

**LEGEND:**

- EXISTING FENCE LINE
- EXISTING PERIMETER DITCH LIMITS
- FEEDER DITCH
- BLOW DOWN LINE
- PLANT PROPERTY LINE
- BL-18 ○ SHALLOW BLOW DOWN LINE SAMPLING LOCATION
- VB-3 ▲ VACUUM BREAKER LOCATION
- VB-3-7 ▲ VACUUM BREAKER SAMPLING LOCATION
- MW-105 ● SHALLOW MONITORING WELL LOCATION
- PW-5 ⊙ PRIVATE WELL LOCATION
- P-11 ○ SHALLOW TEMPORARY WELL LOCATION
- PSG-1 □ STAFF GAUGE LOCATION
- DS-6 ▲ DITCH SAMPLING LOCATION
- SW-2 ⊙ SURFACE WATER SAMPLING LOCATION
- RW-3 □ SHALLOW RECOVERY WELL LOCATION
- PW-6P ⊙ POND SAMPLING LOCATION

- [Stippled pattern] TRITIUM RESULTS 200,000 TO 250,000 (PICOCURRIES/LITER)
- [Darker stippled pattern] TRITIUM RESULTS 10,000 TO 200,000
- [Medium stippled pattern] TRITIUM RESULTS 60,000 TO 100,000
- [Light stippled pattern] TRITIUM RESULTS 40,000 TO 60,000
- [Very light stippled pattern] TRITIUM RESULTS 20,000 TO 40,000
- [Dotted pattern] TRITIUM RESULTS 10,000 TO 20,000
- [Horizontal lines pattern] TRITIUM RESULTS 5,000 TO 10,000
- [Vertical lines pattern] TRITIUM RESULTS 200 TO 5,000
- [White box] TRITIUM RESULTS 0 TO 200

**NOTE:**  
 BACKGROUND TRITIUM CONCENTRATION: 200 pCi/L  
 DRINKING WATER STANDARD FOR TRITIUM: 20,000 pCi/L  
 TRITIUM DATA FOR SAMPLES COLLECTED THROUGH  
 JANUARY 30, 2006. CONTOURS WERE GENERATED  
 USING LOG VALUES.

figure 5.9

**ESTIMATED TRITIUM RESULTS  
 SHALLOW GROUNDWATER ZONE  
 EXELON GENERATION BRAIDWOOD STATION  
 Braceville, Illinois**

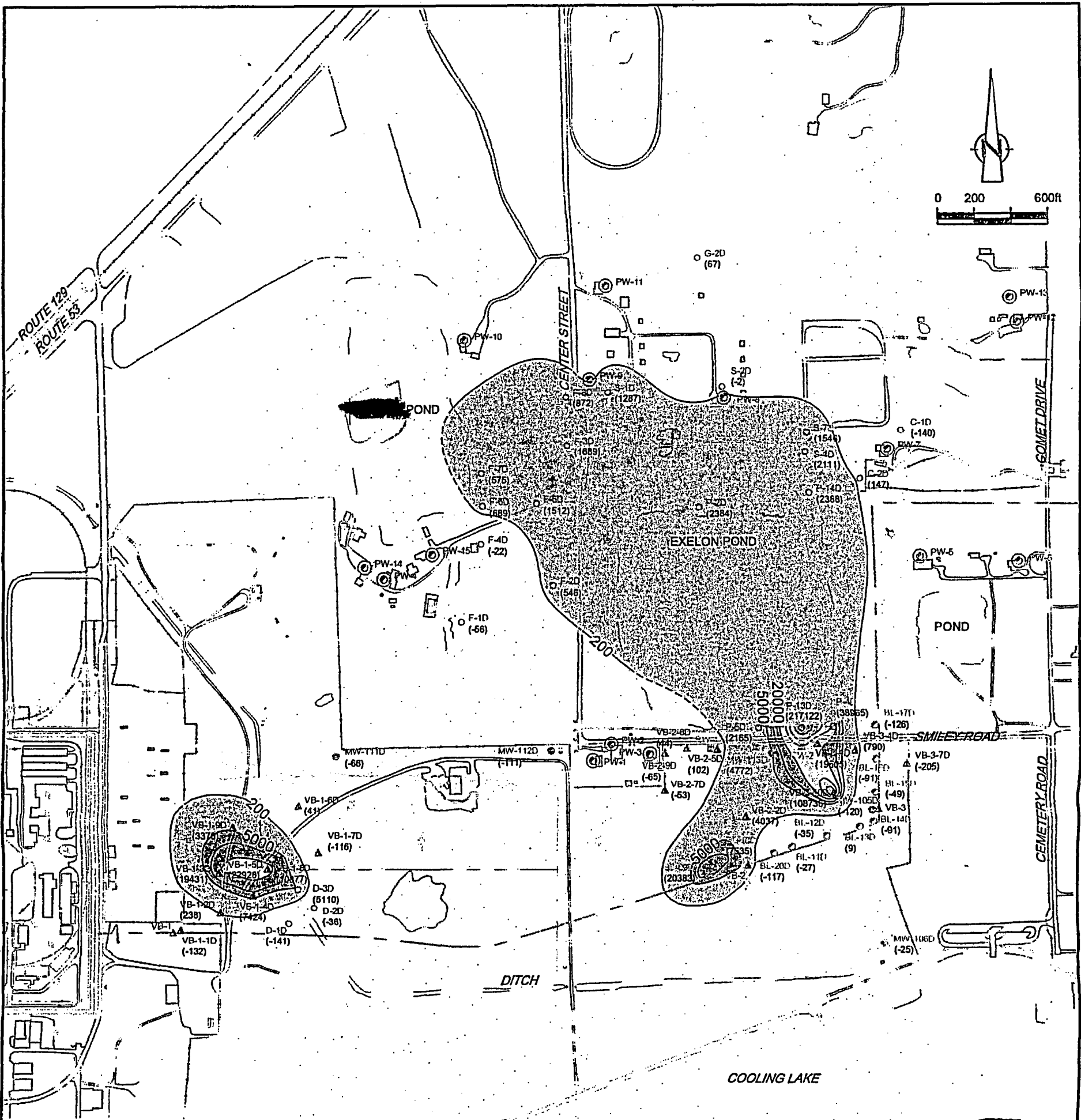
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16841-11(012)GN-WA022 FEB 07/2006  
 Information in this record was deleted  
 in accordance with the Freedom of Information  
 Act, exemptions  
 FOIA- 2006-15

