Department of Energy
Ohio Field Office
Fernald Environmental Management Project
P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155

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SEP 23 2002

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V-SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0782-02

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

TRANSMITTAL OF THE AUGUST 2002 MONTHLY REPORT FOR IMPACTED MATERIAL PLACEMENT AT THE ON-SITE DISPOSAL FACILITY

Enclosed for your information is the August 2002 Monthly Report for Impacted Material Placement at the On-Site Disposal Facility (OSDF). The following information is included:

- Air monitoring sampling data for August 2002 readings from the OSDF and OSDF Material Transfer Area (OMTA);
- Leachate Conveyance System and Leak Detection System (LDS) data for cell-specific uranium concentrations through the month of August;
- OSDF Cells 1 and 2 LDS weekly accumulation rate versus cumulative impacted material placement volume graph through the month of August.
- Placement graphs for:
  - August Category 1 soil placement versus projected placement in-place cubic yards (icy)
  - August debris placement versus projected placement (icy)
  - August total soil and debris placement versus projected placement (icy)

- OSDF Cross Sections - Selected cross sections looking north and west showing placement progress.

Summary

Approximately 170,200 icy of impacted material have been placed through August 2002. This quantity is based upon survey data.

Cell 2 is at approximately 92 percent of its impacted material storage capacity. Cell 3 has reached approximately 47 percent of its impacted material storage capacity.

Other activities within the cells included continuing placement of select material on the Cell 2 eastside slope in accordance with the Impacted Material Placement Plan (IMPP). The enclosed cross sections show the progress made since August 2002.

If you have any questions or need further information, please contact Arthur Murphy at (513) 648-3132.

Sincerely,

Johnny Reising

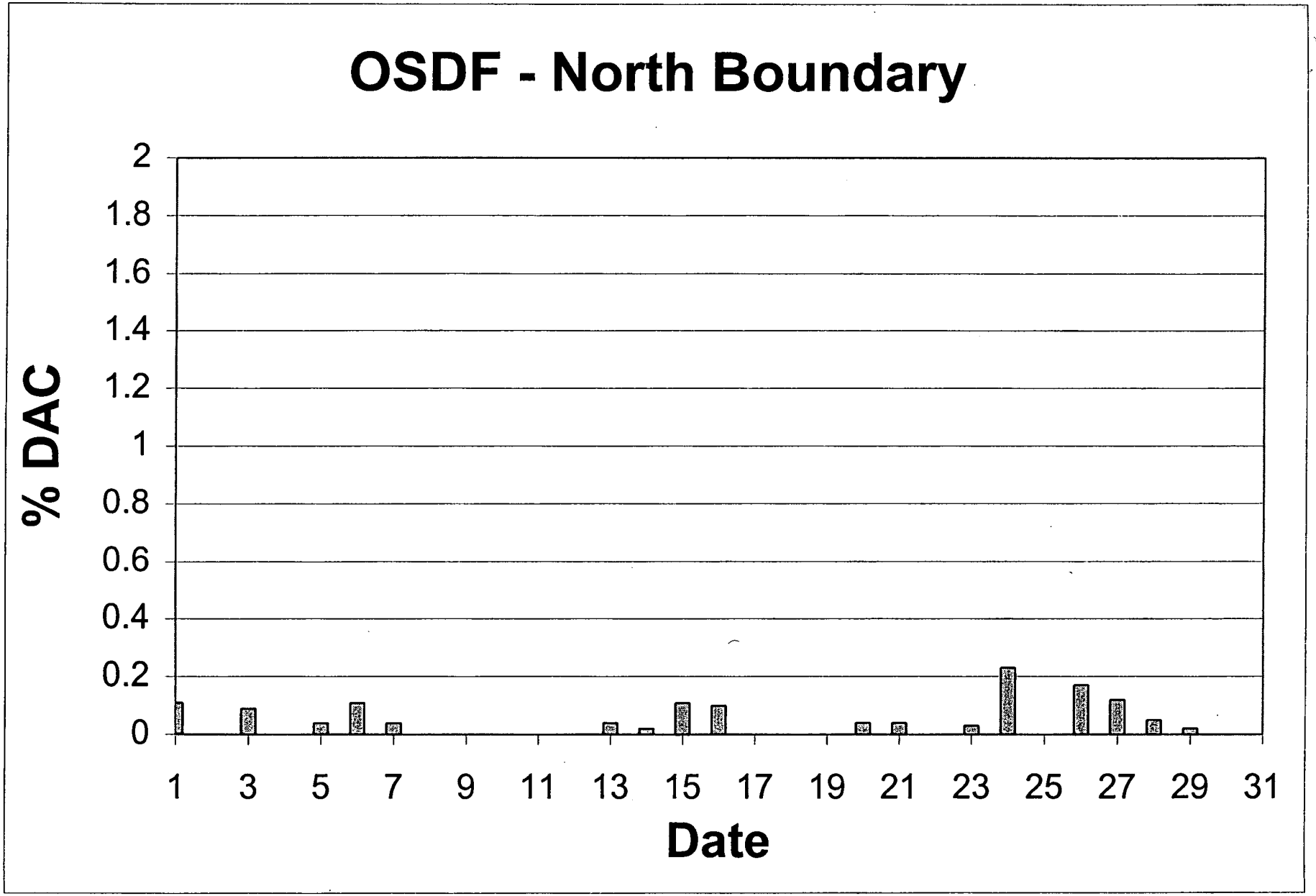
Johnny W. Reising
Fernald Remedial Action
Project Manager

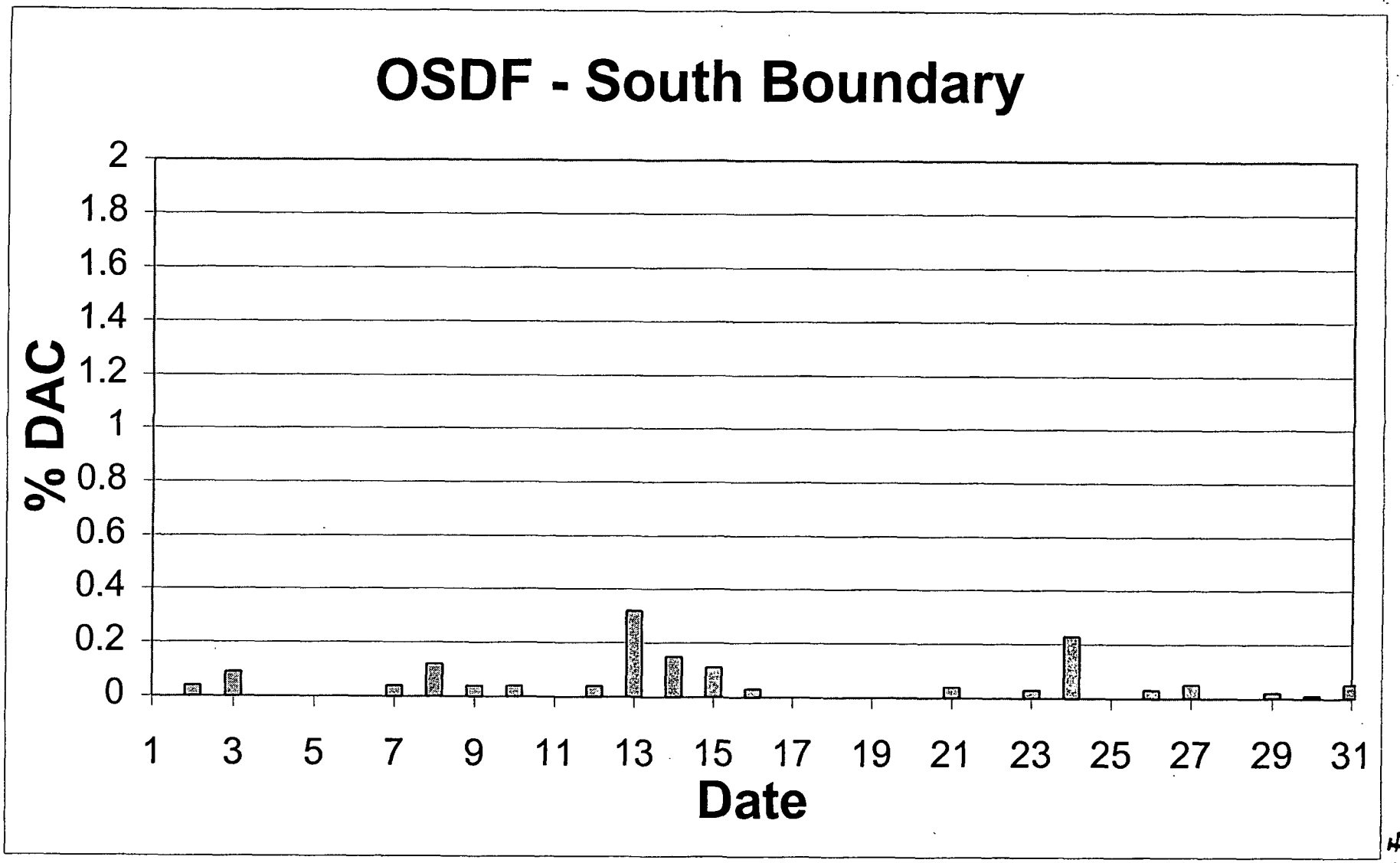
FEMP:Murphy

Enclosure: As Stated

cc w/enclosure:
A. Murphy, OH/FEMP
D. Pfister, OH/FEMP
T. Schneider, OEPA-Dayton (three copies of enclosures)
M. Cullerton, Tetra Tech
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosure:
R. Greenberg, EM-31/CLOV
N. Hallein, EM-31/CLOV
R. J. Janke, OH/FEMP
J. Reising, OH/FEMP
A. Tanner, OH/FEMP
G. Jablonowski, USEPA-V, SRF-5J
F. Bell, ATSDR
M. Shupe, HIS GeoTrans
R. Vandegrift, ODH
K. Badu-Tweneboah, GeoSyntec, MS38
D. Carr, Fluor Fernald, Inc./MS2
J. Chiou, Fluor Fernald, Inc./MS64
T. Hagen, Fluor Fernald, Inc./MS9
U. Kumthekar, Fluor Fernald, Inc./MS64
S. Lorenz, Fluor Fernald, Inc./MS52-5
T. Poff, Fluor Fernald, Inc./MS65-2
W. Snider, Fluor Fernald, Inc./MS64
W. Van Arsdale, Fluor Fernald, Inc./MS64
W. Zebick, Fluor Fernald, Inc./MS64
ECDC, Fluor Fernald, Inc./MS52-7

