

**CROW BUTTE RESOURCES, INC.**

86 Crow Butte Road  
P.O. Box 169  
Crawford, Nebraska 69339-0169



(308) 665-2215  
(308) 665-2341 - FAX

*DOCKET- 04008943*

December 31, 2002

Mr. Michael Linder, Director  
Nebraska Department of Environmental Quality  
P.O. Box 98922  
Lincoln, NE 68509-8922

Subject: UIC Permit NE0122611  
IJ-13 Monitor Well Excursion

Dear Mr. Linder:

On December 26, 2002 during routine biweekly water sampling of monitor well IJ-13, the multiple parameter upper control limit (UCL) was exceeded for alkalinity and sulfate. As required by Footnote C.1. of Part II of UIC Permit NE0122611, a second sample was collected within 24 hours and analyzed for the five excursion indicator parameters. Although the results of the second sample were generally lower, two of the five parameters continued to exceed the appropriate UCLs. Based upon these results, IJ-13 was placed on excursion status.

Mr. Dave Miesbach of the Nebraska Department of Environmental Quality (NDEQ) was notified by telephone on December 27, 2002 of the initial exceedance. As required by Footnote C.1, laboratory results for the analysis of both samples are attached. In addition, graphs are attached for the samples that cover the period from January 2002 through December 2002.

IJ-13 is a baseline restoration well in Mine Unit 1 that was chosen to monitor the boundary of Mine Unit 3 following the NDEQ approval of restoration. The only current restoration activities in Mine Unit 3 adjacent to IJ-13 include treatment by ion exchange for removal of uranium. A minor hydrologic sink is maintained in Mine Unit 3 so there should be no flow toward Mine Unit 1.

In accordance with Footnote C.1 of the UIC permit, CBR will increase the sampling frequency for IJ-13 to weekly until three consecutive weekly samples are below the exceeded UCL parameters. CBR will then continue weekly sampling for an additional three weeks after this goal has been achieved. If the well has not exceeded the UCLs during the three-week period, it will be returned to normal status.

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**CROW BUTTE RESOURCES, INC.**



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Mr. Michael Linder  
December 31, 2002  
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If you have any questions or require additional information, please do not hesitate to call me at (308) 665-2215.

Sincerely,  
Crow Butte Resources, Inc.

A handwritten signature in black ink, appearing to read 'John Cash', written over a horizontal line.

John Cash  
Wellfield Supervisor/Safety Director

Enclosures: As Stated

cc: Mr. Steve Collings – CBR, Denver  
Mr. Dave Carlson – NDEQ, Chadron  
Mr. John Lusher – NRC, Rockville ADDRESSEE ONLY  
Mr. Dave Miesbach – NDEQ, Lincoln

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Crow Butte Project  
Monitor Well Laboratory Report

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Sample Date: 12-27-2002  
Analysis Date: 12-27-2002

Analyst: LG

| Well Number        | Sodium (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | Conductivity (UMHOS) | Alkalinity (mg/L) |
|--------------------|---------------|----------------|-----------------|----------------------|-------------------|
| CM6-6<br>Multiple  | 486           | 461            | 251             | 2412                 | 370               |
| Single             | 583           | 553            | 301             | 2894                 | 444               |
| CM6-7<br>Multiple  | 476           | 444            | 234             | 2352                 | 336               |
| Single             | 572           | 533            | 281             | 2822                 | 403               |
| CM6-8<br>Multiple  | 509           | 460            | 254             | 2436                 | 371               |
| Single             | 611           | 552            | 305             | 2923                 | 445               |
| CM6-9<br>Multiple  | 485           | 450            | 238             | 2388                 | 356               |
| Single             | 582           | 540            | 285             | 2866                 | 428               |
| CM6-10<br>Multiple | 509           | 458            | 272             | 2460                 | 358               |
| Single             | 611           | 550            | 327             | 2952                 | 429               |
| CM7-1<br>Multiple  | 440           | 402            | 199             | 2136                 | 342               |
| Single             | 528           | 482            | 239             | 2563                 | 410               |
| PR-8<br>Multiple   | 504           | 440            | 235             | 2388                 | 403               |
| Single             | 605           | 528            | 282             | 2866                 | 484               |
| PR-15<br>Multiple  | 492           | 428            | 223             | 2327                 | 370               |
| Single             | 590           | 514            | 268             | 2792                 | 444               |
| IJ-13<br>Multiple  | 481           | 445            | 187             | 2270                 | 390               |
| Single             | 492           | 442            | 232             | 2417                 | 346               |
|                    | 590           | 530            | 278             | 2900                 | 415               |

\* - Denotes 5% change from previous sample.