G-124

Ex 6



**LEGEND:**

- EXISTING FENCE LINE
- - - EXISTING PERIMETER DITCH LIMITS
- - - FEEDER DITCH
- BLOW DOWN LINE
- PLANT PROPERTY LINE
- BI-17D ● DEEP BLOW DOWN LINE SAMPLING LOCATION
- VB-3 ▲ VACUUM BREAKER LOCATION
- VB-3-7D ▲ DEEP VACUUM BREAKER SAMPLING LOCATION
- MW-113D ● DEEP MONITORING WELL LOCATION
- PW-5 ● PRIVATE WELL LOCATION
- P-4D ○ DEEP TEMPORARY WELL LOCATION
- PW-6P ● POND SAMPLING LOCATION
- RW-2 ■ DEEP RECOVERY WELL LOCATION
- (2,484) TRITIUM RESULT IN GROUNDWATER
- 200— TRITIUM CONTOUR

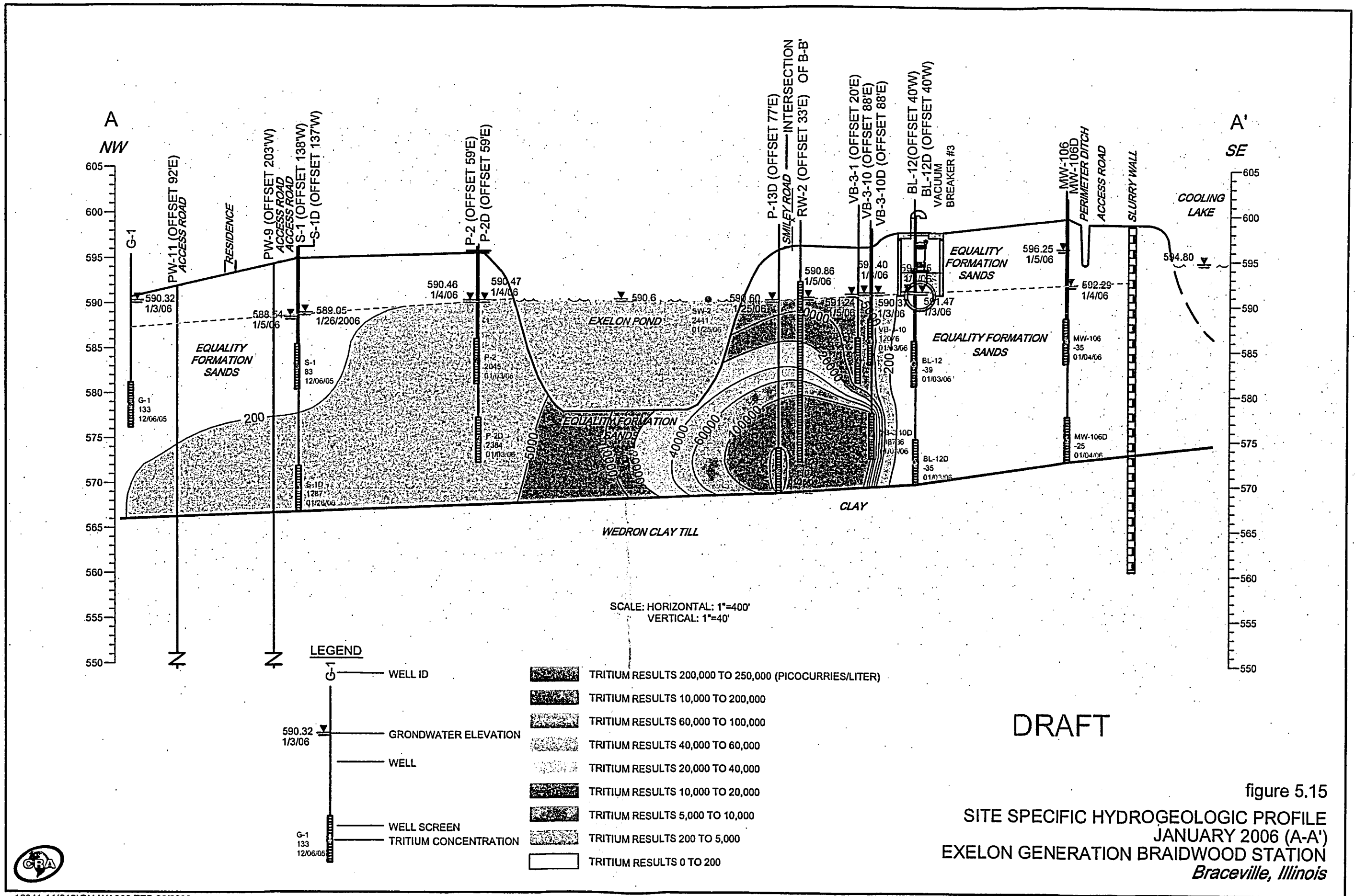
- TRITIUM RESULTS 200,000 TO 250,000 (PICOCURRIES/LITER)
- TRITIUM RESULTS 100,000 TO 200,000
- TRITIUM RESULTS 60,000 TO 100,000
- TRITIUM RESULTS 40,000 TO 60,000
- TRITIUM RESULTS 20,000 TO 40,000
- TRITIUM RESULTS 10,000 TO 20,000
- TRITIUM RESULTS 5,000 TO 10,000
- TRITIUM RESULTS 200 TO 5,000
- TRITIUM RESULTS 0 TO 200