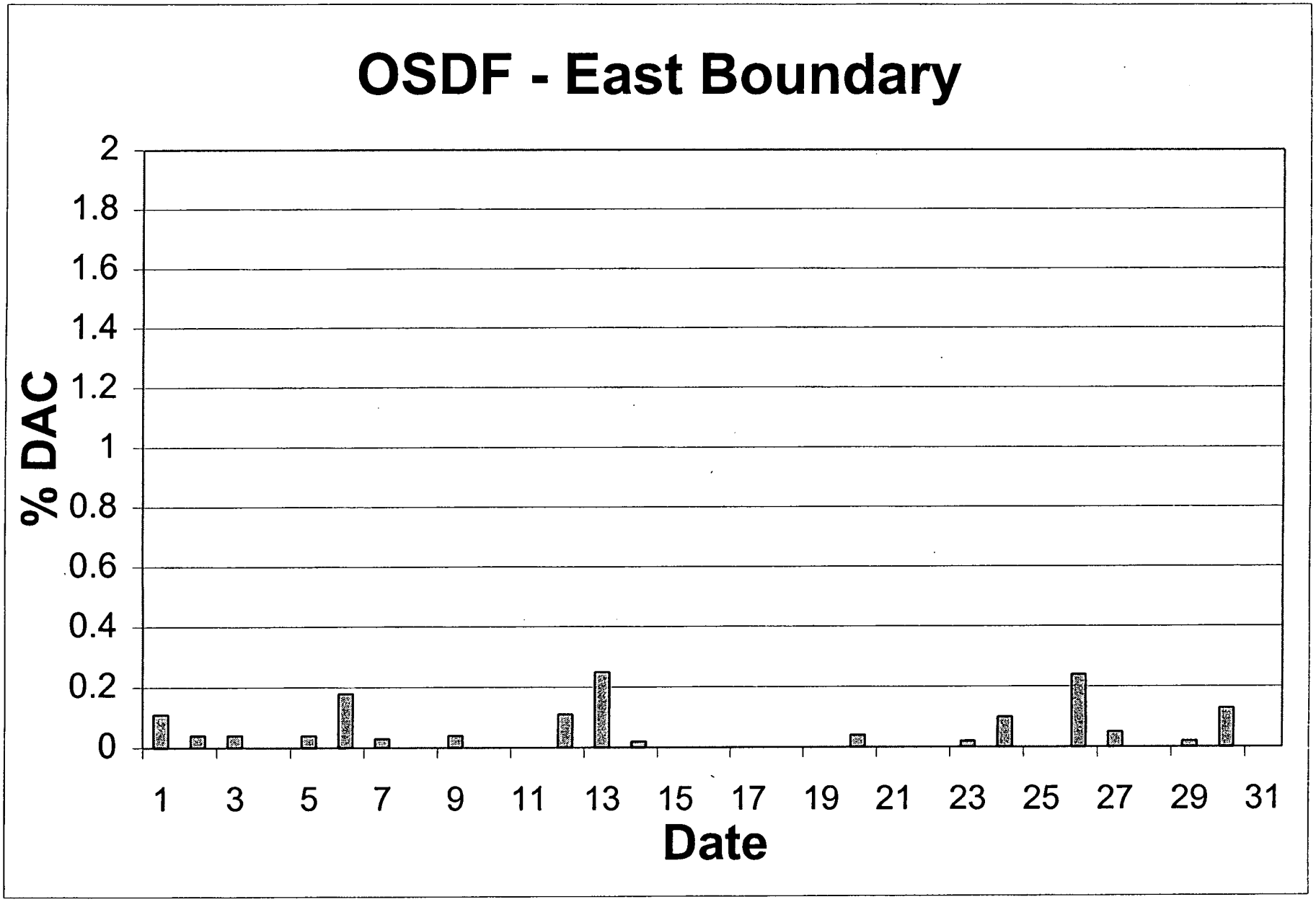

OSDF - North Boundary
% DAC
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
Date



Action level for Radiological (occupational) air monitoring is 2% DAC

Scope of concern isU-238

Associated DAC is 2 E-11uCi/ml


OSDF - East Boundary
% DAC
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
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7
9
11
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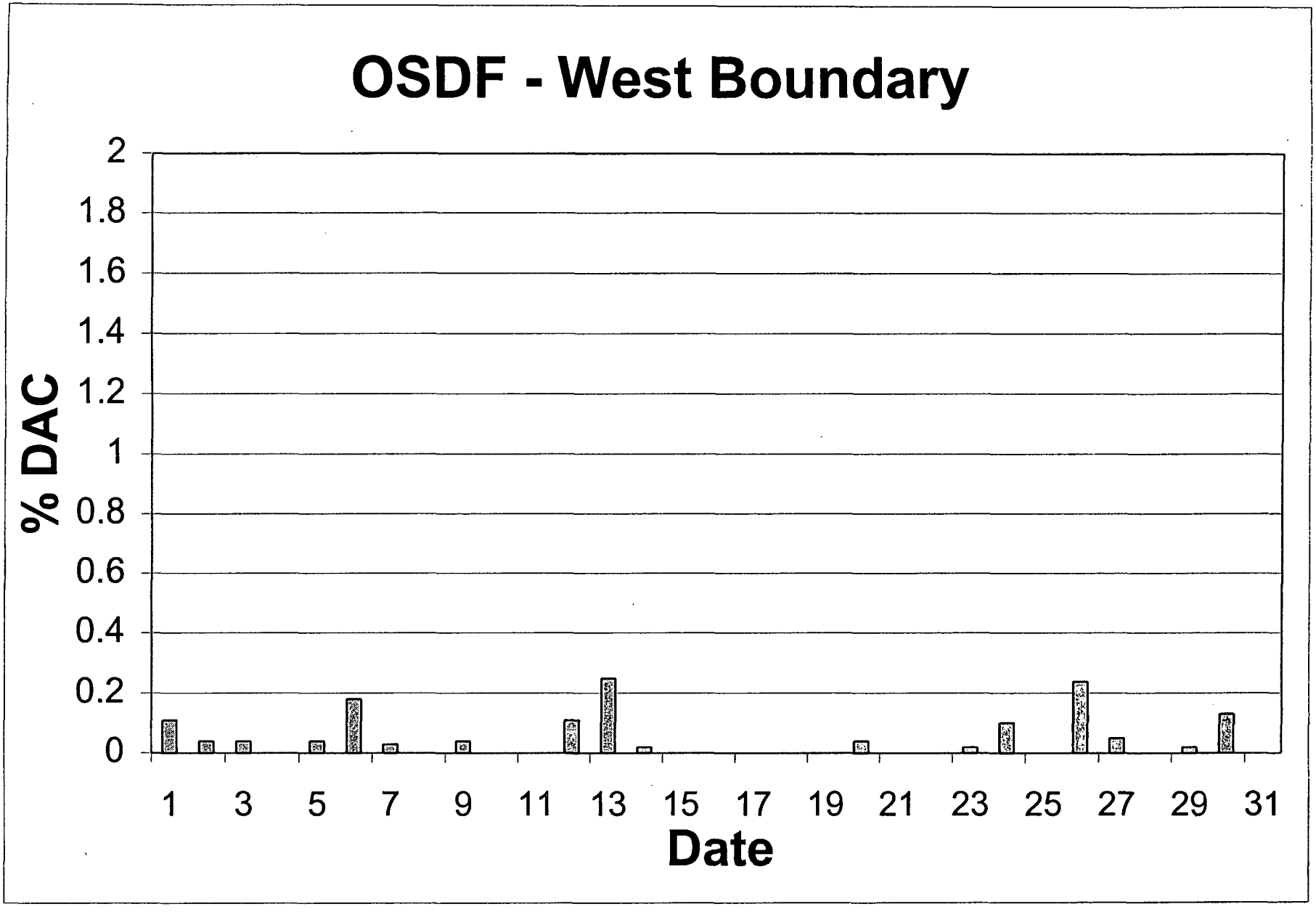
21
23
25
27
29
31
Date


