.20                                                     | 80.18                                                   | 0.05       | 0.02       | 0.05           |
| C-2205    | 13413036.37                                                     | 2600417.96                                                     | 80.39                                                   | 0.08       | 0.04       | 0.06           |
| C-2206    | 13413081.83                                                     | 2600615.27                                                     | 80.22                                                   | 0.03       | 0.04       | 0.01           |

| CPT NO.   | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83 TXSC<br>US FT. | AVERAGE<br>ORTHOMETRI<br>C ELEVATION<br>NAVD88 US<br>FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV. |
|-----------|-----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|------------|------------|----------------|
| C-2206 S  | 13413071.11                                                     | 2600604.08                                                     | 80.63                                                    | 0.04       | 0.03       | 0.09           |
| C-2207    | 13413071.18                                                     | 2600687.06                                                     | 80.39                                                    | 0.10       | 0.04       | 0.00           |
| C-2208    | 13413191.48                                                     | 2600748.18                                                     | 80.54                                                    | 0.08       | 0.04       | 0.03           |
| C-2209 S  | 13413311.92                                                     | 2600780.51                                                     | 80.27                                                    | 0.05       | 0.05       | 0.06           |
| C-2210    | 13413244.43                                                     | 2600858.74                                                     | 80.30                                                    | 0.07       | 0.06       | 0.01           |
| C-2210 A  | 13413246.80                                                     | 2600860.38                                                     | 79.87                                                    | 0.04       | 0.01       | 0.04           |
| C-2211    | 13412992.38                                                     | 2600730.80                                                     | 80.20                                                    | 0.12       | 0.03       | 0.04           |
| C-2212    | 13413123.28                                                     | 2600827.18                                                     | 80.44                                                    | 0.10       | 0.06       | 0.05           |
| C-2213    | 13413017.49                                                     | 2600874.63                                                     | 80.46                                                    | 0.13       | 0.06       | 0.03           |
| C-2214    | 13412587.86                                                     | 2600280.45                                                     | 79.86                                                    | 0.05       | 0.02       | 0.03           |
| C-2215    | 13412539.13                                                     | 2600425.19                                                     | 79.83                                                    | 0.07       | 0.04       | 0.02           |
| C-2216    | 13414151.27                                                     | 2600733.87                                                     | 80.54                                                    | 0.01       | 0.05       | 0.10           |
| C-2301 S  | 13408989.39                                                     | 2599158.23                                                     | 79.08                                                    | 0.02       | 0.04       | 0.03           |
| C-2301 SA | 13408982.41                                                     | 2599162.20                                                     | 78.70                                                    | 0.00       | 0.02       | 0.02           |
| C-2302    | 13412519.49                                                     | 2602124.85                                                     | 77.49                                                    | 0.05       | 0.04       | 0.04           |
| C-2303 S  | 13416428.66                                                     | 2605405.65                                                     | 76.79                                                    | 0.04       | 0.03       | 0.08           |
| C-2304    | 13418878.70                                                     | 2607463.62                                                     | 74.85                                                    | 0.07       | 0.08       | 0.04           |
| C-2305    | 13408849.43                                                     | 2603251.14                                                     | 75.47                                                    | 0.02       | 0.04       | 0.02           |
| C-2306    | 13411148.27                                                     | 2605179.25                                                     | 77.54                                                    | 0.09       | 0.01       | 0.05           |
| C-2307    | 13414685.38                                                     | 2608147.28                                                     | 74.88                                                    | 0.06       | 0.05       | 0.05           |
| C-2308    | 13415348.90                                                     | 2610567.73                                                     | 58.02                                                    | 0.08       | 0.05       | 0.06           |
| C-2309    | 13405587.95                                                     | 2604945.49                                                     | 72.92                                                    | 0.08       | 0.05       | 0.06           |
| C-2310    | 13409556.77                                                     | 2608738.56                                                     | 70.88                                                    | 0.05       | 0.01       | 0.09           |
| C-2311    | 13413231.26                                                     | 2613049.76                                                     | 41.70                                                    | 0.01       | 0.04       | 0.04           |
| C-2311 A  | 13413277.55                                                     | 2612969.43                                                     | 50.49                                                    | 0.03       | 0.05       | 0.06           |
| C-2312    | 13397971.98                                                     | 2606226.92                                                     | 64.99                                                    | 0.01       | 0.01       | 0.03           |
| C-2313    | 13399066.96                                                     | 2607529.09                                                     | 71.17                                                    | 0.00       | 0.03       | 0.01           |
| C-2314    | 13402413.42                                                     | 2608270.67                                                     | 69.45                                                    | 0.06       | 0.01       | 0.08           |
| C-2315    | 13405943.12                                                     | 2612535.56                                                     | 66.35                                                    | 0.03       | 0.03       | 0.00           |
| C-2316    | 13407731.74                                                     | 2614700.43                                                     | 68.23                                                    | 0.01       | 0.00       | 0.04           |
| C-2317    | 13408493.37                                                     | 2617901.20                                                     | 45.17                                                    | 0.01       | 0.00       | 0.03           |
| C-2318    | 13403305.07                                                     | 2613240.79                                                     | 66.39                                                    | 0.02       | 0.00       | 0.04           |
| C-2319    | 13406689.77                                                     | 2617807.82                                                     | 65.56                                                    | 0.02       | 0.00       | 0.01           |
| C-2321 S  | 13397141.61                                                     | 2611187.71                                                     | 65.80                                                    | 0.01       | 0.00       | 0.03           |
| C-2321 SA | 13397149.37                                                     | 2611182.17                                                     | 65.90                                                    | 0.03       | 0.01       | 0.02           |
| C-2322    | 13400701.15                                                     | 2615409.91                                                     | 62.19                                                    | 0.01       | 0.03       | 0.04           |
| C-2323 S  | 13404257.20                                                     | 2619650.56                                                     | 65.67                                                    | 0.02       | 0.03       | 0.01           |
| C-2324    | 13406320.31                                                     | 2622094.07                                                     | 63.58                                                    | 0.03       | 0.02       | 0.04           |
| C-2328    | 13395274.28                                                     | 2609720.08                                                     | 65.62                                                    | 0.02       | 0.05       | 0.02           |