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**NOTE:**  
 BACKGROUND TRITIUM CONCENTRATION: 200 PCIL  
 DRINKING WATER STANDARD FOR TRITIUM: 20,000 PCIL  
 TRITIUM DATA FOR SAMPLES COLLECTED THROUGH  
 JANUARY 30, 2006. CONTOURS WERE GENERATED  
 USING LOG VALUES.

**figure 5.10**  
**ESTIMATED TRITIUM RESULTS**  
**DEEP GROUNDWATER ZONE**  
**EXELON GENERATION BRAIDWOOD STATION**  
*Braceville, Illinois*

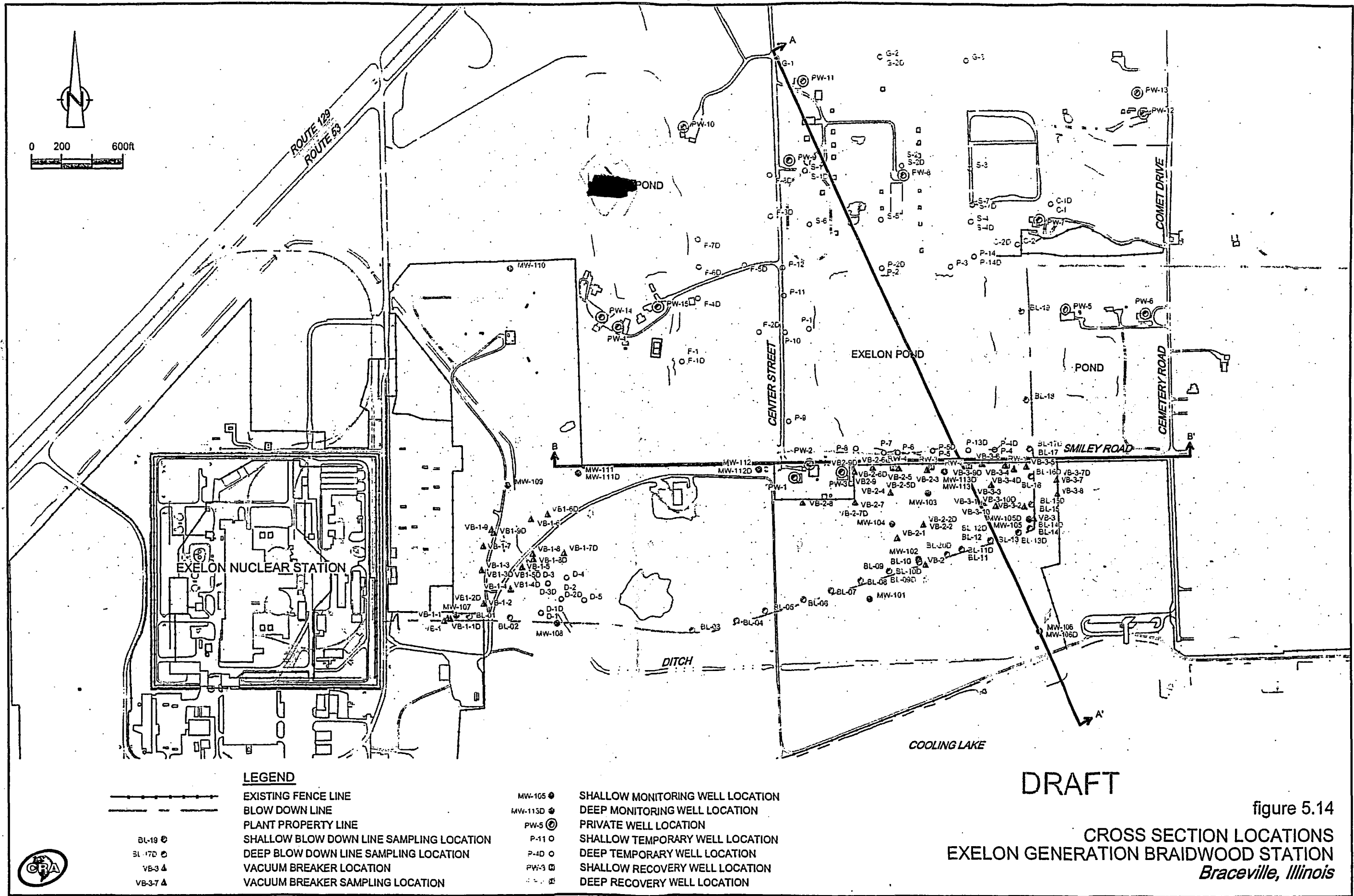




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figure 5.15  
 SITE SPECIFIC HYDROGEOLOGIC PROFILE  
 JANUARY 2006 (A-A')  
 EXELON GENERATION BRAIDWOOD STATION  
 Braceville, Illinois