OSDF - West Boundary
% DAC
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
3
5
7
9
11
13
15
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25
27
29
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Date

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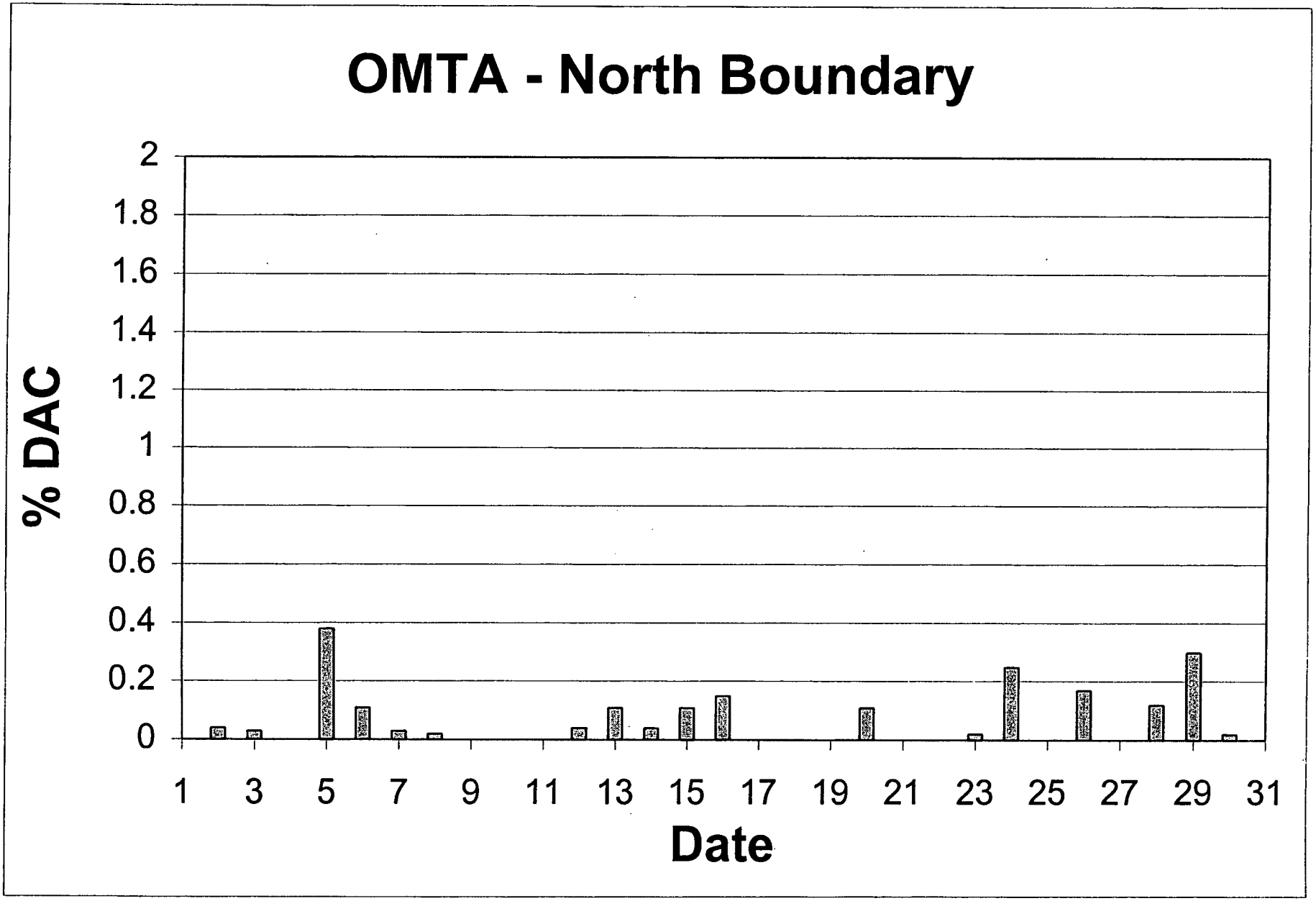
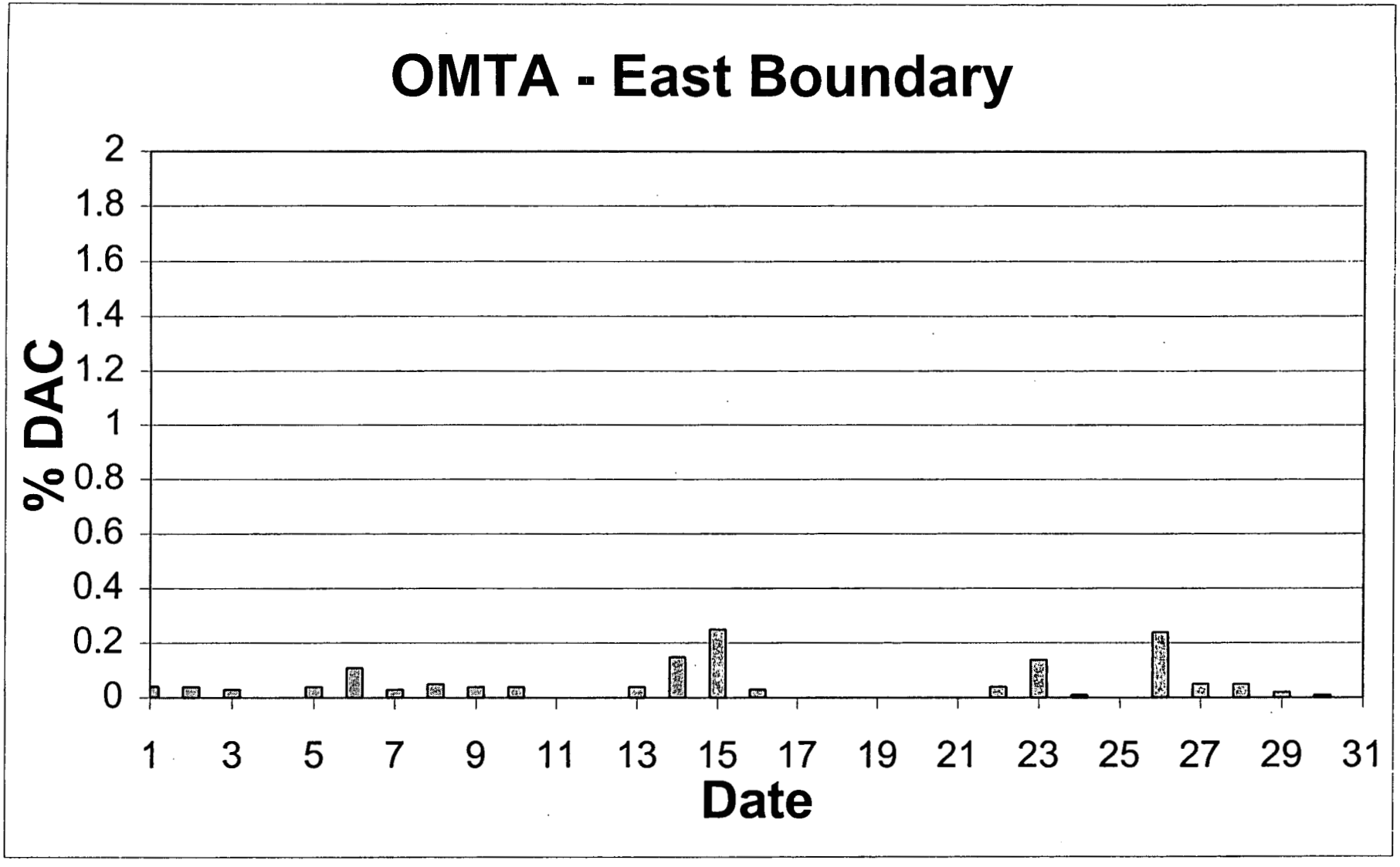

OMTA - North Boundary
% DAC
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
Date