| OBSERVATION<br>WELL NO. | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83<br>TXSC US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83<br>TXSC US FT. | AVERAGE<br>ORTHOMETRIC<br>ELEVATION<br>NAVD88 US FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV |
|-------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|------------|------------|---------------|
| OW-01 L                 | 13404252.09                                                     | 2606686.52                                                     | 73.74                                                | 0.03       | 0.03       | 0.03          |
| OW-01 L TOP CONC        | 13404252.72                                                     | 2606685.58                                                     | 72.22                                                | 0.05       | 0.03       | 0.03          |
| OW-01 U                 | 13404253.64                                                     | 2606666.85                                                     | 73.65                                                | 0.02       | 0.03       | 0.01          |
| OW-01 U TOP CONC        | 13404254.49                                                     | 2606666.07                                                     | 72.16                                                | 0.06       | 0.06       | 0.03          |
| OW-02 L                 | 13411520.51                                                     | 2607869.30                                                     | 76.53                                                | 0.03       | 0.05       | 0.01          |
| OW-02 L TOP CONC        | 13411521.57                                                     | 2607868.98                                                     | 75.07                                                | 0.06       | 0.02       | 0.05          |
| OW-02 U                 | 13411502.39                                                     | 2607862.19                                                     | 76.74                                                | 0.04       | 0.03       | 0.05          |
| OW-02 U TOP CONC        | 13411503.36                                                     | 2607861.75                                                     | 75.25                                                | 0.08       | 0.01       | 0.01          |
| OW-03 L                 | 13414918.69                                                     | 2609286.61                                                     | 76.67                                                | 0.02       | 0.01       | 0.05          |
| OW-03 L TOP CONC        | 13414918.42                                                     | 2609285.47                                                     | 75.21                                                | 0.01       | 0.03       | 0.07          |
| OW-03U                  | 13414934.48                                                     | 2609294.86                                                     | 77.05                                                | 0.02       | 0.01       | 0.05          |
| OW-03 U TOP CONC        | 13414934.52                                                     | 2609293.72                                                     | 75.60                                                | 0.04       | 0.05       | 0.04          |
| OW-04 L                 | 13414268.74                                                     | 2607440.23                                                     | 80.67                                                | 0.03       | 0.01       | 0.01          |
| OW-04 L TOP CONC        | 13414269.01                                                     | 2607439.15                                                     | 79.13                                                | 0.04       | 0.05       | 0.01          |
| OW-04 U                 | 13414280.51                                                     | 2607428.57                                                     | 81.08                                                | 0.02       | 0.01       | 0.02          |
| OW-04 U TOP CONC        | 13414280.58                                                     | 2607427.43                                                     | 79.61                                                | 0.04       | 0.00       | 0.00          |
| OW-05 L                 | 13414774.22                                                     | 2605813.28                                                     | 79.90                                                | 0.02       | 0.03       | 0.07          |
| OW-05 L TOP CONC        | 13414775.20                                                     | 2605812.65                                                     | 78.26                                                | 0.01       | 0.01       | 0.03          |
| OW-05 U                 | 13414770.21                                                     | 2605832.08                                                     | 79.55                                                | 0.02       | 0.01       | 0.06          |
| OW-05 U TOP CONC        | 13414771.22                                                     | 2605831.64                                                     | 78.07                                                | 0.02       | 0.00       | 0.03          |
| OW-06 L                 | 13415889.64                                                     | 2604964.90                                                     | 81.55                                                | 0.09       | 0.09       | 0.00          |
| OW-06 L TOP CONC        | 13415890.25                                                     | 2604964.02                                                     | 79.49                                                | 0.08       | 0.08       | 0.08          |
| OW-06 U                 | 13415875.58                                                     | 2604966.94                                                     | 80.77                                                | 0.07       | 0.06       | 0.02          |
| OW-06 U TOP CONC        | 13415876.40                                                     | 2604966.04                                                     | 79.46                                                | 0.03       | 0.10       | 0.06          |
| OW-07 L                 | 13418420.52                                                     | 2606531.28                                                     | 79.04                                                | 0.06       | 0.05       | 0.03          |
| OW-07 L TOP CONC        | 13418421.26                                                     | 2606530.50                                                     | 77.47                                                | 0.05       | 0.07       | 0.02          |
| OW-07 U                 | 13418421.40                                                     | 2606542.01                                                     | 79.02                                                | 0.07       | 0.05       | 0.02          |
| OW-07 U TOP CONC        | 13418422.28                                                     | 2606541.26                                                     | 77.32                                                | 0.05       | 0.07       | 0.07          |
| OW-08 L                 | 13415818.85                                                     | 2598942.49                                                     | 84.07                                                | 0.07       | 0.04       | 0.00          |
| OW-08 L TOP CONC        | 13415818.87                                                     | 2598943.53                                                     | 82.56                                                | 0.02       | 0.05       | 0.03          |
| OW-08 U                 | 13415801.21                                                     | 2598934.58                                                     | 83.88                                                | 0.05       | 0.05       | 0.02          |
| OW-08 U TOP CONC        | 13415801.21                                                     | 2598935.76                                                     | 82.38                                                | 0.02       | 0.13       | 0.05          |
| OW-09 L                 | 13414937.42                                                     | 2604893.58                                                     | 80.00                                                | 0.06       | 0.01       | 0.10          |
| OW-09 L TOP CONC        | 13414938.28                                                     | 2604892.97                                                     | 77.86                                                | 0.10       | 0.04       | 0.06          |
| OW-09 U                 | 13414956.05                                                     | 2604894.51                                                     | 79.24                                                | 0.08       | 0.08       | 0.05          |
| OW-09 U TOP CONC        | 13414955.40                                                     | 2604895.32                                                     | 77.91                                                | 0.02       | 0.06       | 0.00          |
| OW-10 L                 | 13418486.44                                                     | 2604760.99                                                     | 79.88                                                | 0.01       | 0.05       | 0.03          |
| OW-10 L TOP CONC        | 13418487.53                                                     | 2604761.06                                                     | 78.07                                                | 0.01       | 0.05       | 0.06          |
| OW-10 U                 | 13418474.37                                                     | 2604768.43                                                     | 79.53                                                | 0.08       | 0.04       | 0.05          |
| OW-10 U TOP CONC        | 13418475.58                                                     | 2604768.57                                                     | 78.09                                                | 0.00       | 0.05       | 0.03          |

| OBSERVATION<br>WELL NO. | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83<br>TXSC US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83<br>TXSC US FT. | AVERAGE<br>ORTHOMETRIC<br>ELEVATION<br>NAVD88 US FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV |
|-------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|------------|------------|---------------|
| OW-2150 L               | 13412552.91                                                     | 2599585.12                                                     | 82.45                                                | 0.08       | 0.05       | 0.01          |
| OW-2150 L TOP CONC      | 13412554.00                                                     | 2599585.62                                                     | 80.87                                                | 0.07       | 0.03       | 0.02          |
| OW-2150 U               | 13412568.08                                                     | 2599582.77                                                     | 82.78                                                | 0.11       | 0.05       | 0.05          |
| OW-2150 U TOP CONC      | 13412569.02                                                     | 2599583.62                                                     | 80.91                                                | 0.06       | 0.08       | 0.03          |
| OW-2169 L               | 13412356.74                                                     | 2599930.20                                                     | 81.72                                                | 0.08       | 0.04       | 0.01          |
| OW-2169 L TOP CONC      | 13412357.98                                                     | 2599930.15                                                     | 80.04                                                | 0.03       | 0.03       | 0.00          |
| OW-2169 U               | 13412343.77                                                     | 2599945.85                                                     | 81.77                                                | 0.07       | 0.04       | 0.02          |
| OW-2169 U TOP CONC      | 13412344.89                                                     | 2599945.62                                                     | 80.11                                                | 0.05       | 0.04       | 0.01          |
| OW-2181L                | 13412138.42                                                     | 2600071.96                                                     | 81.32                                                | 0.09       | 0.06       | 0.07          |
| OW-2181 L TOP CONC      | 13412139.35                                                     | 2600071.54                                                     | 79.88                                                | 0.05       | 0.02       | 0.03          |
| OW-2181 U               | 13412147.38                                                     | 2600052.86                                                     | 81.31                                                | 0.07       | 0.06       | 0.03          |
| OW-2181 U TOP CONC      | 13412148.36                                                     | 2600052.29                                                     | 80.01                                                | 0.03       | 0.03       | 0.02          |
| OW-2185 L               | 13412314.47                                                     | 2600815.69                                                     | 81.36                                                | 0.02       | 0.02       | 0.02          |
| OW-2185 L TOP CONC      | 13412315.64                                                     | 2600815.86                                                     | 79.76                                                | 0.04       | 0.04       | 0.04          |
| OW-2185 U               | 13412328.07                                                     | 2600801.11                                                     | 81.45                                                | 0.02       | 0.02       | 0.03          |
| OW-2185 U TOP CONC      | 13412329.14                                                     | 2600800.87                                                     | 79.89                                                | 0.02       | 0.01       | 0.02          |
| OW-2253 L               | 13413584.76                                                     | 2600494.74                                                     | 82.82                                                | 0.07       | 0.06       | 0.05          |
| OW-2253 L TOP CONC      | 13413585.74                                                     | 2600494.29                                                     | 81.18                                                | 0.07       | 0.06       | 0.03          |
| OW-2253 U               | 13413591.55                                                     | 2600474.37                                                     | 82.66                                                | 0.07       | 0.06       | 0.02          |
| OW-2253 U TOP CONC      | 13413592.61                                                     | 2600473.94                                                     | 81.17                                                | 0.08       | 0.04       | 0.03          |
| OW-2269 L               | 13413123.29                                                     | 2600574.23                                                     | 82.55                                                | 0.04       | 0.01       | 0.01          |
| OW-2269 L TOP CONC      | 13413124.53                                                     | 2600574.10                                                     | 80.89                                                | 0.07       | 0.07       | 0.02          |
| OW-2269 U               | 13413110.10                                                     | 2600589.08                                                     | 82.43                                                | 0.07       | 0.05       | 0.04          |
| OW-2269 U TOP CONC      | 13413111.38                                                     | 2600589.01                                                     | 80.75                                                | 0.09       | 0.05       | 0.01          |
| OW-2284 L               | 13413063.71                                                     | 2600939.04                                                     | 82.74                                                | 0.05       | 0.06       | 0.09          |
| OW-2284 U TOP CONC      | 13413064.86                                                     | 2600938.54                                                     | 80.97                                                | 0.11       | 0.10       | 0.05          |
| OW-2284U                | 13413055.14                                                     | 2600956.60                                                     | 82.62                                                | 0.06       | 0.06       | 0.08          |
| OW-2284 L TOP CONC      | 13413056.14                                                     | 2600956.28                                                     | 80.98                                                | 0.05       | 0.05       | 0.04          |
| OW-2301 L               | 13414429.77                                                     | 2596268.29                                                     | 83.19                                                | 0.02       | 0.05       | 0.17          |
| OW-2301 L TOP CONC      | 13414430.11                                                     | 2596268.35                                                     | 81.89                                                | 0.12       | 0.03       | 0.04          |
| OW-2301 U               | 13414430.08                                                     | 2596288.46                                                     | 83.27                                                | 0.02       | 0.02       | 0.05          |
| OW-2301 U TOP CONC      | 13414430.39                                                     | 2596288.71                                                     | 81.77                                                | 0.02       | 0.03       | 0.03          |
| OW-2302 L               | 13407382.11                                                     | 2598388.94                                                     | 81.95                                                | 0.02       | 0.02       | 0.06          |
| OW-2302 L TOP CONC      | 13407382.70                                                     | 2598388.05                                                     | 80.46                                                | 0.04       | 0.04       | 0.04          |
| OW-2302 U               | 13407361.50                                                     | 2598388.47                                                     | 81.99                                                | 0.03       | 0.02       | 0.03          |
| OW-2302 U TOP CONC      | 13407362.26                                                     | 2598387.74                                                     | 80.52                                                | 0.03       | 0.03       | 0.01          |
| OW-2304 L               | 13396528.12                                                     | 2608678.06                                                     | 69.73                                                | 0.03       | 0.03       | 0.05          |
| OW-2304 L TOP CONC      | 13396528.37                                                     | 2608678.09                                                     | 68.88                                                | 0.00       | 0.03       | 0.01          |
| OW-2304-U               | 13396542.39                                                     | 2608679.35                                                     | 70.10                                                | 0.02       | 0.05       | 0.02          |
| OW-2304-U TOP CONC      | 13396542.58                                                     | 2608679.36                                                     | 68.80                                                | 0.00       | 0.04       | 0.04          |