Crow Butte Project  
Monitor Well Laboratory Report

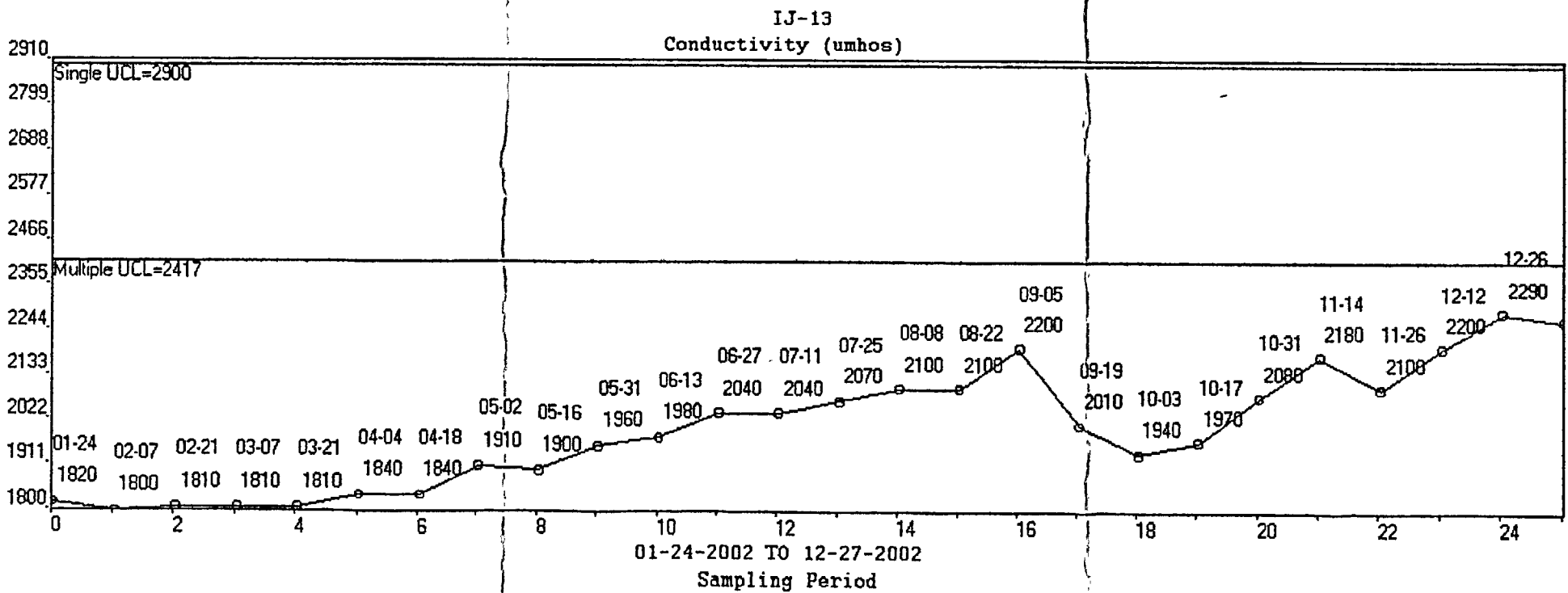