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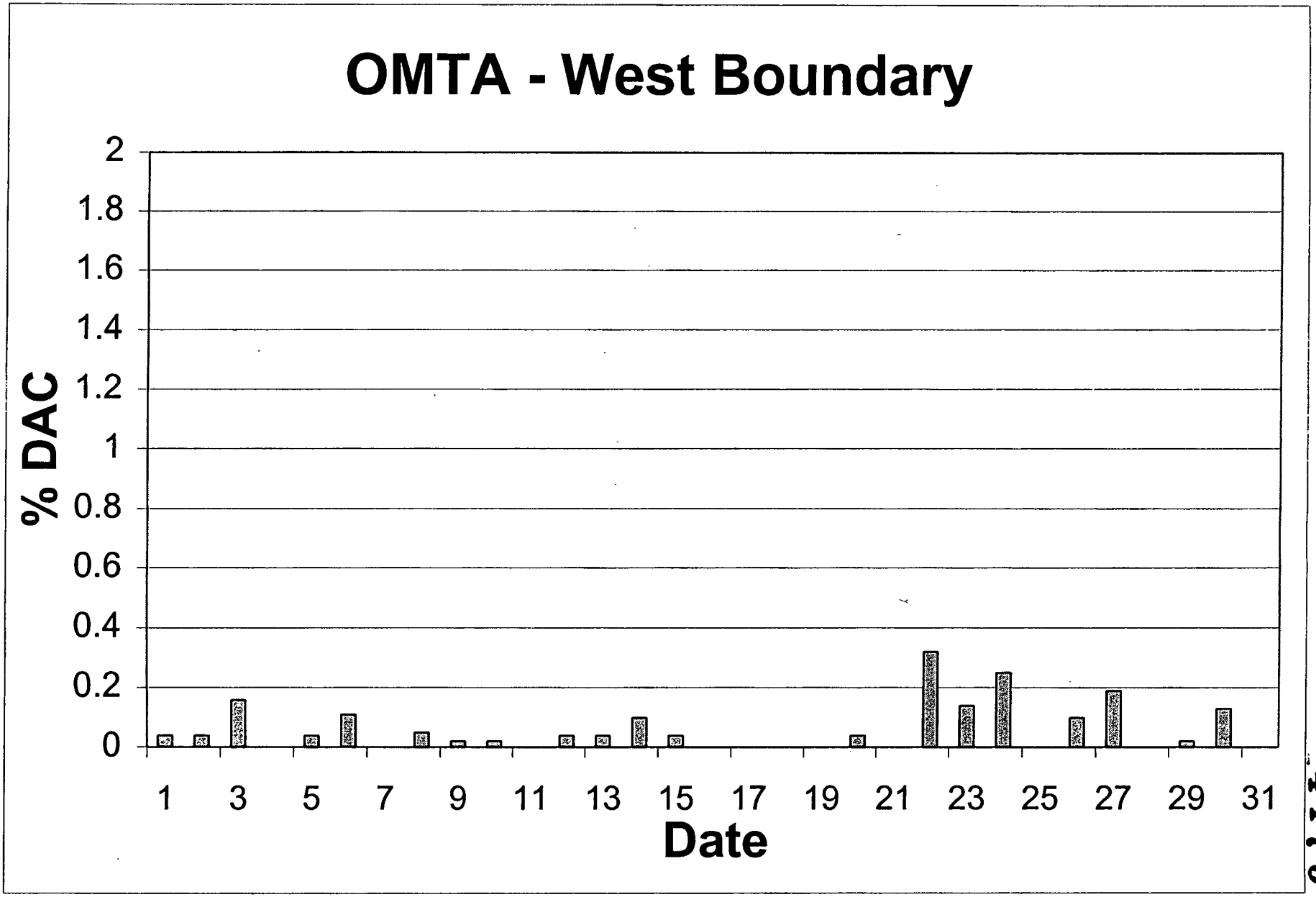
OMTA - West Boundary
% DAC
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
3
5
7
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Date

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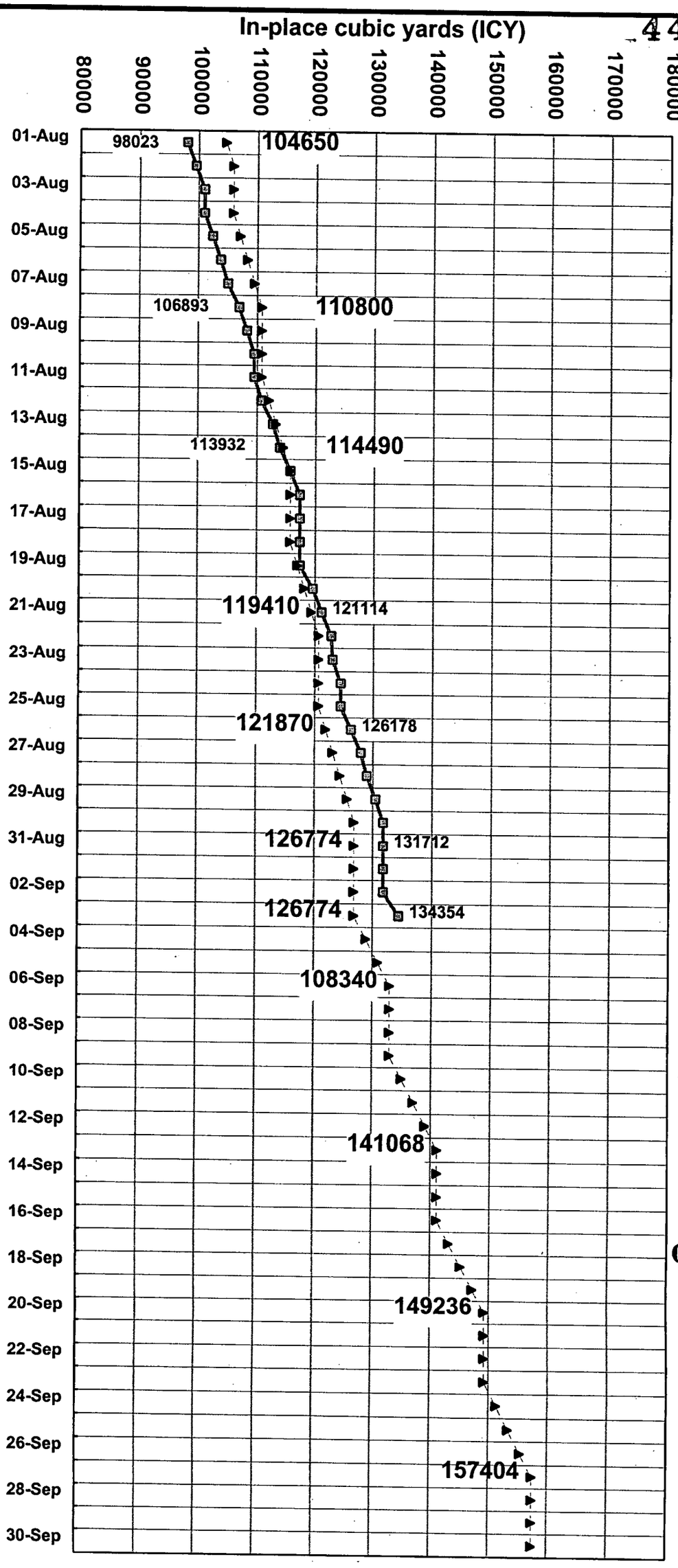
CAT 1 Soil Placement



August - September

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Debris Placement

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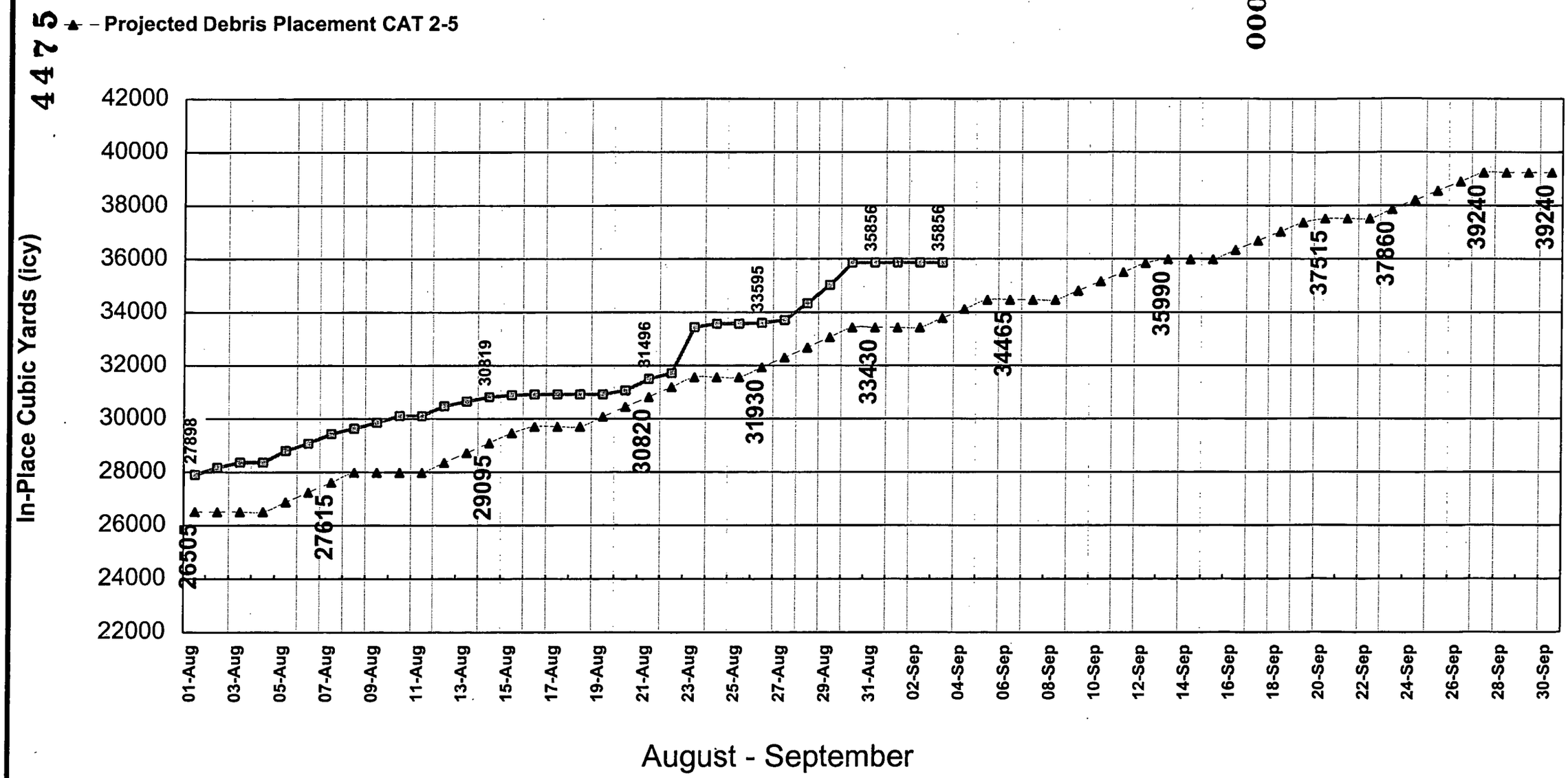