| OBSERVATION<br>WELL NO. | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83<br>TXSC US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83<br>TXSC US FT. | AVERAGE<br>ORTHOMETRIC<br>ELEVATION<br>NAVD88 US FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV |
|-------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|------------|------------|---------------|
| OW-2307 L               | 13420879.09                                                     | 2603152.12                                                     | 78.56                                                | 0.05       | 0.07       | 0.04          |
| OW-2307 L TOP CONC      | 13420880.36                                                     | 2603152.11                                                     | 76.91                                                | 0.05       | 0.03       | 0.11          |
| OW-2307 U               | 13420896.73                                                     | 2603164.23                                                     | 78.59                                                | 0.07       | 0.03       | 0.13          |
| OW-2307 U TOP CONC      | 13420897.85                                                     | 2603164.32                                                     | 77.07                                                | 0.03       | 0.03       | 0.08          |
| OW-2319 L               | 13403611.30                                                     | 2603051.83                                                     | 76.05                                                | 0.02       | 0.01       | 0.02          |
| OW-2319 L TOP CONC      | 13403612.25                                                     | 2603051.49                                                     | 74.68                                                | 0.01       | 0.02       | 0.04          |
| OW-2319 U               | 13403590.40                                                     | 2603046.21                                                     | 75.97                                                | 0.03       | 0.01       | 0.03          |
| OW-2319 U TOP CONC      | 13403590.49                                                     | 2603047.46                                                     | 74.33                                                | 0.03       | 0.05       | 0.06          |
| OW-2320 L               | 13407580.88                                                     | 2606834.36                                                     | 73.19                                                | 0.06       | 0.04       | 0.01          |
| OW-2320 L TOP CONC      | 13407581.88                                                     | 2606833.72                                                     | 71.76                                                | 0.03       | 0.05       | 0.02          |
| OW-2320 U               | 13407569.51                                                     | 2606849.70                                                     | 73.50                                                | 0.04       | 0.02       | 0.08          |
| OW-2320 U TOP CONC      | 13407570.41                                                     | 2606850.68                                                     | 71.80                                                | 0.05       | 0.03       | 0.02          |
| OW-2320 U1              | 13407445.66                                                     | 2607080.05                                                     | 72.90                                                | 0.03       | 0.05       | 0.01          |
| OW-2320 U1 TOP CONC     | 13407446.90                                                     | 2607079.84                                                     | 71.36                                                | 0.01       | 0.02       | 0.04          |
| OW-2320 U2              | 13407436.76                                                     | 2607093.25                                                     | 72.92                                                | 0.02       | 0.03       | 0.03          |
| OW-2320 U2 TOP CONC     | 13407437.85                                                     | 2607093.17                                                     | 71.36                                                | 0.07       | 0.04       | 0.06          |
| OW-2320 U3              | 13407448.17                                                     | 2607121.37                                                     | 72.84                                                | 0.01       | 0.03       | 0.03          |
| OW-2320 U3 TOP CONC     | 13407449.28                                                     | 2607121.38                                                     | 71.36                                                | 0.03       | 0.09       | 0.08          |
| OW-2320 U4              | 13407466.49                                                     | 2607138.42                                                     | 72.91                                                | 0.01       | 0.02       | 0.02          |
| OW-2320 U4 TOP CONC     | 13407466.35                                                     | 2607137.26                                                     | 71.42                                                | 0.01       | 0.03       | 0.05          |
| OW-2321 L               | 13410955.46                                                     | 2610027.59                                                     | 73.54                                                | 0.01       | 0.01       | 0.01          |
| OW-2321 L TOP CONC      | 13410955.77                                                     | 2610026.59                                                     | 71.99                                                | 0.00       | 0.01       | 0.01          |
| OW-2321 U               | 13410943.58                                                     | 2610040.96                                                     | 73.27                                                | 0.01       | 0.00       | 0.04          |
| OW-2321 U TOP CONC      | 13410943.88                                                     | 2610039.88                                                     | 71.79                                                | 0.00       | 0.03       | 0.01          |
| OW-2324 L               | 13416300.52                                                     | 2612217.00                                                     | 26.27                                                | 0.02       | 0.03       | 0.05          |
| OW-2324 L TOP GND       | 13416300.92                                                     | 2612216.76                                                     | 24.85                                                | 0.01       | 0.01       | 0.06          |
| OW-2324 U               | 13416316.54                                                     | 2612203.23                                                     | 26.17                                                | 0.02       | 0.01       | 0.02          |
| OW-2324 U TOP GND       | 13416317.04                                                     | 2612203.55                                                     | 24.67                                                | 0.01       | 0.05       | 0.04          |
| OW-2348 L               | 13409617.75                                                     | 2621644.36                                                     | 52.70                                                | 0.02       | 0.02       | 0.02          |
| OW-2348 L TOP CONC      | 13409617.95                                                     | 2621643.16                                                     | 51.21                                                | 0.01       | 0.00       | 0.01          |
| OW-2348 U               | 13409636.31                                                     | 2621660.58                                                     | 52.12                                                | 0.03       | 0.02       | 0.01          |
| OW-2348 U TOP CONC      | 13409636.43                                                     | 2621659.33                                                     | 50.56                                                | 0.02       | 0.02       | 0.03          |
| OW-2352 L               | 13402468.45                                                     | 2617518.54                                                     | 64.60                                                | 0.01       | 0.02       | 0.02          |
| OW-2352 L TOP CONC      | 13402468.79                                                     | 2617518.57                                                     | 63.33                                                | 0.01       | 0.00       | 0.00          |
| OW-2352 U               | 13402470.61                                                     | 2617538.69                                                     | 64.47                                                | 0.03       | 0.04       | 0.02          |
| OW-2352 U TOP CONC      | 13402470.92                                                     | 2617538.74                                                     | 63.17                                                | 0.02       | 0.03       | 0.04          |
| OW-2359 L1              | 13417263.65                                                     | 2605470.56                                                     | 79.36                                                | 0.00       | 0.03       | 0.02          |
| OW-2359 L1 TOP CONC     | 13417263.98                                                     | 2605469.40                                                     | 78.08                                                | 0.00       | 0.02       | 0.01          |
| OW-2359 L2              | 13417259.76                                                     | 2605433.37                                                     | 78.93                                                | 0.01       | 0.06       | 0.08          |
| OW-2359 L2 TOP CONC     | 13417260.94                                                     | 2605433.42                                                     | 77.56                                                | 0.03       | 0.04       | 0.04          |

| OBSERVATION<br>WELL NO. | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83<br>TXSC US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83<br>TXSC US FT. | AVERAGE<br>ORTHOMETRIC<br>ELEVATION<br>NAVD88 US FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV |
|-------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|------------|------------|---------------|
| OW-2359 L3              | 13417278.58                                                     | 2605416.18                                                     | 78.83                                                | 0.06       | 0.03       | 0.13          |
| OW-2359 L3 TOP CONC     | 13417279.01                                                     | 2605415.10                                                     | 77.26                                                | 0.02       | 0.01       | 0.01          |
| OW-2359-U1              | 13417252.64                                                     | 2605460.64                                                     | 79.29                                                | 0.03       | 0.00       | 0.04          |
| OW-2359-U1 TOP CONC     | 13417253.02                                                     | 2605459.59                                                     | 77.66                                                | 0.02       | 0.02       | 0.01          |
| TW-2320 U               | 13407428.59                                                     | 2607105.51                                                     | 72.72                                                | 0.02       | 0.01       | 0.00          |
| TW-2320 U TOP CONC      | 13407429.59                                                     | 2607105.40                                                     | 71.50                                                | 0.03       | 0.01       | 0.02          |
| TW-2359 L               | 13417241.41                                                     | 2605450.48                                                     | 79.88                                                | 0.03       | 0.07       | 0.09          |
| TW-2359 L TOP CONC      | 13417242.94                                                     | 2605450.87                                                     | 77.69                                                | 0.01       | 0.01       | 0.02          |