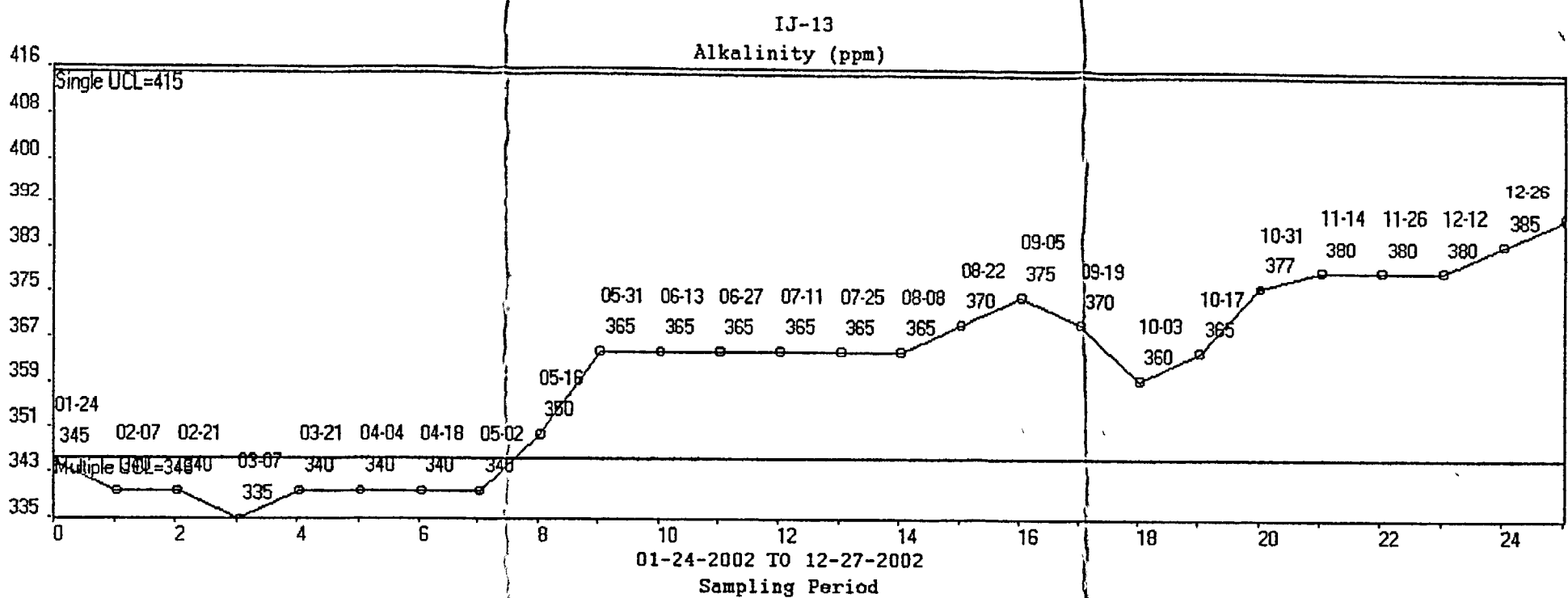
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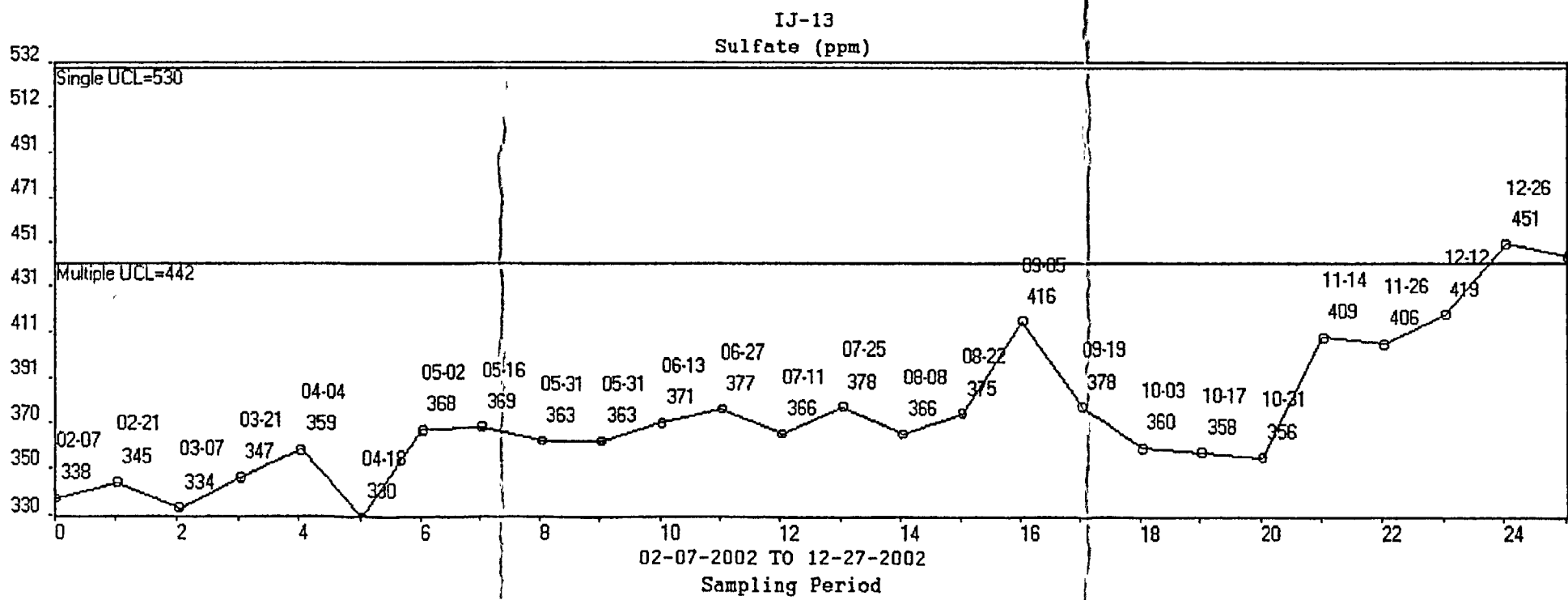