Total Debris Chart 1

09/12/2002

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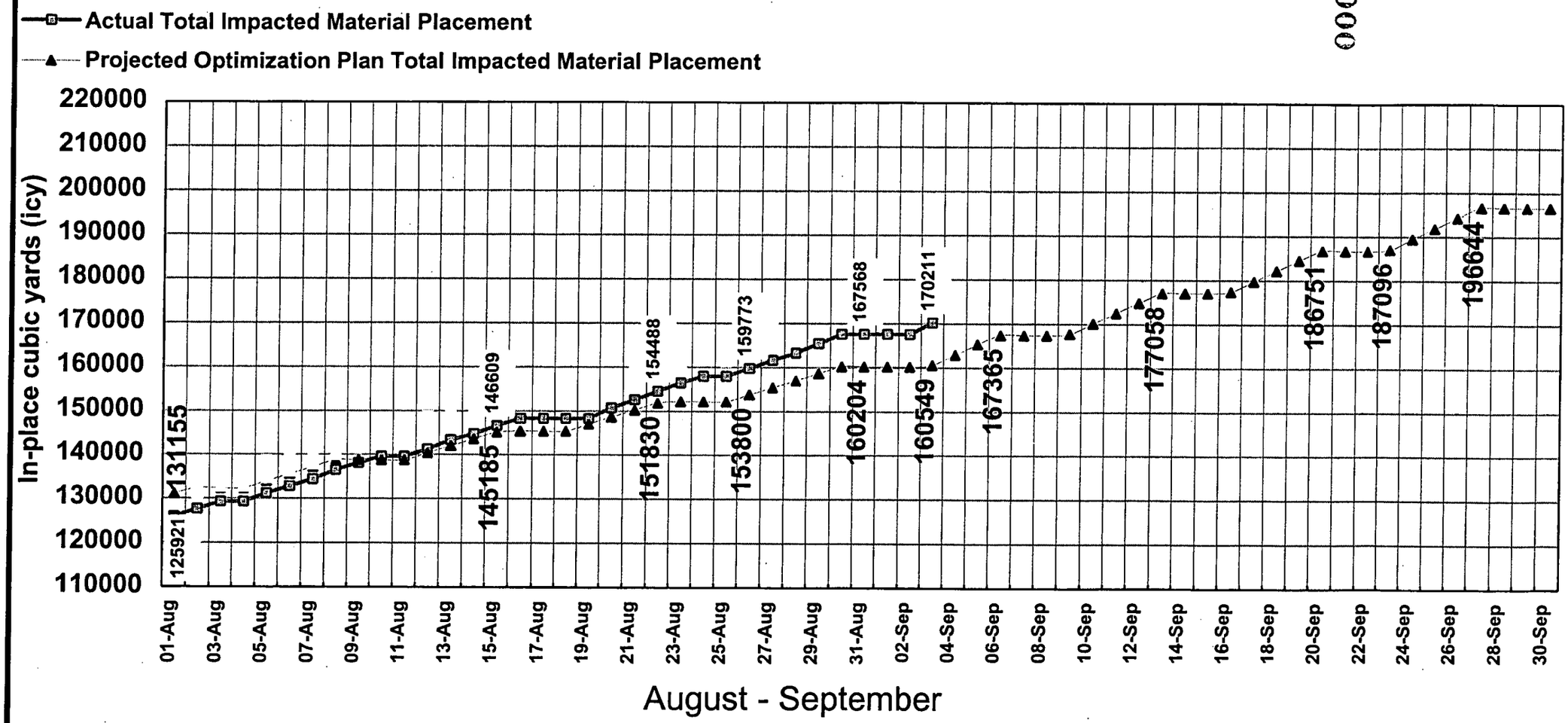
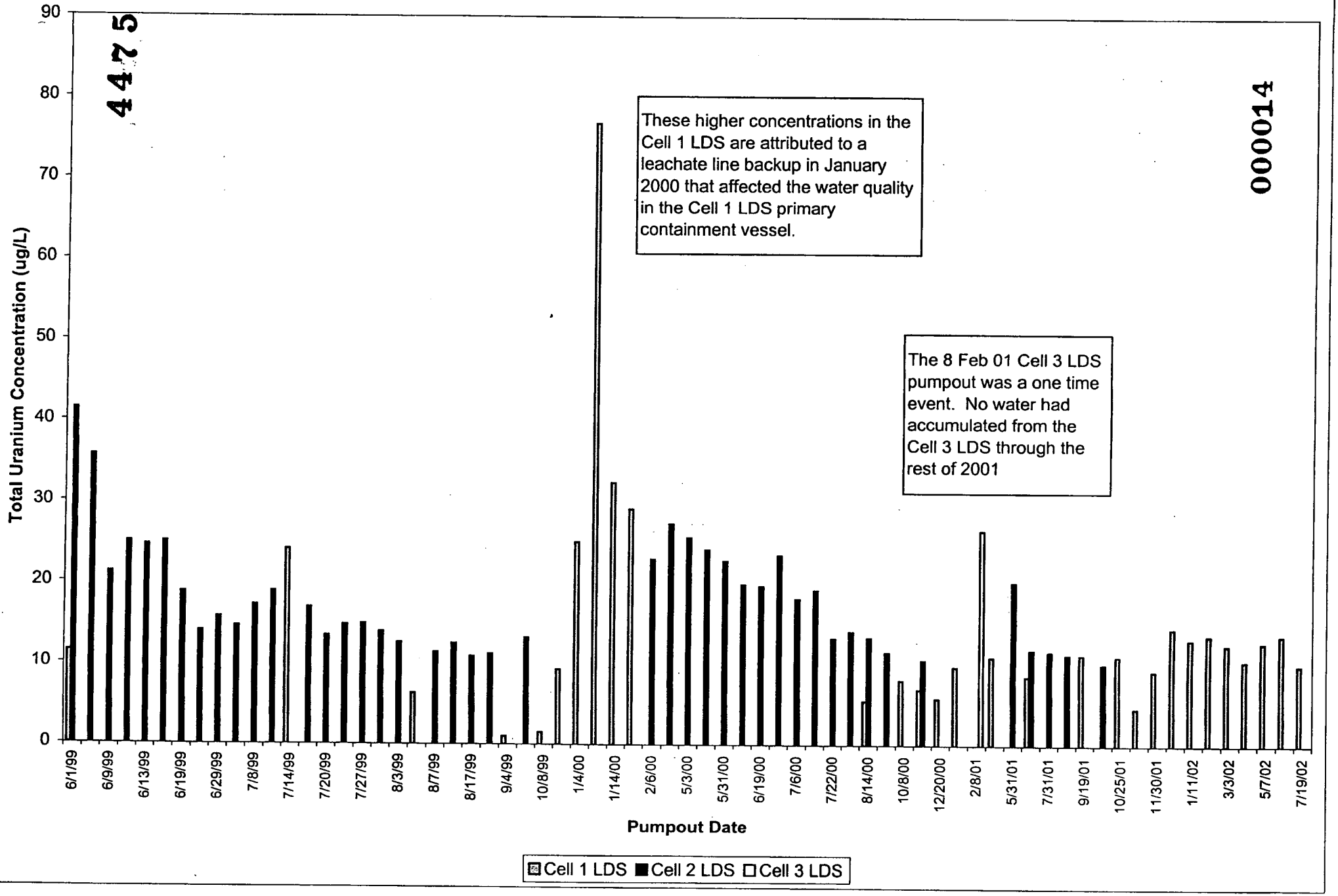
Total Soil and Debris Placement (icy)