| RESISTIVITY                    | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83<br>TXSC US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83<br>TXSC US FT. | AVERAGE<br>ORTHOMETRIC<br>ELEVATION<br>NAVD88 US FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV. |
|--------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|------------|------------|----------------|
| R-2101 A                       | 13412761.28                                                     | 2599119.76                                                     | 80.81                                                | 0.03       | 0.03       | 0.03           |
| R-2101 D                       | 13412177.28                                                     | 2599801.44                                                     | 79.88                                                | 0.00       | 0.00       | 0.03           |
| R-2101/ R-2102<br>CENTER POINT | 13412470.72                                                     | 2599460.82                                                     | 80.53                                                | 0.02       | 0.03       | 0.05           |
| R-2102 A                       | 13412813.73                                                     | 2599752.01                                                     | 79.50                                                | 0.03       | 0.06       | 0.01           |
| R-2102 D                       | 13412127.65                                                     | 2599169.54                                                     | 80.79                                                | 0.01       | 0.00       | 0.02           |
| R-2201 A                       | 13413688.62                                                     | 2599921.76                                                     | 80.69                                                | 0.01       | 0.00       | 0.07           |
| R-2201 D                       | 13413110.41                                                     | 2600611.49                                                     | 80.28                                                | 0.06       | 0.00       | 0.08           |
| R-2201/ R-2202<br>CENTER POINT | 13413399.51                                                     | 2600266.58                                                     | 80.66                                                | 0.05       | 0.07       | 0.01           |
| R-2202 A                       | 13413039.50                                                     | 2599964.52                                                     | 80.52                                                | 0.07       | 0.03       | 0.03           |
| R-2202 D                       | 13413744.28                                                     | 2600555.69                                                     | 80.79                                                | 0.07       | 0.03       | 0.03           |

| TEST PIT | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83<br>TXSC US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83<br>TXSC US FT. | AVERAGE<br>ORTHOMETRIC<br>ELEVATION<br>NAVD88 US FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV. |
|----------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|------------|------------|----------------|
| TP-2101  | 13412437.27                                                     | 2599756.15                                                     | 80.43                                                | 0.01       | 0.02       | 0.04           |
| TP-2102  | 13412124.00                                                     | 2599818.54                                                     | 80.35                                                | 0.05       | 0.03       | 0.04           |
| TP-2103  | 13411950.60                                                     | 2600103.92                                                     | 79.70                                                | 0.05       | 0.02       | 0.04           |
| TP-2104  | 13412451.21                                                     | 2600288.03                                                     | 80.20                                                | 0.03       | 0.04       | 0.03           |
| TP-2201  | 13413198.85                                                     | 2600399.35                                                     | 79.85                                                | 0.03       | 0.03       | 0.05           |
| TP-2202  | 13412889.65                                                     | 2600464.19                                                     | 80.60                                                | 0.04       | 0.01       | 0.03           |
| TP-2203  | 13412717.50                                                     | 2600741.27                                                     | 80.26                                                | 0.07       | 0.04       | 0.03           |
| TP-2204  | 13413215.93                                                     | 2600931.80                                                     | 80.84                                                | 0.03       | 0.03       | 0.07           |

| TEST PIT | AVERAGE<br>AS-BUILT<br>GRID<br>NORTHING<br>NAD83<br>TXSC US FT. | AVERAGE<br>AS-BUILT<br>GRID<br>EASTING<br>NAD83<br>TXSC US FT. | AVERAGE<br>ORTHOMETRIC<br>ELEVATION<br>NAVD88 US FT. | $\sigma$ N | $\sigma$ E | $\sigma$ ELEV. |
|----------|-----------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------|------------|------------|----------------|
| TP-2310  | 13406614.56                                                     | 2601358.66                                                     | 75.57                                                | 0.09       | 0.04       | 0.02           |
| TP-2314  | 13413935.46                                                     | 2607799.59                                                     | 74.70                                                | 0.02       | 0.02       | 0.03           |
| TP-2317  | 13410595.30                                                     | 2600492.45                                                     | 76.76                                                | 0.07       | 0.02       | 0.06           |
| TP-2319  | 13403607.12                                                     | 2603037.74                                                     | 74.25                                                | 0.09       | 0.07       | 0.05           |
| TP-2320  | 13407598.78                                                     | 2606824.54                                                     | 71.41                                                | 0.01       | 0.02       | 0.01           |
| TP-2321  | 13410972.16                                                     | 2610031.41                                                     | 70.82                                                | 0.01       | 0.02       | 0.01           |
| TP-2332  | 13414422.39                                                     | 2603751.85                                                     | 78.22                                                | 0.03       | 0.02       | 0.02           |
| TP-2334  | 13400632.04                                                     | 2606110.32                                                     | 72.41                                                | 0.09       | 0.09       | 0.08           |
| TP-2335  | 13404163.77                                                     | 2610401.63                                                     | 66.82                                                | 0.08       | 0.05       | 0.05           |
| TP-2337  | 13407266.15                                                     | 2614864.54                                                     | 66.92                                                | 0.02       | 0.01       | 0.04           |
| TP-2351  | 13398902.07                                                     | 2613286.15                                                     | 63.91                                                | 0.00       | 0.02       | 0.01           |
| TP-2352  | 13402479.96                                                     | 2617531.97                                                     | 62.97                                                | 0.02       | 0.01       | 0.06           |

### Conclusion

The as-built geospatial locations for all geotechnical borings on the Victoria County Site as defined by the Boring Location Plan issued by the Bechtel Corporation (Frederick, Maryland), Job No. 25352, Drawing No. 000-CY-0010-00002 and 000-CY-0010-00003, issued October 31, 2007 were located within the accuracies as defined by Work Instructions No. 208 being produced by MACTEC Engineering and Consulting Inc. and assigned MACTEC Project No. 6468-07-1777.

Compiled by Adam Salazar III, RPLS  
Project Surveyor  
SURVCON INC.  
Houston, Texas  
April 4, 2008  
Revised: 04/07/08  
Revised: 05/13/08