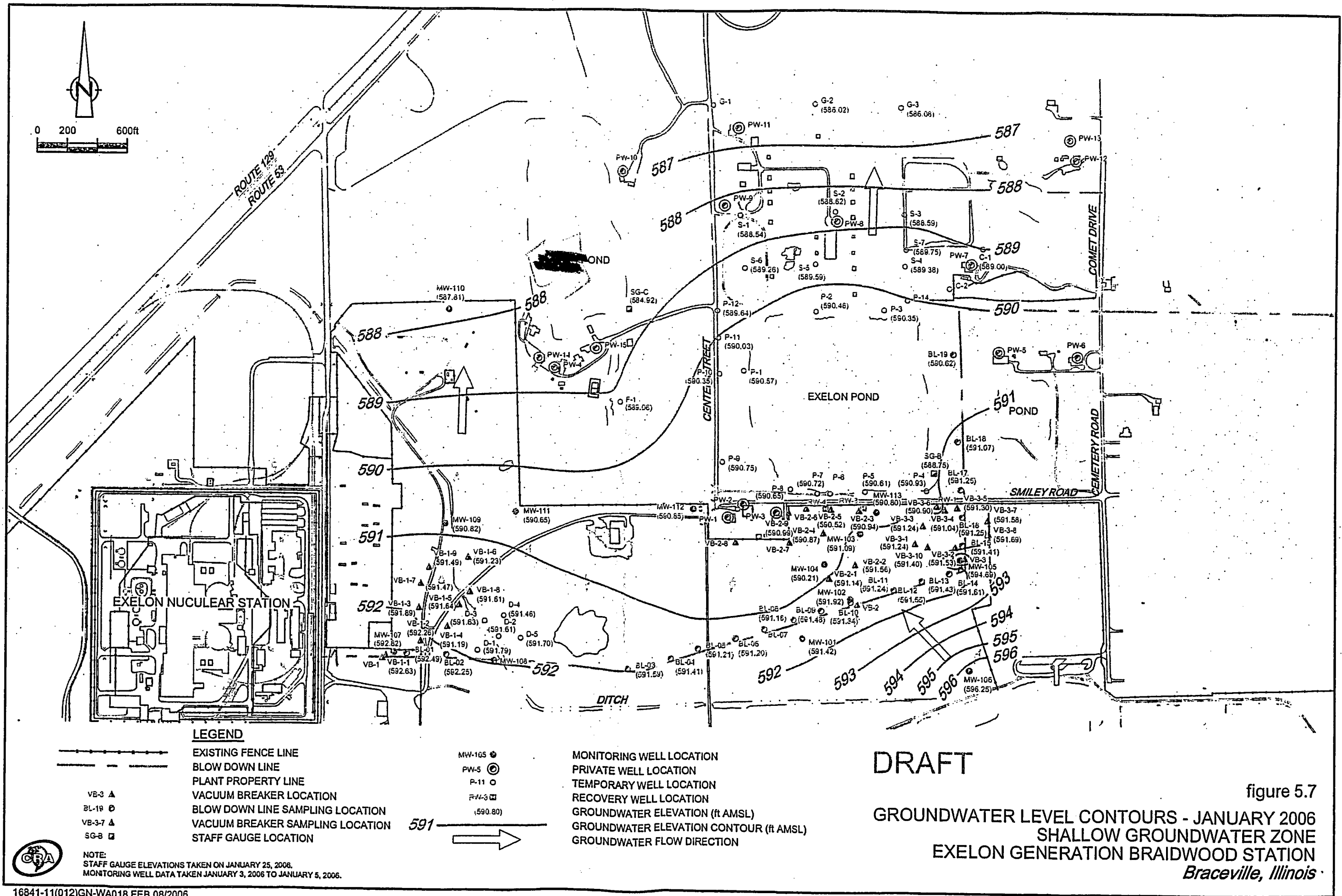




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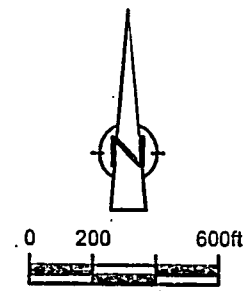
figure 5.14  
 CROSS SECTION LOCATIONS  
 EXELON GENERATION BRAIDWOOD STATION  
 Braceville, Illinois