TOTAL URANIUM CONCENTRATION IN LDS PUMPOUTS



LDSLCSgrph.xls Chart LDS Pumpout U 09/19/02

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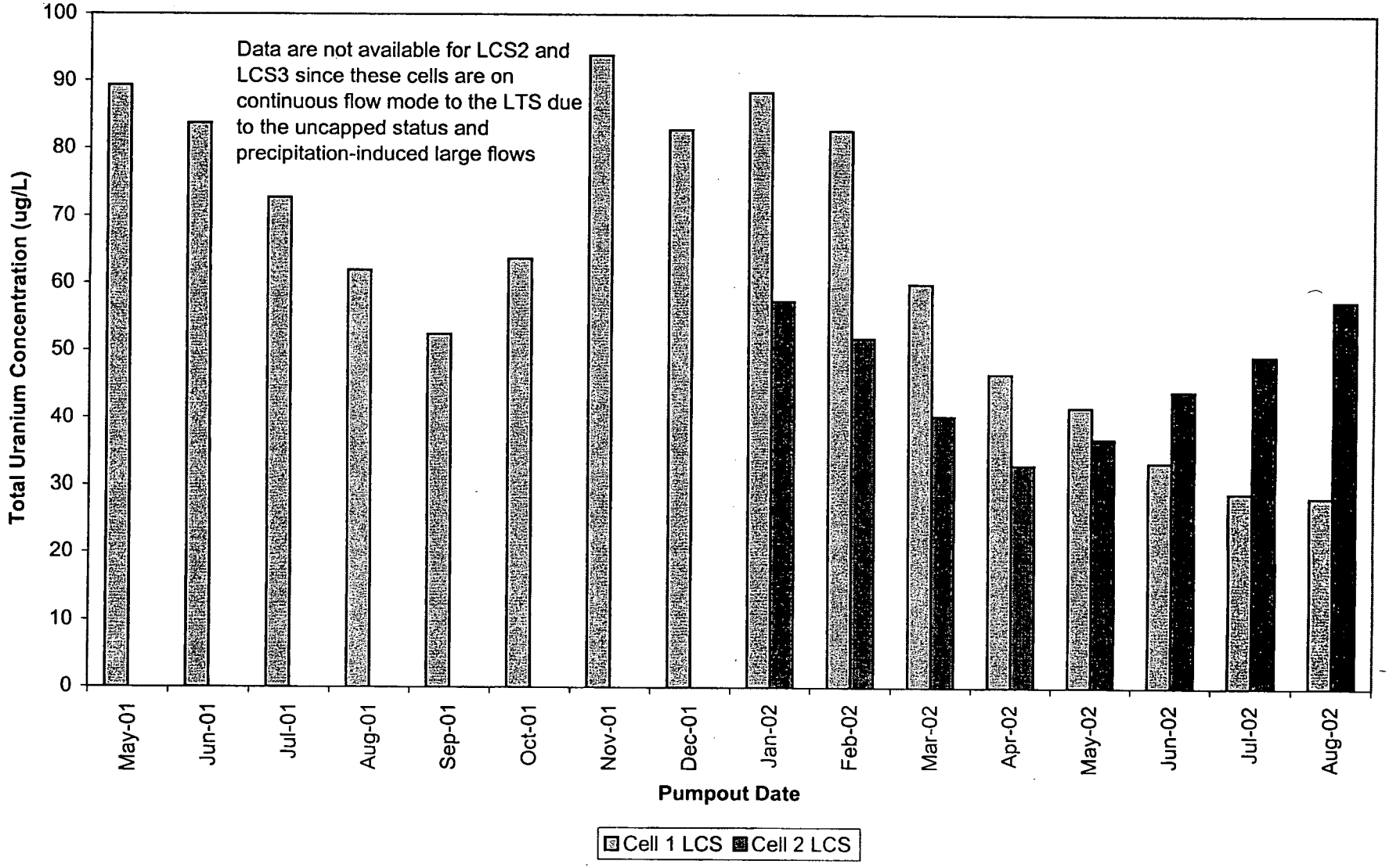
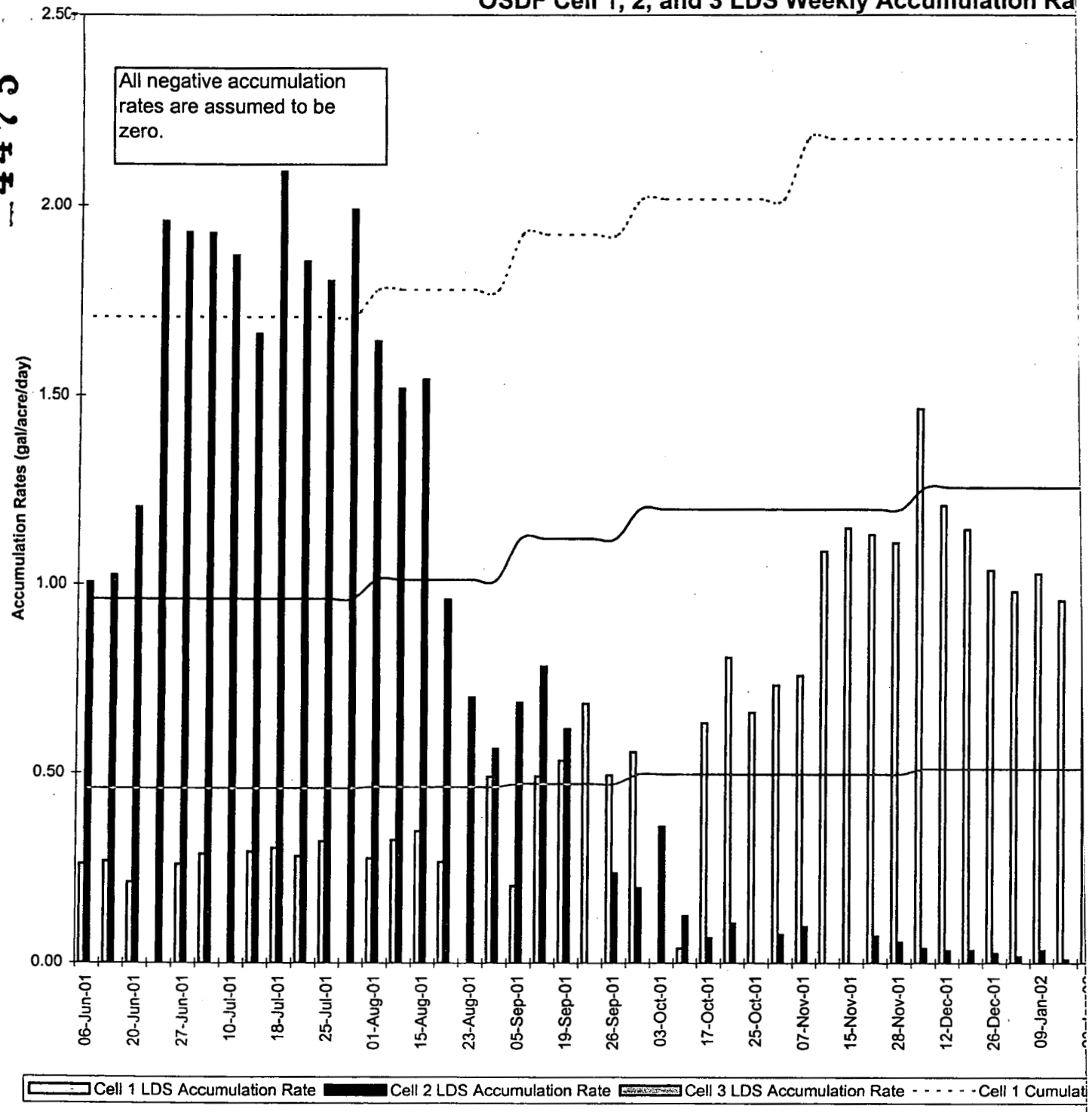
MONTHLY AVERAGE TOTAL URANIUM CONCENTRATION IN LCS PUMPOUTS