*[Handwritten Signature]*  
05/13/2008

**FINAL DATA REPORT Rev 0  
GEOTECHNICAL EXPLORATION AND TESTING**

**EXELON TEXAS COL PROJECT  
VICTORIA COUNTY, TEXAS  
POWER BLOCK**

**July 10, 2008**

**VOLUME 1  
Appendix B – Geotechnical Field Data**

**Prepared By:**

**MACTEC Engineering and Consulting, Inc.  
Raleigh, North Carolina**

**MACTEC Project No. 6468-07-1777**

**Prepared For:**

**Bechtel Power Corporation  
Subcontract No. 25352-102-HC4-CY00-00001**

**Contents**

**Geotechnical Boring Logs  
Test Pit Logs  
SPT Report**





## GEOTECHNICAL BORING LOG

Prepared By JPA Date 6-12-08Checked By KAW Date 7.10.08

SHEET 1 OF 3

|                                                     |               |                          |       |                                  |                |               |    |                                   |    |               |     |                                                                                        |                                                                                                                                               |
|-----------------------------------------------------|---------------|--------------------------|-------|----------------------------------|----------------|---------------|----|-----------------------------------|----|---------------|-----|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| BECHTEL PROJECT NO.: 25352                          |               |                          |       | COUNTY Victoria                  |                |               |    | GEOLOGIST C. Gandy                |    |               |     |                                                                                        |                                                                                                                                               |
| SITE DESCRIPTION Exelon COL Project (Victoria Site) |               |                          |       | MACTEC PROJECT NO.: 6468-07-1777 |                |               |    | GROUND WATER (ft)                 |    |               |     |                                                                                        |                                                                                                                                               |
| BORING NO. B-2150                                   |               | DRILL METHOD: Mud Rotary |       | SAMPLE METHODS: SPT              |                |               |    | 0 HR. ND                          |    | 24 HR. ND     |     |                                                                                        |                                                                                                                                               |
| GROUND SURFACE ELEV. 80.4 ft (NAVD88)               |               |                          |       | NORTHING 13,412,560              |                | US ft (NAD83) |    | EASTING 2,599,591                 |    | US ft (NAD83) |     |                                                                                        |                                                                                                                                               |
| TOTAL DEPTH 150.0 ft                                |               | DRILL MACHINE CME-55 LC  |       | DRILLER: D. White/O. Smith       |                |               |    | HAMMER (ID) 140 lb. Auto (MEC 02) |    |               |     |                                                                                        |                                                                                                                                               |
| DATE STARTED 11/8/07                                |               | COMPLETED 11/9/07        |       | CASING DEPTH: N/A                |                |               |    | BITS USED: 2 7/8" Wing Bit        |    |               |     |                                                                                        |                                                                                                                                               |
| ELEV.<br>(ft)                                       | DEPTH<br>(ft) | BLOW COUNT               |       |                                  | BLOWS PER FOOT |               |    |                                   |    | SAMP.<br>NO.  | LOG | SOIL AND ROCK DESCRIPTION                                                              |                                                                                                                                               |
|                                                     |               | 0.5ft                    | 0.5ft | 0.5ft                            | 0              | 20            | 40 | 60                                | 80 | 100           |     |                                                                                        |                                                                                                                                               |
| 80.4                                                |               |                          |       |                                  | Ground Surface |               |    |                                   |    |               |     | 80.4                                                                                   |                                                                                                                                               |
| 80.4                                                | 0.0           | 2                        | 3     | 4                                | ● 7            |               |    |                                   |    | SS-1          |     | 0.0                                                                                    | FAT CLAY (CH), very dark gray (5YR3/1), firm, moist, few fine sands, no HCl reaction, roots                                                   |
| 76.9                                                | 3.5           | 3                        | 7     | 9                                | ● 16           |               |    |                                   |    | SS-2          |     |                                                                                        | 3.5ft: dark gray (7.5YR4/1), very stiff, little sand, no HCl reaction, carbonate and iron nodules, slightly mottled                           |
| 74.4                                                | 6.0           | 6                        | 6     | 7                                | ● 13           |               |    |                                   |    | SS-3          |     | 74.4                                                                                   | 6.0                                                                                                                                           |
| 71.9                                                | 8.5           | 4                        | 5     | 6                                | ● 11           |               |    |                                   |    | SS-4          |     |                                                                                        | LEAN CLAY with sand (CL), pale brown (10YR6/3), stiff, carbonate nodules, strong HCl reaction, thinly laminated, organics                     |
| 69.4                                                | 11.0          | 7                        | 12    | 13                               | ● 25           |               |    |                                   |    | SS-5          |     |                                                                                        | 8.5ft: very pale brown (10YR7/3), weak HCl reaction, iron staining                                                                            |
| 66.9                                                | 13.5          | 6                        | 8     | 8                                | ● 16           |               |    |                                   |    | SS-6          |     |                                                                                        | 11.0ft: light gray (10YR7/2), very stiff, few sand, thinly laminated                                                                          |
| 61.9                                                | 18.5          | 4                        | 4     | 6                                | ● 10           |               |    |                                   |    | SS-7          |     |                                                                                        | 13.5ft: very pale brown (10YR7/3), strong HCl reaction,                                                                                       |
| 56.9                                                | 23.5          | 4                        | 5     | 6                                | ● 11           |               |    |                                   |    | SS-8          |     | 18.5ft: stiff, weak HCl reaction                                                       |                                                                                                                                               |
| 51.9                                                | 28.5          | 4                        | 6     | 8                                | ● 14           |               |    |                                   |    | SS-9          |     | 56.9                                                                                   | 23.5                                                                                                                                          |
| 46.9                                                | 33.5          | 5                        | 6     | 8                                | ● 14           |               |    |                                   |    | SS-10         |     |                                                                                        | FAT CLAY (CH), reddish yellow (7.5YR7/8), mottled light greenish gray (10Y8/1), stiff, few sand, strong HCl reaction, trace carbonate nodules |
| 41.9                                                | 38.5          | 4                        | 5     | 6                                | ● 11           |               |    |                                   |    | SS-11         |     |                                                                                        | 28.5ft: mottled yellow (10YR7/8), little sand, trace organics                                                                                 |
| 36.9                                                | 43.5          | 5                        | 8     | 12                               | ● 20           |               |    |                                   |    | SS-12         |     | 33.5ft: few sand                                                                       |                                                                                                                                               |
| 31.9                                                | 48.5          | 5                        | 7     | 10                               | ● 17           |               |    |                                   |    | SS-13         |     | 38.5ft: brownish yellow (10YR6/6), mottled light greenish gray (10Y8/1), iron staining |                                                                                                                                               |
| 26.9                                                | 53.5          | 7                        | 10    | 9                                | ● 19           |               |    |                                   |    | SS-14         |     | 36.9                                                                                   | 43.5                                                                                                                                          |
|                                                     |               |                          |       |                                  |                |               |    |                                   |    |               |     |                                                                                        | FAT CLAY with sand (CH), brownish yellow (10YR6/6), mottled very pale brown (10YR7/4), very stiff, little sand, weak HCl reaction             |
|                                                     |               |                          |       |                                  |                |               |    |                                   |    |               |     | 48.5ft: no HCl reaction                                                                |                                                                                                                                               |
|                                                     |               |                          |       |                                  |                |               |    |                                   |    |               |     | 26.9                                                                                   | 53.5                                                                                                                                          |
|                                                     |               |                          |       |                                  |                |               |    |                                   |    |               |     |                                                                                        | Silty SAND (SM), pale yellow (2.5Y7/3), firm, wet, little fines, iron staining, no HCl reaction                                               |