<p>—●—●—●—●—●—●—</p> <p>—●—●—●—●—●—●—</p> <p>BL-19 ○</p> <p>SL-17D ○</p> <p>VB-3 ▲</p> <p>VB-3-7 ▲</p>	<p><b>LEGEND</b></p> <p>EXISTING FENCE LINE</p> <p>BLOW DOWN LINE</p> <p>PLANT PROPERTY LINE</p> <p>SHALLOW BLOW DOWN LINE SAMPLING LOCATION</p> <p>DEEP BLOW DOWN LINE SAMPLING LOCATION</p> <p>VACUUM BREAKER LOCATION</p> <p>VACUUM BREAKER SAMPLING LOCATION</p>	<p>MW-105 ●</p> <p>MW-115D ●</p> <p>PW-5 ⊙</p> <p>P-11 ○</p> <p>P-4D ○</p> <p>PW-3 ⊙</p> <p>—●—●—●—●—●—●—</p>	<p>SHALLOW MONITORING WELL LOCATION</p> <p>DEEP MONITORING WELL LOCATION</p> <p>PRIVATE WELL LOCATION</p> <p>SHALLOW TEMPORARY WELL LOCATION</p> <p>DEEP TEMPORARY WELL LOCATION</p> <p>SHALLOW RECOVERY WELL LOCATION</p> <p>DEEP RECOVERY WELL LOCATION</p>
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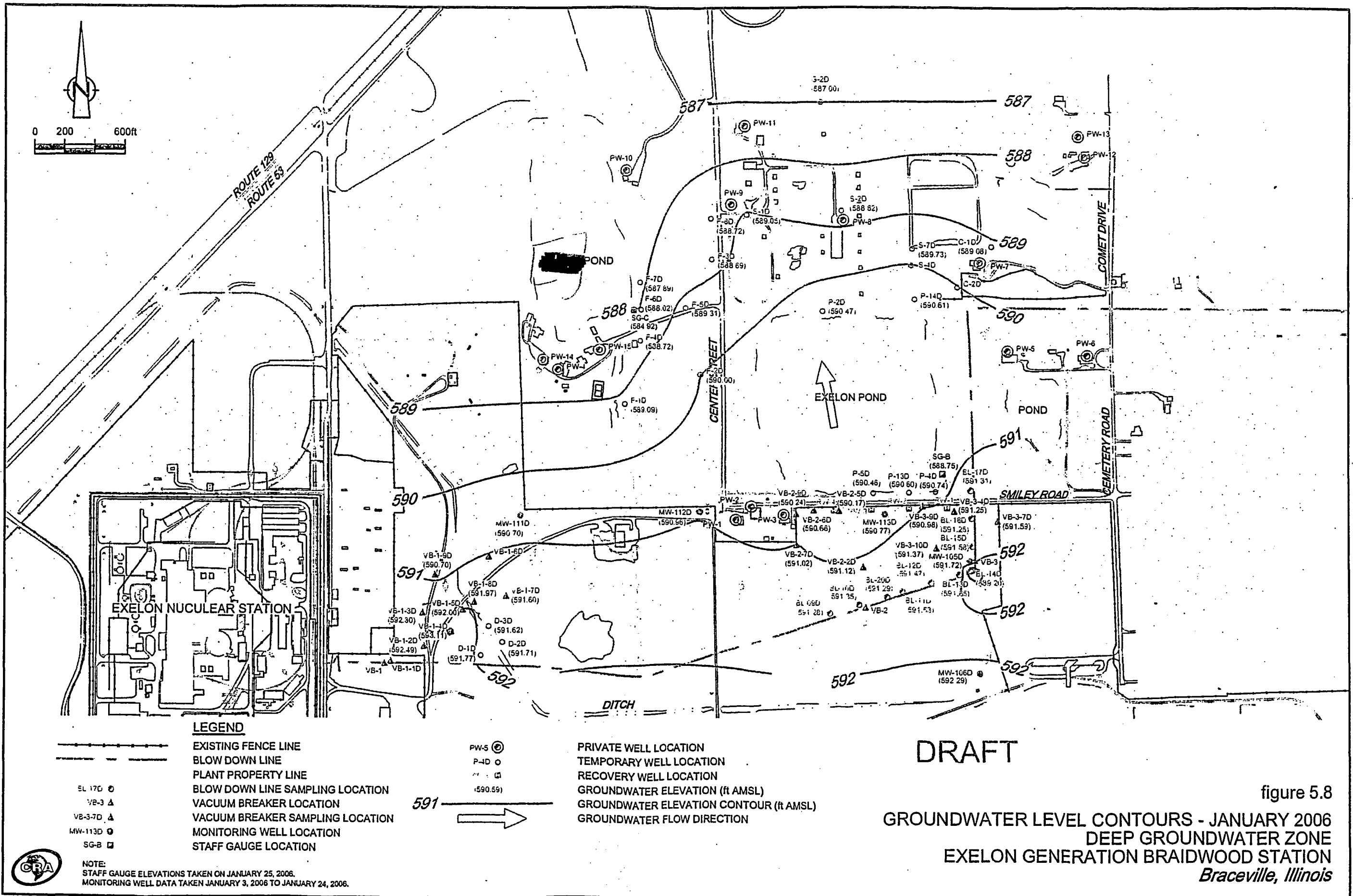
figure 5.7  
 GROUNDWATER LEVEL CONTOURS - JANUARY 2006  
 SHALLOW GROUNDWATER ZONE  
 EXELON GENERATION BRAIDWOOD STATION  
 Braceville, Illinois