OSDF Cell 1, 2, and 3 LDS Weekly Accumulation Ra



LDS rates and cell loading.xls without Cell 1 5 Jan 00 123 (2) 09/19/02 1:32 PM

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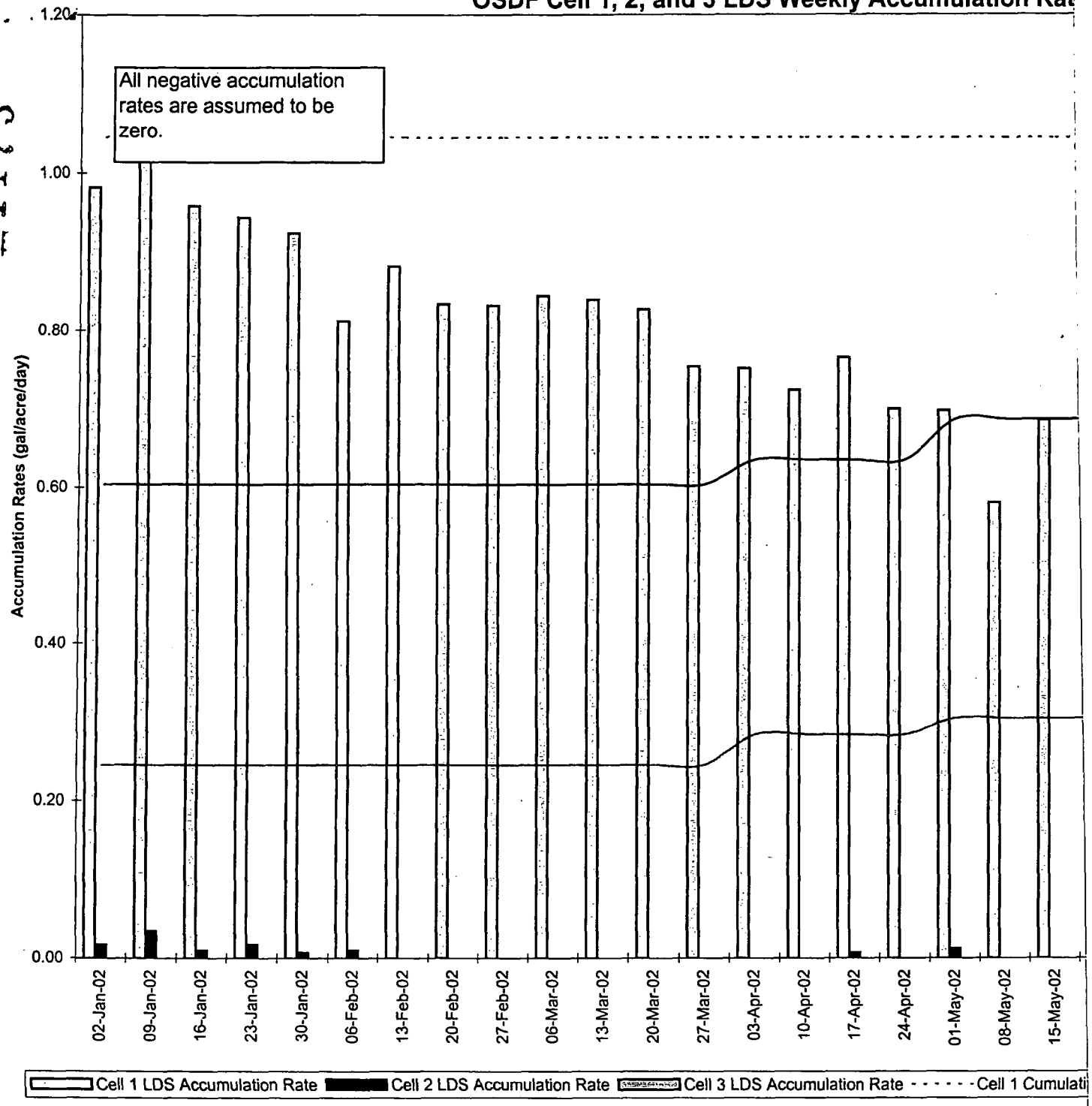
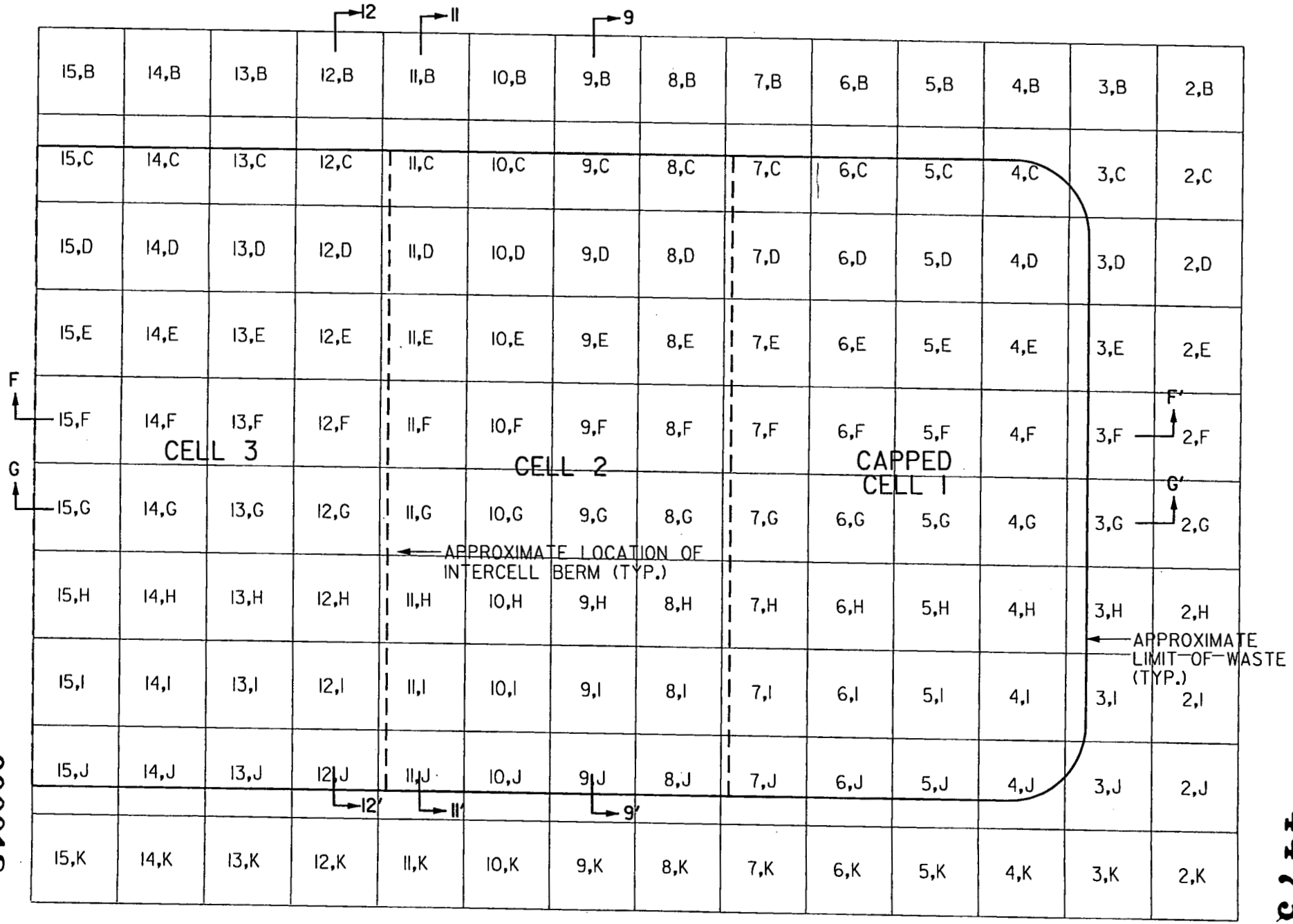

OSDF Cell 1, 2, and 3 LDS Weekly Accumulation Rat
All negative accumulation rates are assumed to be zero.
Accumulation Rates (gal/acre/day)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
02-Jan-02
09-Jan-02
16-Jan-02
23-Jan-02
30-Jan-02
06-Feb-02
13-Feb-02
20-Feb-02
27-Feb-02
06-Mar-02
13-Mar-02
20-Mar-02
27-Mar-02
03-Apr-02
10-Apr-02
17-Apr-02
24-Apr-02
01-May-02
08-May-02
15-May-02
Cell 1 LDS Accumulation Rate
Cell 2 LDS Accumulation Rate
Cell 3 LDS Accumulation Rate
Cell 1 Cumulati

OSDF GRID KEY PLAN



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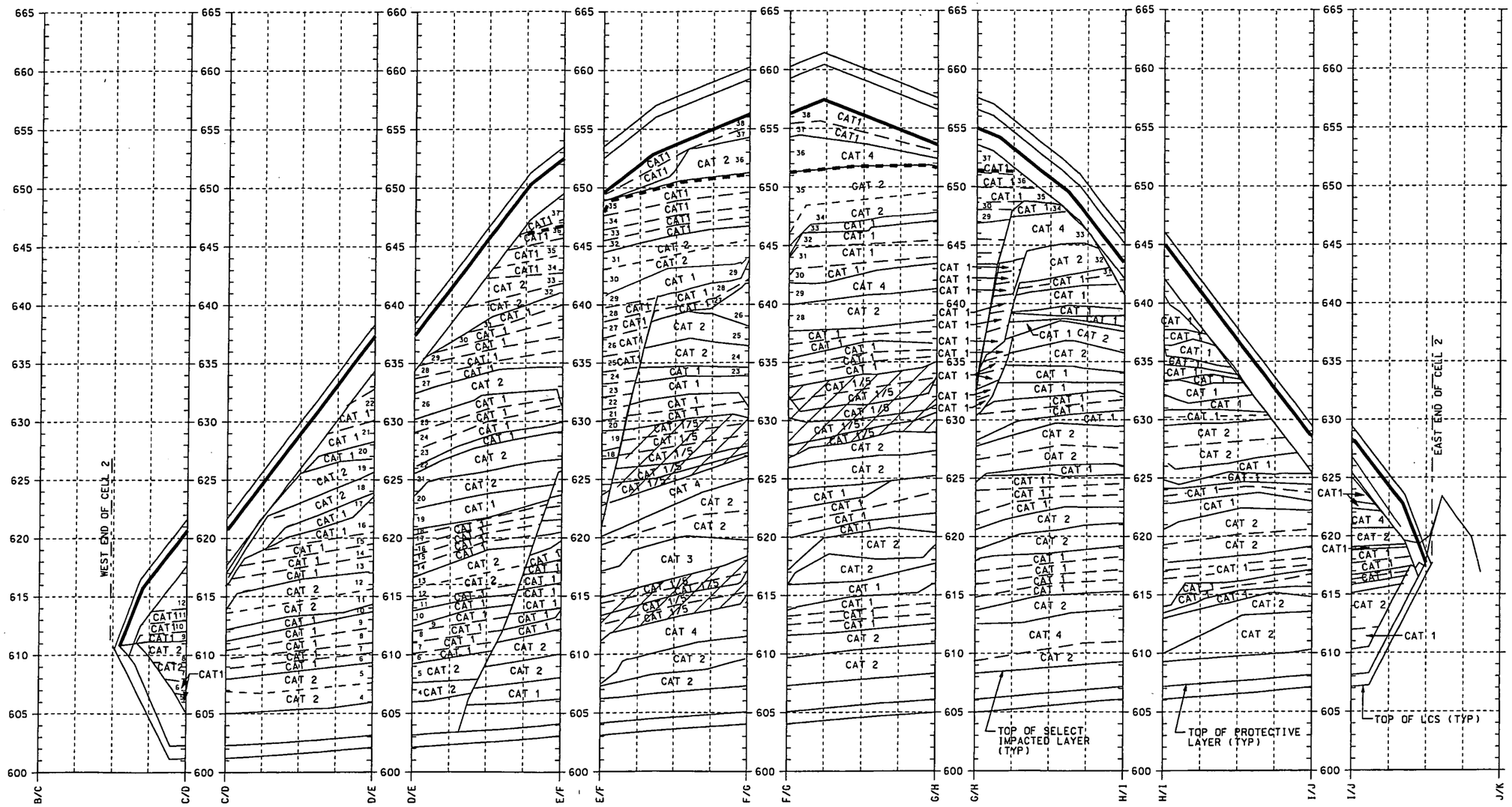
GRID KEY.dgn