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



SHEET 2 OF 3

|                                                     |               |                          |        |                                  |                              |                   |    |                                   |    |              |     |                           |                                                                                                                                                                |       |
|-----------------------------------------------------|---------------|--------------------------|--------|----------------------------------|------------------------------|-------------------|----|-----------------------------------|----|--------------|-----|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| BECHTEL PROJECT NO.: 25352                          |               |                          |        | COUNTY Victoria                  |                              |                   |    | GEOLOGIST C. Gandy                |    |              |     |                           |                                                                                                                                                                |       |
| SITE DESCRIPTION Exelon COL Project (Victoria Site) |               |                          |        | MACTEC PROJECT NO.: 6468-07-1777 |                              |                   |    | GROUND WATER (ft)                 |    |              |     |                           |                                                                                                                                                                |       |
| BORING NO. B-2150                                   |               | DRILL METHOD: Mud Rotary |        | SAMPLE METHODS: SPT              |                              |                   |    | 0 HR.                             |    | ND           |     |                           |                                                                                                                                                                |       |
| GROUND SURFACE ELEV. 80.4 ft (NAVD88)               |               | NORTHING 13,412,560      |        | US ft (NAD83)                    |                              | EASTING 2,599,591 |    | US ft (NAD83)                     |    | 24 HR. ND    |     |                           |                                                                                                                                                                |       |
| TOTAL DEPTH 150.0 ft                                |               | DRILL MACHINE CME-55 LC  |        | DRILLER: D. White/O. Smith       |                              |                   |    | HAMMER (ID) 140 lb. Auto (MEC 02) |    |              |     |                           |                                                                                                                                                                |       |
| DATE STARTED 11/8/07                                |               | COMPLETED 11/9/07        |        | CASING DEPTH: N/A                |                              |                   |    | BITS USED: 2 7/8" Wing Bit        |    |              |     |                           |                                                                                                                                                                |       |
| ELEV.<br>(ft)                                       | DEPTH<br>(ft) | BLOW COUNT               |        |                                  | BLOWS PER FOOT               |                   |    |                                   |    | SAMP.<br>NO. | LOG | SOIL AND ROCK DESCRIPTION |                                                                                                                                                                |       |
|                                                     |               | 0.5ft                    | 0.5ft  | 0.5ft                            | 0                            | 20                | 40 | 60                                | 80 | 100          | MOI |                           |                                                                                                                                                                |       |
| 24.3                                                |               |                          |        |                                  | Continued from previous page |                   |    |                                   |    |              |     |                           |                                                                                                                                                                |       |
| 21.9                                                | 58.5          |                          |        |                                  |                              |                   |    |                                   |    |              |     | 21.9                      | Silty SAND (SM), pale yellow (2.5Y7/3), firm, wet, little fines, iron staining, no HCl reaction (continued)                                                    | 58.5  |
|                                                     |               | 19                       | 28     | 25                               |                              |                   |    |                                   |    | SS-15        |     |                           | Clayey SAND (SC), light gray (10YR7/2), very dense, moist, weak HCl reaction, carbonate nodules                                                                |       |
| 16.9                                                | 63.5          |                          |        |                                  |                              |                   |    |                                   |    |              |     |                           | 63.5ft: reddish yellow (7.5YR7/6), wet, no HCl reaction                                                                                                        |       |
|                                                     |               | 3                        | 7      | 8                                |                              |                   |    |                                   |    | SS-16A/B     |     | 16.3                      | FAT CLAY (CH), light yellowish brown (10YR6/4), mottled light greenish gray (10Y8/1), stiff, moist, few sands, trace carbonate nodules, weak HCl reaction      | 64.1  |
| 11.9                                                | 68.5          |                          |        |                                  |                              |                   |    |                                   |    |              |     |                           | 68.5ft: brownish yellow (10YR6/6), mottled light greenish gray (10YR8/1)                                                                                       |       |
|                                                     |               | 5                        | 6      | 8                                |                              |                   |    |                                   |    | SS-17        |     |                           |                                                                                                                                                                |       |
| 6.9                                                 | 73.5          |                          |        |                                  |                              |                   |    |                                   |    |              |     |                           | 73.5ft: light gray (10YR7/2), very stiff, little sand, no HCl reaction, iron staining, thinly laminated                                                        |       |
|                                                     |               | 6                        | 7      | 10                               |                              |                   |    |                                   |    | SS-18        |     |                           |                                                                                                                                                                |       |
| 1.9                                                 | 78.5          |                          |        |                                  |                              |                   |    |                                   |    |              |     |                           |                                                                                                                                                                |       |
|                                                     |               | 7                        | 9      | 11                               |                              |                   |    |                                   |    | SS-19        |     | 1.9                       | Clayey SAND (SC), light gray (10YR7/2), firm, wet, little fines, no HCl reaction, carbonate nodules, organics                                                  | 78.5  |
| -3.1                                                | 83.5          |                          |        |                                  |                              |                   |    |                                   |    |              |     |                           |                                                                                                                                                                |       |
|                                                     |               | 39                       | 50/0.4 |                                  |                              |                   |    |                                   |    | SS-20        |     | -3.1                      | POORLY GRADED SAND with silt (SP-SM), very pale brown (10YR8/2), very dense, wet, few fines, strong HCl reaction, thin lenses of cemented sand                 | 83.5  |
| -8.1                                                | 88.5          |                          |        |                                  |                              |                   |    |                                   |    |              |     |                           |                                                                                                                                                                |       |
|                                                     |               | 8                        | 8      | 11                               |                              |                   |    |                                   |    | SS-21        |     | -8.1                      | FAT CLAY (CH), light gray (10YR7/2), mottled yellowish brown (10YR5/8), very stiff, moist, no HCl reaction, carbonate nodules, iron staining, thinly laminated | 88.5  |
| -13.1                                               | 93.5          |                          |        |                                  |                              |                   |    |                                   |    |              |     |                           |                                                                                                                                                                |       |
|                                                     |               | 8                        | 12     | 24                               |                              |                   |    |                                   |    | SS-22        |     |                           | 93.5ft: very pale brown (10YR8/3), hard, some sand, strong HCl reaction                                                                                        |       |
| -18.1                                               | 98.5          |                          |        |                                  |                              |                   |    |                                   |    |              |     |                           |                                                                                                                                                                |       |
|                                                     |               | 48                       | 50/0.5 |                                  |                              |                   |    |                                   |    | SS-23        |     | -18.1                     | POORLY GRADED SAND (SP), very pale brown (10YR7/4), very dense, wet, fine to medium grained, few fines, strong HCl reaction                                    | 98.5  |
| -28.1                                               | 108.5         |                          |        |                                  |                              |                   |    |                                   |    |              |     |                           |                                                                                                                                                                |       |
|                                                     |               | 7                        | 10     | 12                               |                              |                   |    |                                   |    | SS-24        |     | -28.1                     | FAT CLAY with sand (CH), very pale brown (10YR7/4), very stiff, moist, little sand, weak HCl reaction, trace iron staining, trace mottling, thinly laminated   | 108.5 |

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



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| BECHTEL PROJECT NO.: 25352                          |               |                          |       | COUNTY Victoria                  |                              |                   |    | GEOLOGIST C. Gandy                |    |           |              |     |     |                                                                                                                                                                                                                                                            |  |
|-----------------------------------------------------|---------------|--------------------------|-------|----------------------------------|------------------------------|-------------------|----|-----------------------------------|----|-----------|--------------|-----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| SITE DESCRIPTION Exelon COL Project (Victoria Site) |               |                          |       | MACTEC PROJECT NO.: 6468-07-1777 |                              |                   |    | GROUND WATER (ft)                 |    |           |              |     |     |                                                                                                                                                                                                                                                            |  |
| BORING NO. B-2150                                   |               | DRILL METHOD: Mud Rotary |       | SAMPLE METHODS: SPT              |                              |                   |    | 0 HR. ND                          |    | 24 HR. ND |              |     |     |                                                                                                                                                                                                                                                            |  |
| GROUND SURFACE ELEV. 80.4 ft (NAVD88)               |               | NORTHING 13,412,560      |       | US ft (NAD83)                    |                              | EASTING 2,599,591 |    | US ft (NAD83)                     |    |           |              |     |     |                                                                                                                                                                                                                                                            |  |
| TOTAL DEPTH 150.0 ft                                |               | DRILL MACHINE CME-55 LC  |       | DRILLER: D. White/O. Smith       |                              |                   |    | HAMMER (ID) 140 lb. Auto (MEC 02) |    |           |              |     |     |                                                                                                                                                                                                                                                            |  |
| DATE STARTED 11/8/07                                |               | COMPLETED 11/9/07        |       | CASING DEPTH: N/A                |                              |                   |    | BITS USED: 2 7/8" Wing Bit        |    |           |              |     |     |                                                                                                                                                                                                                                                            |  |
| ELEV.<br>(ft)                                       | DEPTH<br>(ft) | BLOW COUNT               |       |                                  | BLOWS PER FOOT               |                   |    |                                   |    |           | SAMP.<br>NO. | MOI | LOG | SOIL AND ROCK DESCRIPTION                                                                                                                                                                                                                                  |  |
|                                                     |               | 0.5ft                    | 0.5ft | 0.5ft                            | 0                            | 20                | 40 | 60                                | 80 | 100       |              |     |     |                                                                                                                                                                                                                                                            |  |
| -31.8                                               |               |                          |       |                                  | Continued from previous page |                   |    |                                   |    |           |              |     |     |                                                                                                                                                                                                                                                            |  |
| -38.1                                               | 118.5         | 8                        | 10    | 11                               | ●21                          |                   |    |                                   |    |           | SS-25        |     |     | FAT CLAY with sand (CH), very pale brown (10YR7/4), very stiff, moist, little sand, weak HCl reaction, trace iron staining, trace mottling, thinly laminated (continued)                                                                                   |  |
| -48.1                                               | 128.5         | 7                        | 7     | 18                               | ●25                          |                   |    |                                   |    |           | SS-26        |     |     | 118.5ft: light gray (10YR7/2), few sand, organics, trace carbonate nodules                                                                                                                                                                                 |  |
| -58.1                                               | 138.5         | 6                        | 12    | 13                               | ●25                          |                   |    |                                   |    |           | SS-27A/B     |     |     | 128.5ft: light gray (5Y7/1), little sand, 2 sand seams each 0.3'-thick                                                                                                                                                                                     |  |
| -68.1                                               | 148.5         | 8                        | 20    | 30                               | ●50                          |                   |    |                                   |    |           | SS-28        |     |     | -58.1 138.5<br>-58.8 139.2<br>Clayey SAND (SC), very pale brown (10YR8/2), very firm, wet, some fines, strong HCl reaction<br>FAT CLAY (CH), very pale brown (10YR8/2), very stiff, moist, few sand, strong HCl reaction, iron staining, carbonate nodules |  |
|                                                     |               |                          |       |                                  |                              |                   |    |                                   |    |           |              |     |     | -68.1 148.5<br>-69.6 150.0<br>POORLY GRADED SAND with silt (SP-SM), very pale brown (10YR7/3), dense, wet, few fines, no HCl reaction<br>Boring Terminated at Elevation -69.6 ft                                                                           |  |