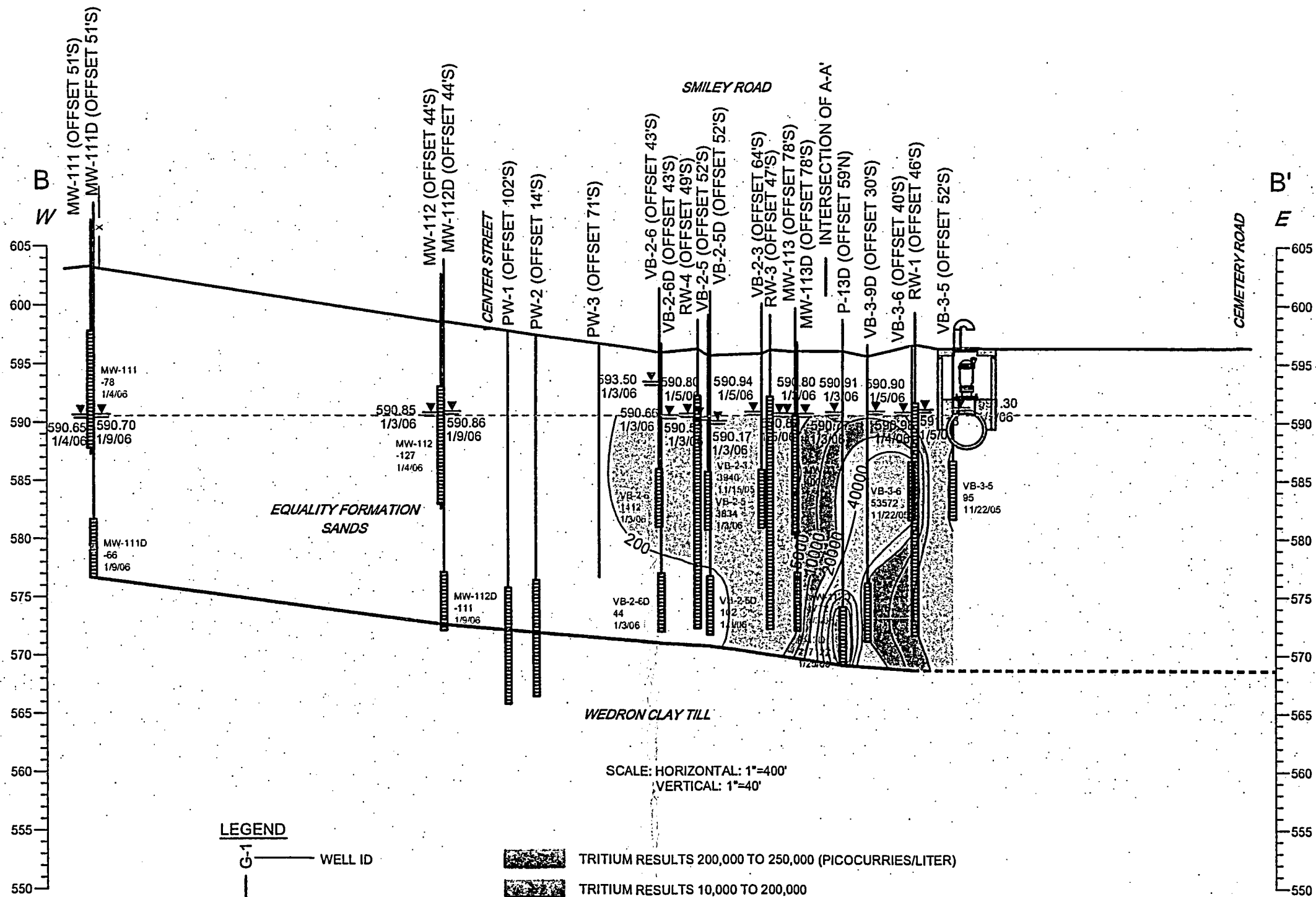
LEGEND

- EXISTING FENCE LINE
- - - BLOW DOWN LINE
- ▭ PLANT PROPERTY LINE
- ▲ VB-3 VACUUM BREAKER LOCATION
- BL-19 BLOW DOWN LINE SAMPLING LOCATION
- ▲ VB-3-7 VACUUM BREAKER SAMPLING LOCATION
- ▣ SG-8 STAFF GAUGE LOCATION
- MW-105 MONITORING WELL LOCATION
- PW-5 PRIVATE WELL LOCATION
- P-11 TEMPORARY WELL LOCATION
- ▣ RW-3 RECOVERY WELL LOCATION
- (590.80) GROUNDWATER ELEVATION (ft AMSL)
- GROUNDWATER FLOW DIRECTION

NOTE:  
 STAFF GAUGE ELEVATIONS TAKEN ON JANUARY 25, 2006.  
 MONITORING WELL DATA TAKEN JANUARY 3, 2006 TO JANUARY 5, 2006.







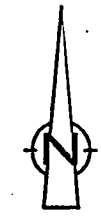
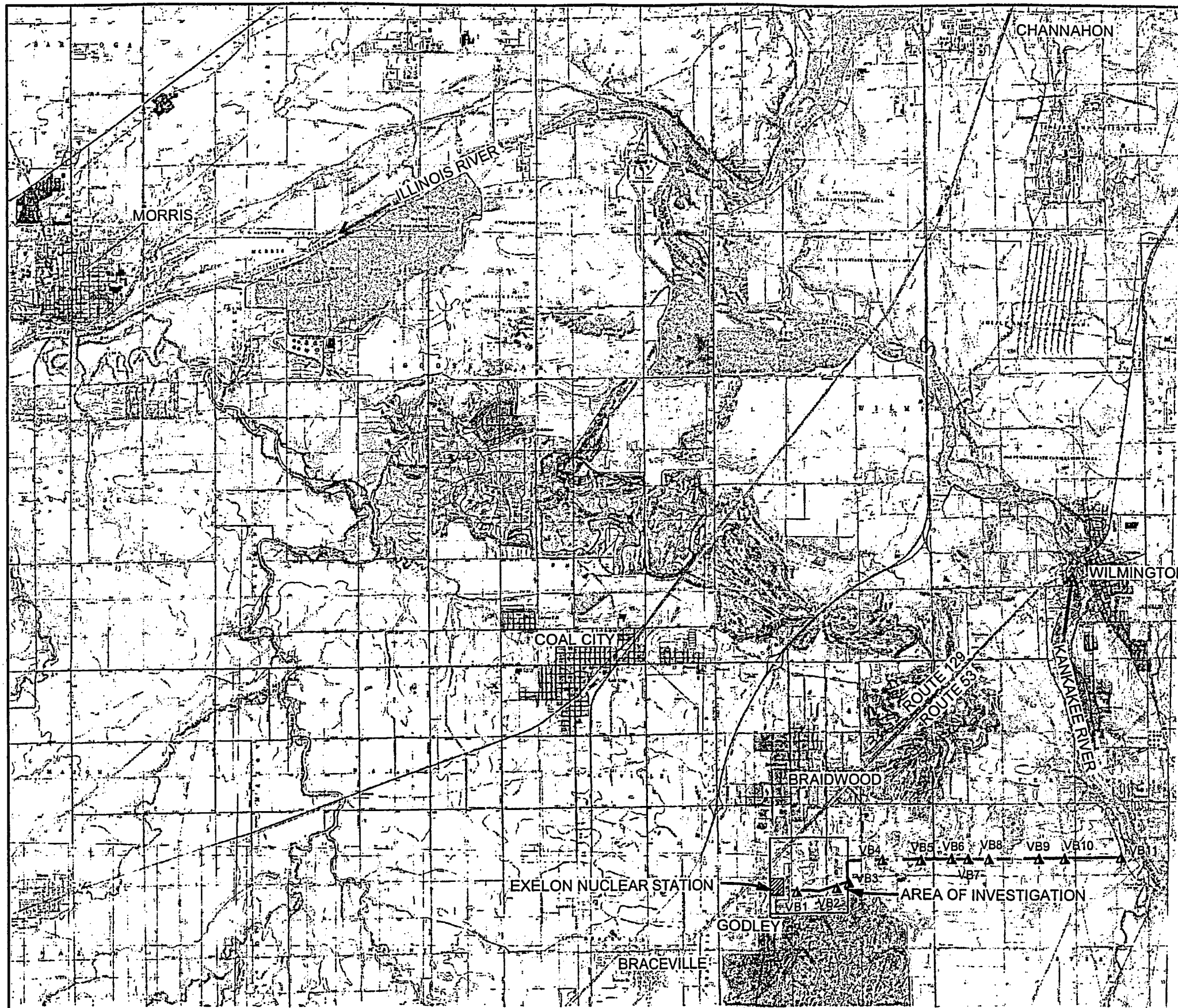
**LEGEND**