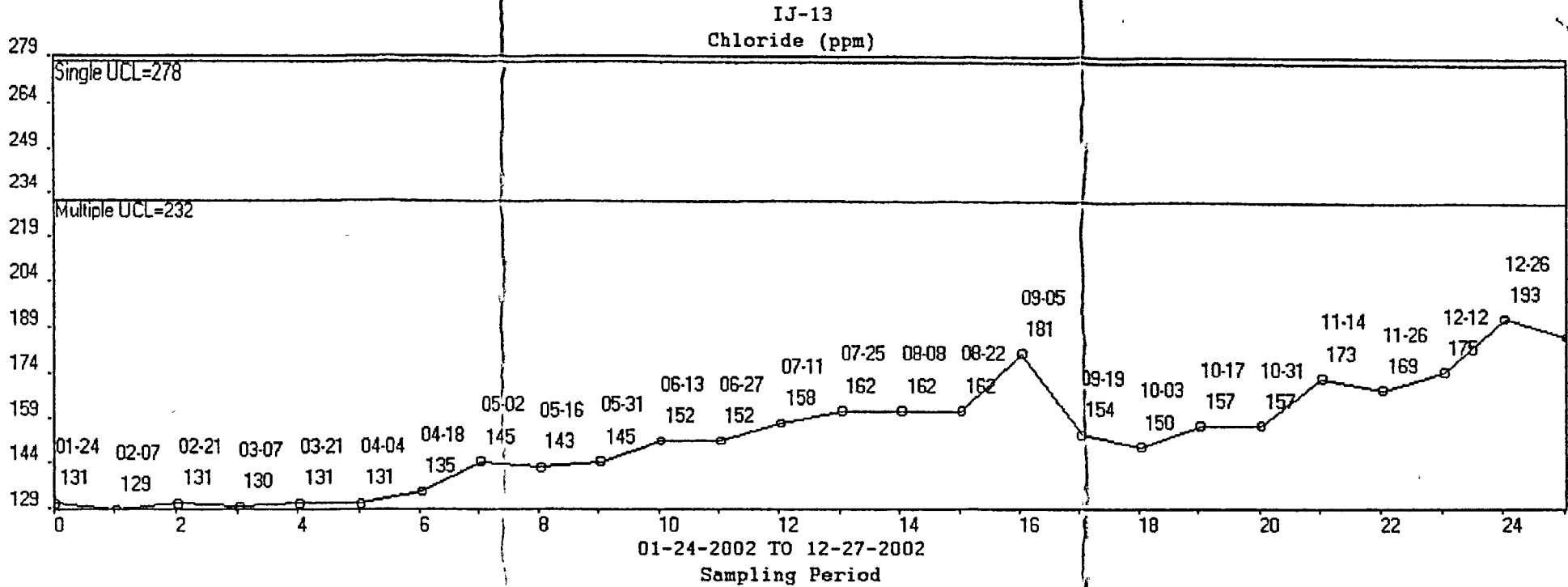
Sample Date: 12-26-2002  
Analysis Date: 12-27-2002