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/12/08



## GEOTECHNICAL BORING LOG

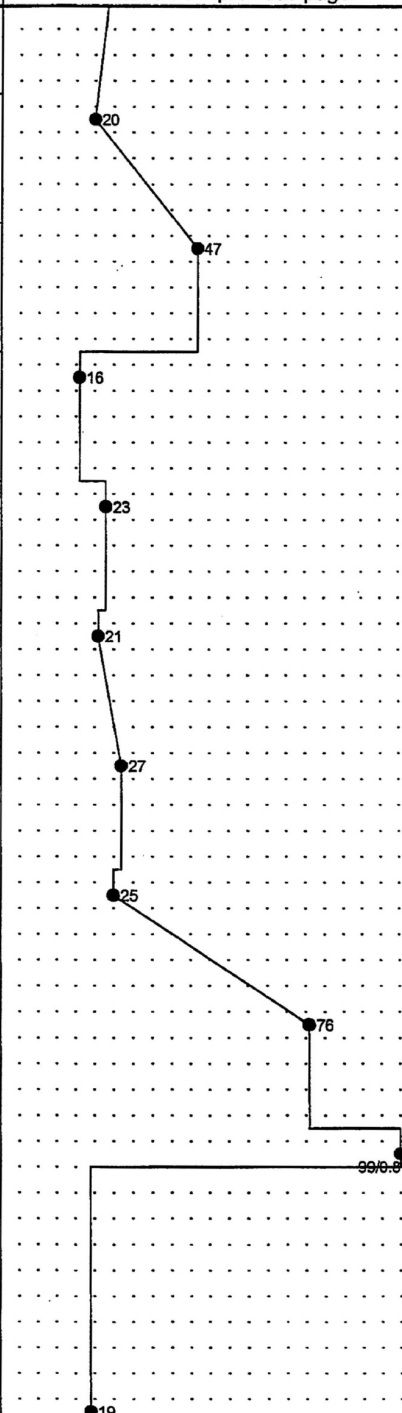
Prepared By WSD Date 6-16-08Checked By KAW Date 7-10-08

SHEET 1 OF 4

|                                       |               |                          |       |                 |                |                                  |    |                    |    |                                   |     |                   |                                                                                                                                                             |      |  |
|---------------------------------------|---------------|--------------------------|-------|-----------------|----------------|----------------------------------|----|--------------------|----|-----------------------------------|-----|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|
| BECHTEL PROJECT NO.: 25352            |               |                          |       | COUNTY Victoria |                |                                  |    | GEOLOGIST J. Liles |    |                                   |     |                   |                                                                                                                                                             |      |  |
| SITE DESCRIPTION Exelon COL Project   |               |                          |       |                 |                | MACTEC PROJECT NO.: 6468-07-1777 |    |                    |    |                                   |     | GROUND WATER (ft) |                                                                                                                                                             |      |  |
| BORING NO. B-2151                     |               | DRILL METHOD: Mud Rotary |       |                 |                | SAMPLE METHODS: SPT              |    |                    |    | 0 HR. ND                          |     |                   |                                                                                                                                                             |      |  |
| GROUND SURFACE ELEV. 80.4 ft (NAVD88) |               | NORTHING 13,412,637      |       | US ft (NAD83)   |                | EASTING 2,599,654                |    | US ft (NAD83)      |    | 24 HR. ND                         |     |                   |                                                                                                                                                             |      |  |
| TOTAL DEPTH 200.0 ft                  |               | DRILL MACHINE CME-550    |       |                 |                | DRILLER: L. Carter/C. Harden     |    |                    |    | HAMMER (ID) 140 lb. Auto (MEC 03) |     |                   |                                                                                                                                                             |      |  |
| DATE STARTED 12/13/07                 |               | COMPLETED 12/14/07       |       |                 |                | CASING DEPTH: 3.5 ft             |    |                    |    | BITS USED: 2 15/16" Drag Bit      |     |                   |                                                                                                                                                             |      |  |
| ELEV.<br>(ft)                         | DEPTH<br>(ft) | BLOW COUNT               |       |                 | BLOWS PER FOOT |                                  |    |                    |    | SAMP.<br>NO.                      | MOI | LOG               | SOIL AND ROCK DESCRIPTION                                                                                                                                   |      |  |
|                                       |               | 0.5ft                    | 0.5ft | 0.5ft           | 0              | 20                               | 40 | 60                 | 80 |                                   |     |                   |                                                                                                                                                             | 100  |  |
| 80.4                                  |               |                          |       |                 | Ground Surface |                                  |    |                    |    |                                   |     |                   |                                                                                                                                                             |      |  |
| 80.4                                  | 0.0           | 3                        | 5     | 8               |                |                                  |    |                    |    | SS-1                              |     | 80.4              | FAT CLAY with sand (CH), very dark gray (2.5Y3/1), stiff, moist, fine to medium grained sand, no HCl reaction, organics                                     | 0.0  |  |
| 76.9                                  | 3.5           | 14                       | 16    | 15              |                |                                  |    |                    |    | SS-2                              |     | 76.9              | Sandy LEAN CLAY (CL), dark gray (2.5Y4/1), hard, fine to coarse grained sand, fine gravel, strong HCl reaction, carbonate nodules                           | 3.5  |  |
| 74.4                                  | 6.0           | 4                        | 6     | 7               |                |                                  |    |                    |    | SS-3                              |     | 74.4              | FAT CLAY with sand (CH), light brownish gray (2.5Y6/2), stiff, moist, fine to medium grained sand, strong HCl reaction, organics                            | 6.0  |  |
| 71.9                                  | 8.5           | 10                       | 10    | 13              |                |                                  |    |                    |    | SS-4                              |     | 71.9              | LEAN CLAY with sand (CL), light brown gray (2.5Y6/2), very stiff, wet, fine to medium grained sand                                                          | 8.5  |  |
| 69.4                                  | 11.0          | 7                        | 11    | 13              |                |                                  |    |                    |    | SS-5                              |     | 69.4              | Sandy LEAN CLAY (CL), light brownish gray, very stiff, moist, fine to medium grained sand, strong HCl reaction                                              | 11.0 |  |
| 66.9                                  | 13.5          | 10                       | 13    | 17              |                |                                  |    |                    |    | SS-6                              |     |                   |                                                                                                                                                             |      |  |
| 60.9                                  | 19.5          | 7                        | 7     | 12              |                |                                  |    |                    |    | SS-7                              |     | 60.9              | FAT CLAY (CH), light gray (2.5Y7/1), very stiff, moist, fine to medium grained sand, no HCl reaction, few carbonate nodules, organics                       | 19.5 |  |
| 55.9                                  | 24.5          | 6                        | 6     | 9               |                |                                  |    |                    |    | SS-8                              |     |                   | 24.5ft: brownish yellow (10YR6/6), stiff, moist, strong HCl reaction                                                                                        |      |  |
| 50.9                                  | 29.5          | 7                        | 9     | 11              |                |                                  |    |                    |    | SS-9                              |     |                   | 29.5ft: light yellowish brown (10YR6/4), very stiff, organics                                                                                               |      |  |
| 45.9                                  | 34.5          | 6                        | 8     | 10              |                |                                  |    |                    |    | SS-10                             |     |                   | 34.5ft: strong brown (7.5YR5/6)                                                                                                                             |      |  |
| 40.9                                  | 39.5          | 5                        | 6     | 9               |                |                                  |    |                    |    | SS-11                             |     |                   | 39.5ft: stiff, organics                                                                                                                                     |      |  |
| 35.9                                  | 44.5          | 5                        | 7     | 9               |                |                                  |    |                    |    | SS-12                             |     |                   | 44.5ft: light yellowish brown (10YR6/4 to 2.5Y6/3), very stiff                                                                                              |      |  |
| 30.9                                  | 49.5          | 7                        | 9     | 11              |                |                                  |    |                    |    | SS-13                             |     | 30.9              | LEAN CLAY with sand (CL), light yellowish brown (10YR6/4), very stiff, moist, fine to coarse grained sand, no HCl reaction, few carbonate nodules, organics | 49.5 |  |
| 25.9                                  | 54.5          | 13                       | 12    | 12              |                |                                  |    |                    |    | SS-14                             |     | 25.9              | Clayey SAND (SC), light gray (2.5Y7/1), very firm, moist, fine to medium grained sand                                                                       | 54.5 |  |