- WELL ID
- GRONDWATER ELEVATION
- WELL
- WELL SCREEN
- TRITIUM CONCENTRATION
- TRITIUM RESULTS 200,000 TO 250,000 (PICOCURRIES/LITER)
- TRITIUM RESULTS 10,000 TO 200,000
- TRITIUM RESULTS 60,000 TO 100,000
- TRITIUM RESULTS 40,000 TO 60,000
- TRITIUM RESULTS 20,000 TO 40,000
- TRITIUM RESULTS 10,000 TO 20,000
- TRITIUM RESULTS 5,000 TO 10,000
- TRITIUM RESULTS 200 TO 5,000
- TRITIUM RESULTS 0 TO 200

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figure 5.16  
 SITE SPECIFIC HYDROGEOLOGIC PROFILE  
 JANUARY 2006 (B-B')  
 EXELON GENERATION BRAIDWOOD STATION  
 Braceville, Illinois





**LEGEND:**

- VB-1 ▲ VACUUM BREAKER LOCATION AND IDENTIFIER
- BLOW DOWN LINE

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figure 1.1  
 SITE LOCATION MAP  
 EXELON GENERATION BRAIDWOOD STATION  
 Braceville, Illinois





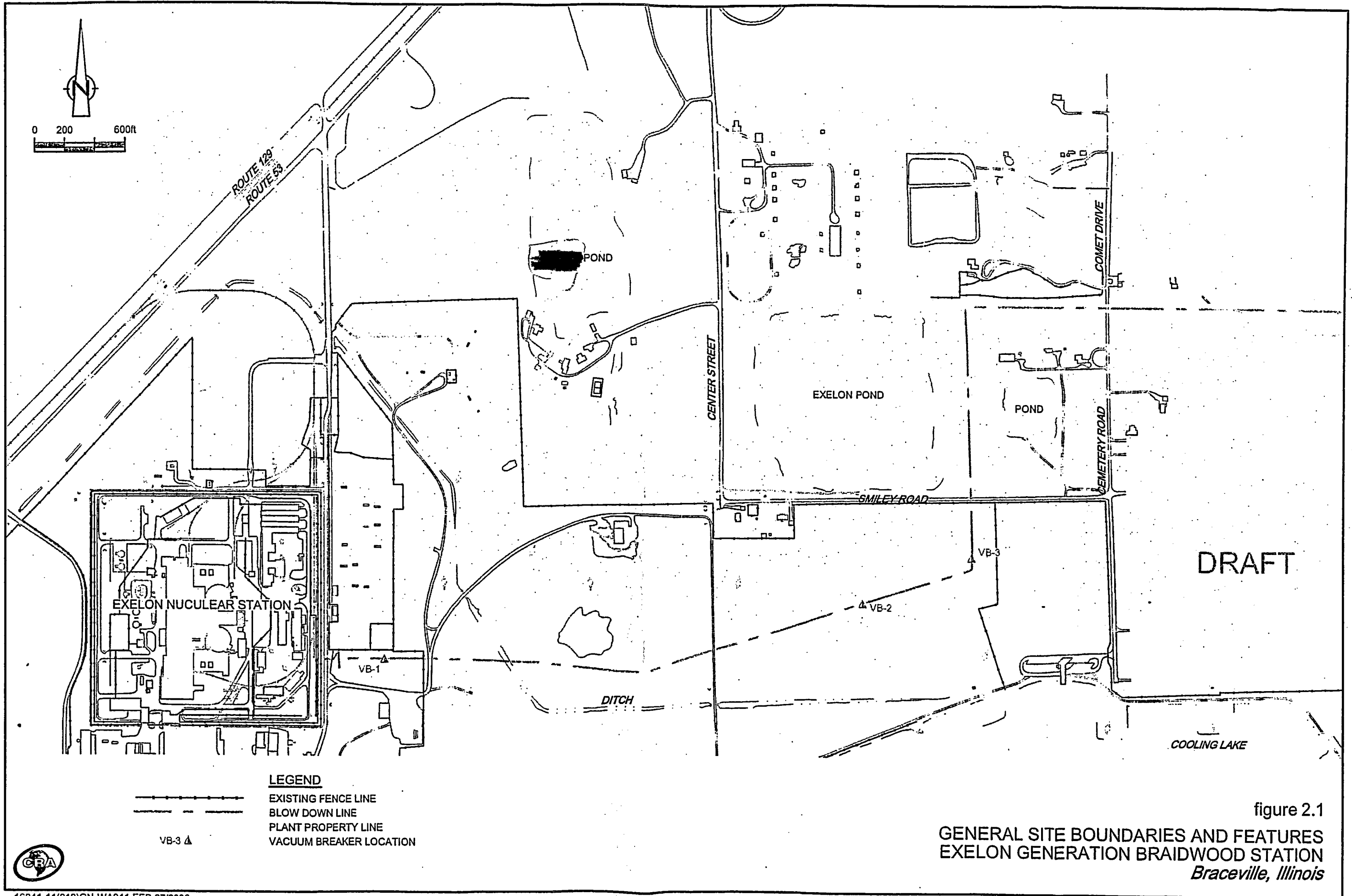


figure 2.1  
 GENERAL SITE BOUNDARIES AND FEATURES  
 EXELON GENERATION BRAIDWOOD STATION  
 Braceville, Illinois



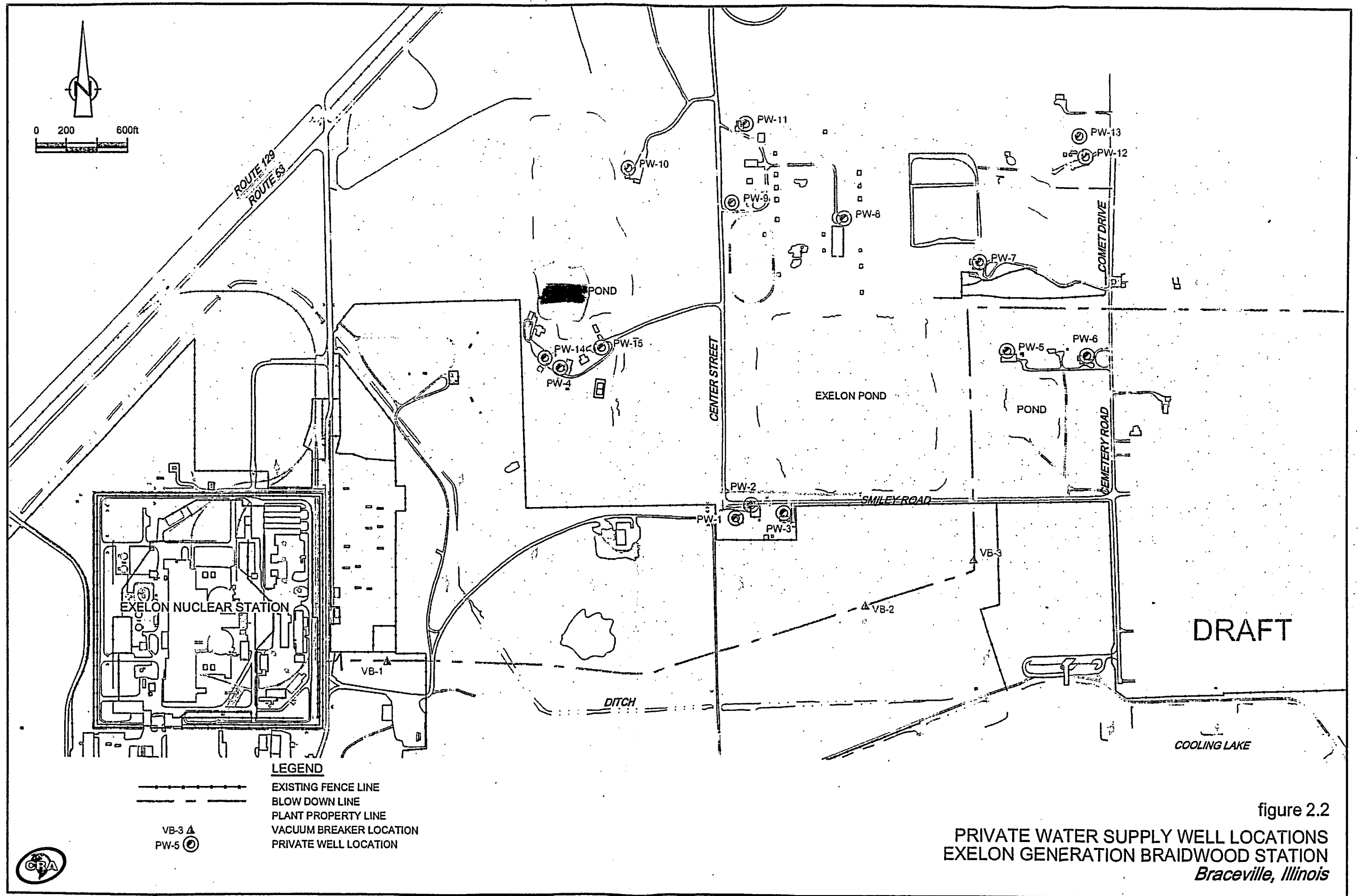


figure 2.2

PRIVATE WATER SUPPLY WELL LOCATIONS  
EXELON GENERATION BRAIDWOOD STATION  
*Braceville, Illinois*



Braidwood  
Station

0CW058

0CW136

0CW060

0CW138

0CW063

0CW139

0CW128

0CW069

0CW144

0CW075

0CW078

Blowdown  
Structure at River  
Screen House

Essex Rd.