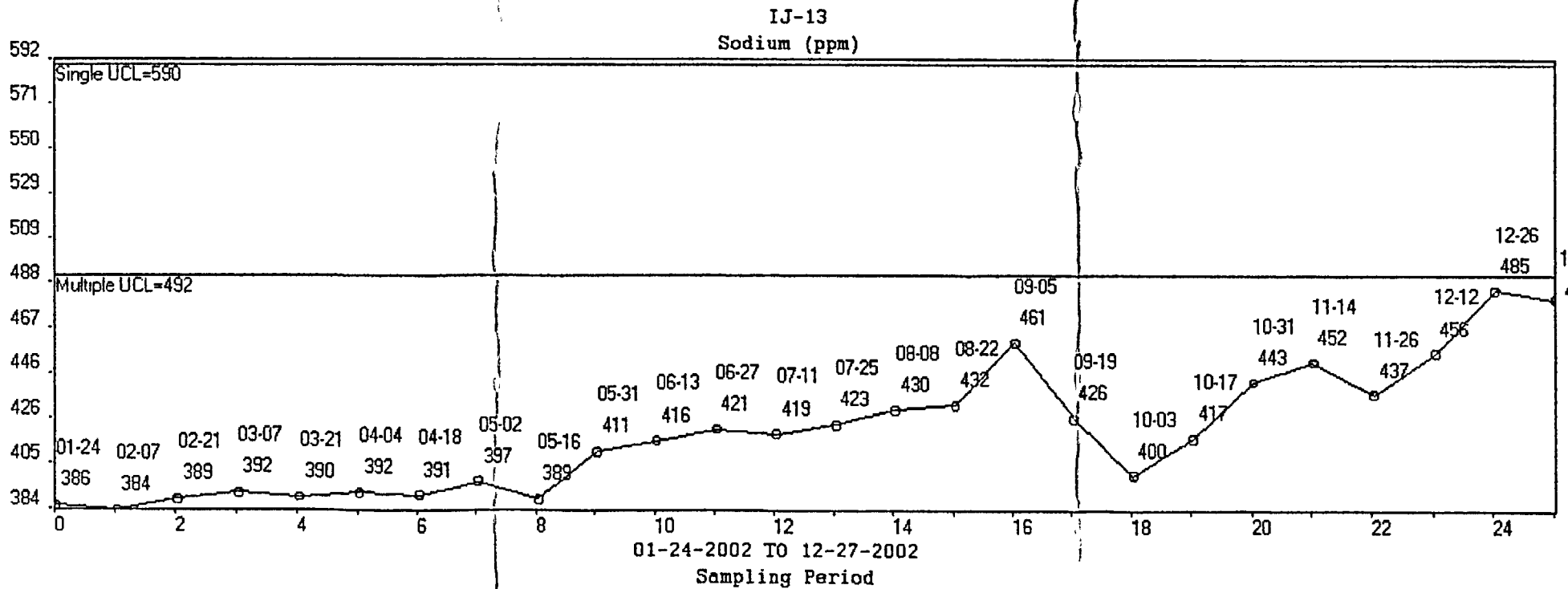
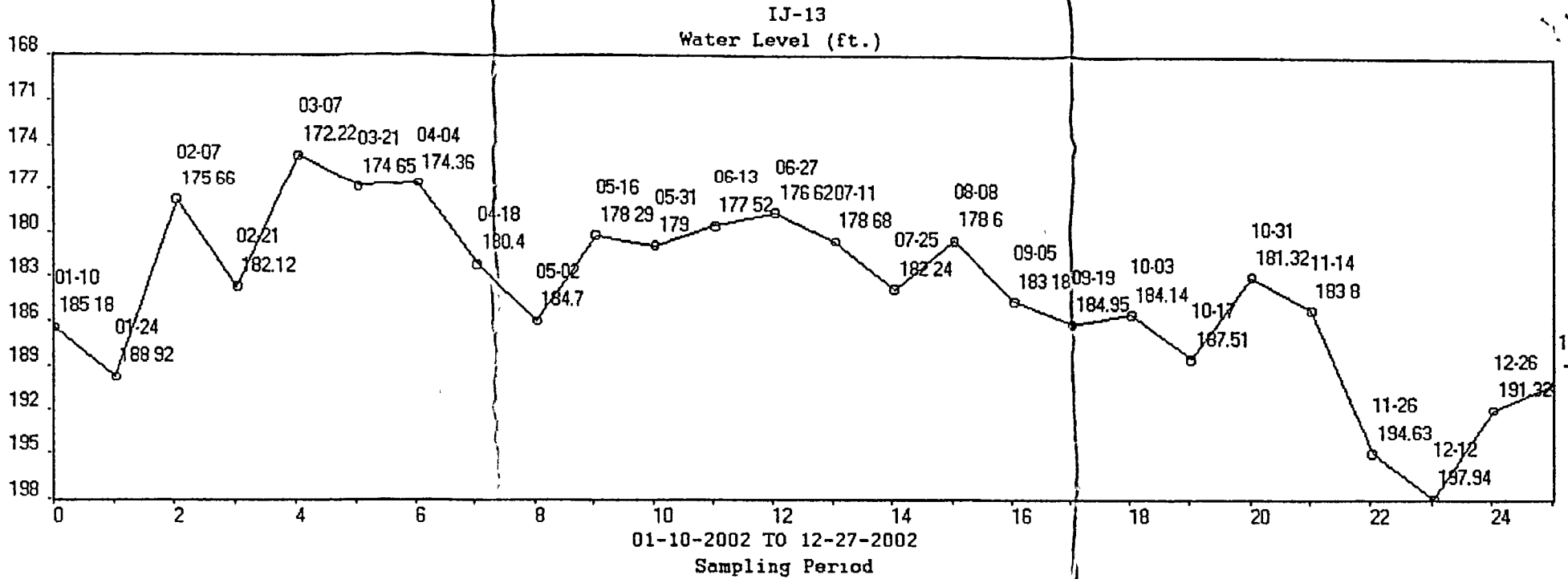
Analyst: lg-td