SHEET 2 OF 4

|                                       |               |                          |       |        |                                                                                    |    |                   |    |               |                                   |           |     |                                                                                                                                                     |  |  |
|---------------------------------------|---------------|--------------------------|-------|--------|------------------------------------------------------------------------------------|----|-------------------|----|---------------|-----------------------------------|-----------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| BECHTEL PROJECT NO.: 25352            |               |                          |       |        | COUNTY Victoria                                                                    |    |                   |    |               | GEOLOGIST J. Liles                |           |     |                                                                                                                                                     |  |  |
| SITE DESCRIPTION Exelon COL Project   |               |                          |       |        | MACTEC PROJECT NO.: 6468-07-1777                                                   |    |                   |    |               | GROUND WATER (ft)                 |           |     |                                                                                                                                                     |  |  |
| BORING NO. B-2151                     |               | DRILL METHOD: Mud Rotary |       |        | SAMPLE METHODS: SPT                                                                |    |                   |    |               | 0 HR. ND                          |           |     |                                                                                                                                                     |  |  |
| GROUND SURFACE ELEV. 80.4 ft (NAVD88) |               | NORTHING 13,412,637      |       |        | US ft (NAD83)                                                                      |    | EASTING 2,599,654 |    | US ft (NAD83) |                                   | 24 HR. ND |     |                                                                                                                                                     |  |  |
| TOTAL DEPTH 200.0 ft                  |               | DRILL MACHINE CME-550    |       |        | DRILLER: L. Carter/C. Harden                                                       |    |                   |    |               | HAMMER (ID) 140 lb. Auto (MEC 03) |           |     |                                                                                                                                                     |  |  |
| DATE STARTED 12/13/07                 |               | COMPLETED 12/14/07       |       |        | CASING DEPTH: 3.5 ft                                                               |    |                   |    |               | BITS USED: 2 15/16" Drag Bit      |           |     |                                                                                                                                                     |  |  |
| ELEV.<br>(ft)                         | DEPTH<br>(ft) | BLOW COUNT               |       |        | BLOWS PER FOOT                                                                     |    |                   |    |               | SAMP.<br>NO.                      | MOI       | LOG | SOIL AND ROCK DESCRIPTION                                                                                                                           |  |  |
|                                       |               | 0.5ft                    | 0.5ft | 0.5ft  | 0                                                                                  | 20 | 40                | 60 | 80            |                                   |           |     |                                                                                                                                                     |  |  |
| 24.3                                  |               |                          |       |        | Continued from previous page                                                       |    |                   |    |               |                                   |           |     |                                                                                                                                                     |  |  |
| 20.9                                  | 59.5          | 8                        | 10    | 10     |  |    |                   |    |               | SS-15                             |           |     | Clayey SAND (SC), light gray (2.5Y7/1), very firm, moist, fine to medium grained sand (continued)                                                   |  |  |
| 15.9                                  | 64.5          | 33                       | 25    | 22     |                                                                                    |    |                   |    |               | SS-16                             |           |     | 59.5ft: firm, fine to coarse grained sand, fine gravel, strong HCl reaction, organics                                                               |  |  |
| 10.9                                  | 69.5          | 6                        | 7     | 9      |                                                                                    |    |                   |    |               | SS-17                             |           |     | 64.5ft: light brownish gray (2.5Y6/2), dense, wet, carbonate nodules, no HCl reaction, (visual)                                                     |  |  |
| 5.9                                   | 74.5          | 7                        | 11    | 12     |                                                                                    |    |                   |    |               | SS-18                             |           |     | 10.9 FAT CLAY (CH), light brownish gray (10YR6/2), very stiff, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction, organics |  |  |
| 0.9                                   | 79.5          | 5                        | 10    | 11     |                                                                                    |    |                   |    |               | SS-19                             |           |     | 5.9 LEAN CLAY (CL), light brownish gray (10YR6/2), very stiff, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction           |  |  |
| -4.1                                  | 84.5          | 12                       | 13    | 14     |                                                                                    |    |                   |    |               | SS-20                             |           |     | 0.9 Clayey SAND (SC), light gray (2.5Y7/2), very firm, moist, fine to medium grained sand, no HCl reaction (visual)                                 |  |  |
| -9.1                                  | 89.5          | 6                        | 11    | 14     |                                                                                    |    |                   |    |               | SS-21                             |           |     | 84.5ft: light gray (2.5Y7/2), wet, fine to coarse grained sand, no HCl reaction (visual)                                                            |  |  |
| -14.1                                 | 94.5          | 41                       | 37    | 39     |                                                                                    |    |                   |    |               | SS-22                             |           |     | -9.1 Sandy LEAN CLAY (CL), light gray (2.5Y7/2), very stiff, moist, fine to medium grained sand, carbonate nodules, strong HCl reaction, organics   |  |  |
| -19.1                                 | 99.5          | 35                       | 49    | 50/0.3 |                                                                                    |    |                   |    |               | SS-23                             |           |     | 94.5ft: hard, fine to coarse grained sand (visual)                                                                                                  |  |  |
| -29.1                                 | 109.5         | 7                        | 8     | 11     |                                                                                    |    |                   |    |               | SS-24                             |           |     | -19.1 Clayey SAND (SC), pale yellow (2.5Y7/3), very dense, wet, fine to medium grained sand, strong HCl reaction (visual)                           |  |  |
|                                       |               |                          |       |        |                                                                                    |    |                   |    |               |                                   |           |     | -20.6 FAT CLAY (CH) light gray (5Y7/2), very stiff, moist, fine to medium grained sand, carbonate nodules, strong to no HCl reaction                |  |  |

EXELON COL BORE EXELON-2.DPJ EXELON COL.GDT 6/16/08





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| BECHTEL PROJECT NO.: 25352            |               |                          |       | COUNTY Victoria                  |                              |                   |    | GEOLOGIST J. Liles                |    |           |              |     |                                                                                                                                            |
|---------------------------------------|---------------|--------------------------|-------|----------------------------------|------------------------------|-------------------|----|-----------------------------------|----|-----------|--------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------|
| SITE DESCRIPTION Exelon COL Project   |               |                          |       | MACTEC PROJECT NO.: 6468-07-1777 |                              |                   |    | GROUND WATER (ft)                 |    |           |              |     |                                                                                                                                            |
| BORING NO. B-2151                     |               | DRILL METHOD: Mud Rotary |       | SAMPLE METHODS: SPT              |                              |                   |    | 0 HR. ND                          |    | 24 HR. ND |              |     |                                                                                                                                            |
| GROUND SURFACE ELEV. 80.4 ft (NAVD88) |               | NORTHING 13,412,637      |       | US ft (NAD83)                    |                              | EASTING 2,599,654 |    | US ft (NAD83)                     |    |           |              |     |                                                                                                                                            |
| TOTAL DEPTH 200.0 ft                  |               | DRILL MACHINE CME-550    |       | DRILLER: L. Carter/C. Harden     |                              |                   |    | HAMMER (ID) 140 lb. Auto (MEC 03) |    |           |              |     |                                                                                                                                            |
| DATE STARTED 12/13/07                 |               | COMPLETED 12/14/07       |       | CASING DEPTH: 3.5 ft             |                              |                   |    | BITS USED: 2 15/16" Drag Bit      |    |           |              |     |                                                                                                                                            |
| ELEV.<br>(ft)                         | DEPTH<br>(ft) | BLOW COUNT               |       |                                  | BLOWS PER FOOT               |                   |    |                                   |    |           | SAMP.<br>NO. | LOG | SOIL AND ROCK DESCRIPTION                                                                                                                  |
|                                       |               | 0.5ft                    | 0.5ft | 0.5ft                            | 0                            | 20                | 40 | 60                                | 80 | 100       |              |     |                                                                                                                                            |
| -31.8                                 |               |                          |       |                                  | Continued from previous page |                   |    |                                   |    |           |              |     |                                                                                                                                            |
| -39.1                                 | 119.5         | 8                        | 8     | 12                               | ●20                          |                   |    |                                   |    |           | SS-25        |     | FAT CLAY (CH) light gray (5Y7/2), very stiff, moist, fine to medium grained sand, carbonate nodules, strong to no HCl reaction (continued) |
| -44.1                                 | 124.5         |                          |       |                                  |                              |                   |    |                                   |    |           |              |     | LEAN CLAY with sand (CL), light gray (5Y7/2), hard, moist, fine to medium grained sand                                                     |
| -49.1                                 | 129.5         | 7                        | 8     | 25                               | ●33                          |                   |    |                                   |    |           | SS-26        |     | Field notes do not indicate that SS-26 was split into separate jars                                                                        |
| -59.2                                 | 139.6         | 19                       | 26    | 24                               | ●50                          |                   |    |                                   |    |           | SS-27        |     | POORLY GRADED SAND with clay (SP-SC), light gray (2.5Y7/2), dense, wet, fine to medium grained sand, no HCl reaction (visual)              |
| -69.2                                 | 149.6         | 6                        | 13    | 14                               | ●27                          |                   |    |                                   |    |           | SS-28        |     | 149.6ft: very firm, wet, fine gravel, carbonate nodules, strong HCl reaction, organics                                                     |
| -79.2                                 | 159.6         | 24                       | 34    | 38                               | ●72                          |                   |    |                                   |    |           | SS-29        |     | POORLY GRADED SAND (SP), light gray (10YR7/2), very dense, wet, fine grained, trace fines, no HCl reaction, trace ferrous flakes (visual)  |

EXELON COL BORE EXELON-2.GPJ EXELON COL.GDT 6/16/08