| Well Number | Sodium (mg/L) | Sulfate (mg/L) | Chloride (mg/L) | Conductivity (UMHOS) | Alkalinity (mg/L) |
|-------------|---------------|----------------|-----------------|----------------------|-------------------|
| CM6-6       | 410           | 366            | 181             | 1950                 | 300               |
| Multiple    | 486           | 461            | 251             | 2412                 | 370               |
| Single      | 583           | 553            | 301             | 2894                 | 444               |
| CM6-7       | 402           | 369            | 179             | 1940                 | 290               |
| Multiple    | 476           | 444            | 234             | 2352                 | 336               |
| Single      | 572           | 533            | 281             | 2822                 | 403               |
| CM6-8       | 410           | 377            | 181             | 1940                 | 290               |
| Multiple    | 509           | 460            | 254             | 2436                 | 371               |
| Single      | 611           | 552            | 305             | 2923                 | 445               |
| CM6-9       | 413           | 363            | 183             | 1960                 | 310               |
| Multiple    | 485           | 450            | 238             | 2388                 | 356               |
| Single      | 582           | 540            | 285             | 2866                 | 428               |
| CM6-10      | 411           | 383            | 181             | 1960                 | 283               |
| Multiple    | 509           | 458            | 272             | 2460                 | 358               |
| Single      | 611           | 550            | 327             | 2952                 | 429               |
| CM7-1       | 389           | 361*           | 172*            | 1980                 | 280               |
| Multiple    | 440           | 402            | 199             | 2136                 | 342               |
| Single      | 528           | 482            | 239             | 2563                 | 410               |
| PR-8        | 361*          | 285*           | 114*            | 1690*                | 370               |
| Multiple    | 504           | 440            | 235             | 2388                 | 403               |
| Single      | 605           | 528            | 282             | 2866                 | 484               |
| PR-15       | 283           | 225            | 94              | 1370                 | 315               |
| Multiple    | 492           | 428            | 223             | 2327                 | 370               |
| Single      | 590           | 514            | 268             | 2792                 | 444               |
| IJ-13       | 485*          | 451*           | 193*            | 2290                 | 385               |
| Multiple    | 492           | 442            | 232             | 2417                 | 346               |
| Single      | 590           | 530            | 278             | 2900                 | 415               |

\* - Denotes 5% change from previous sample.









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U.S. Nuclear Regulatory Commission  
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