LOOKING NORTH CELL 2



SECTION 9-9'

AUGUST 31, 2002

SURFACE ELEVATION 8/31/02

SURFACE ELEVATION 7/31/02

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sect02_0831M.dgn

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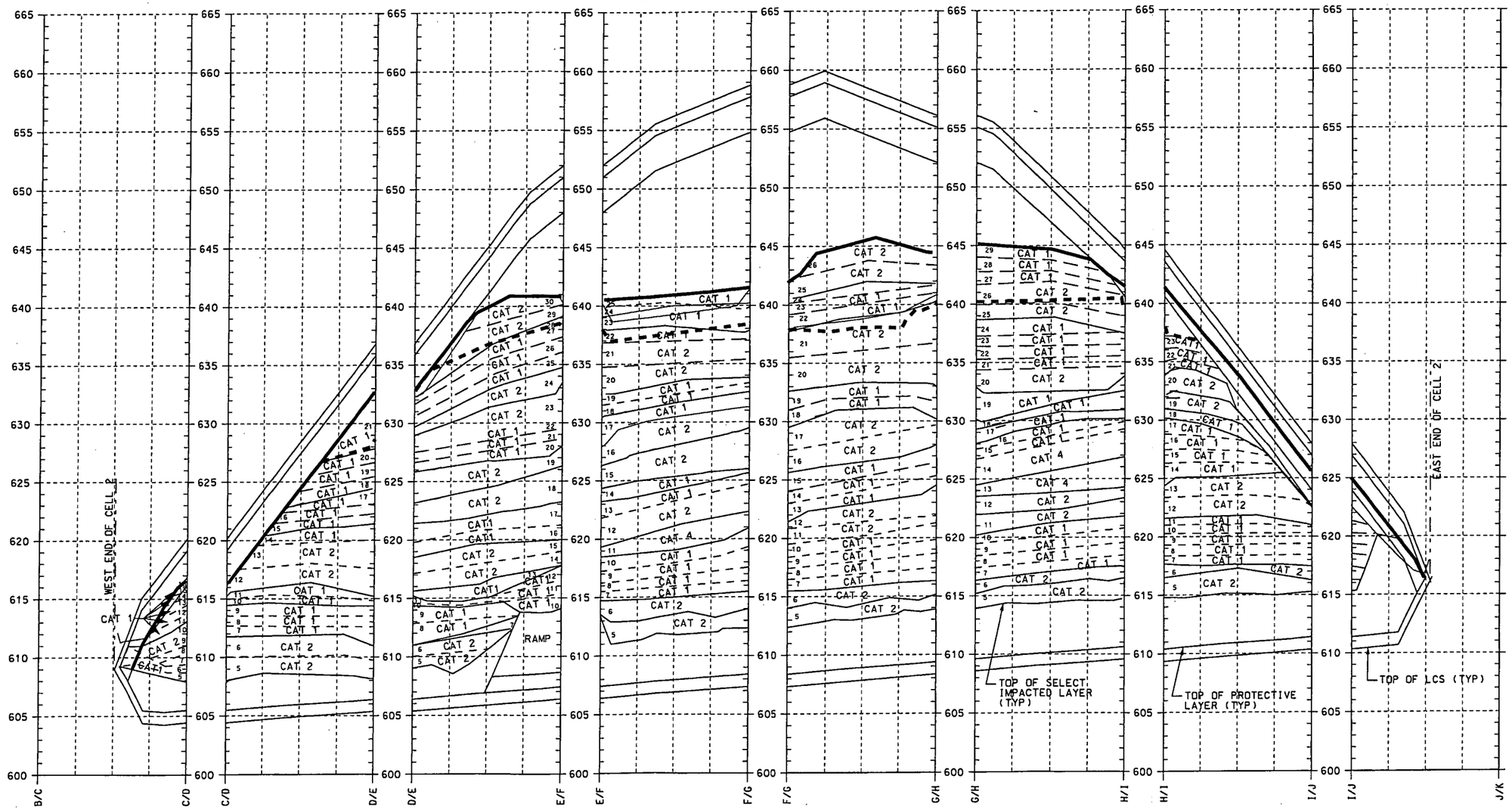
LOOKING NORTH CELL 2



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SECTION II-II'

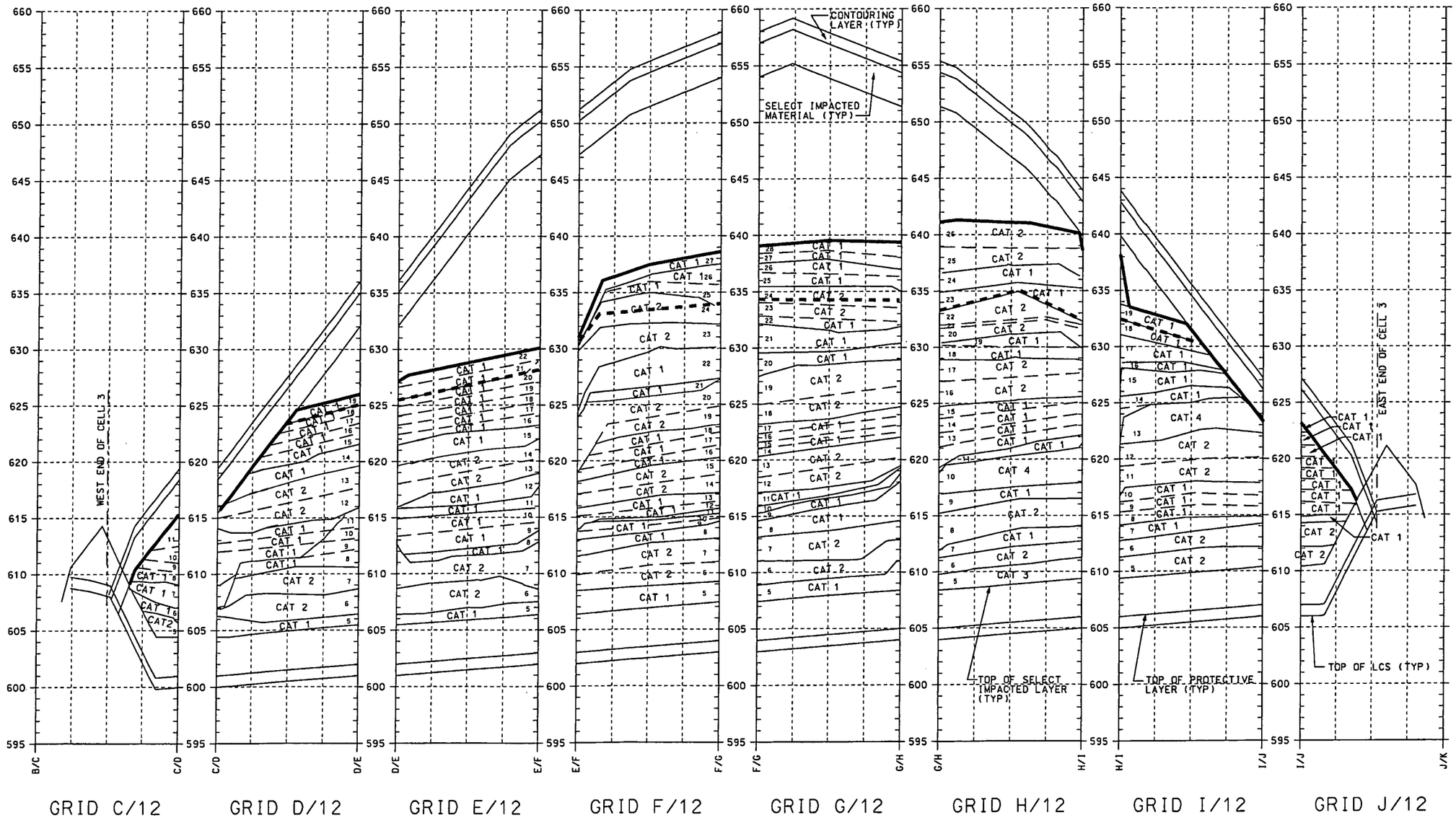
AUGUST 31, 2002

SURFACE ELEVATION 8/31/02

SURFACE ELEVATION 7/31/02

sect02_0831M.dgn

LOOKING NORTH CELL 3



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SECTION 12-12'

AUGUST 31, 2002

SURFACE ELEVATION 8/31/02

SURFACE ELEVATION 7/31/02

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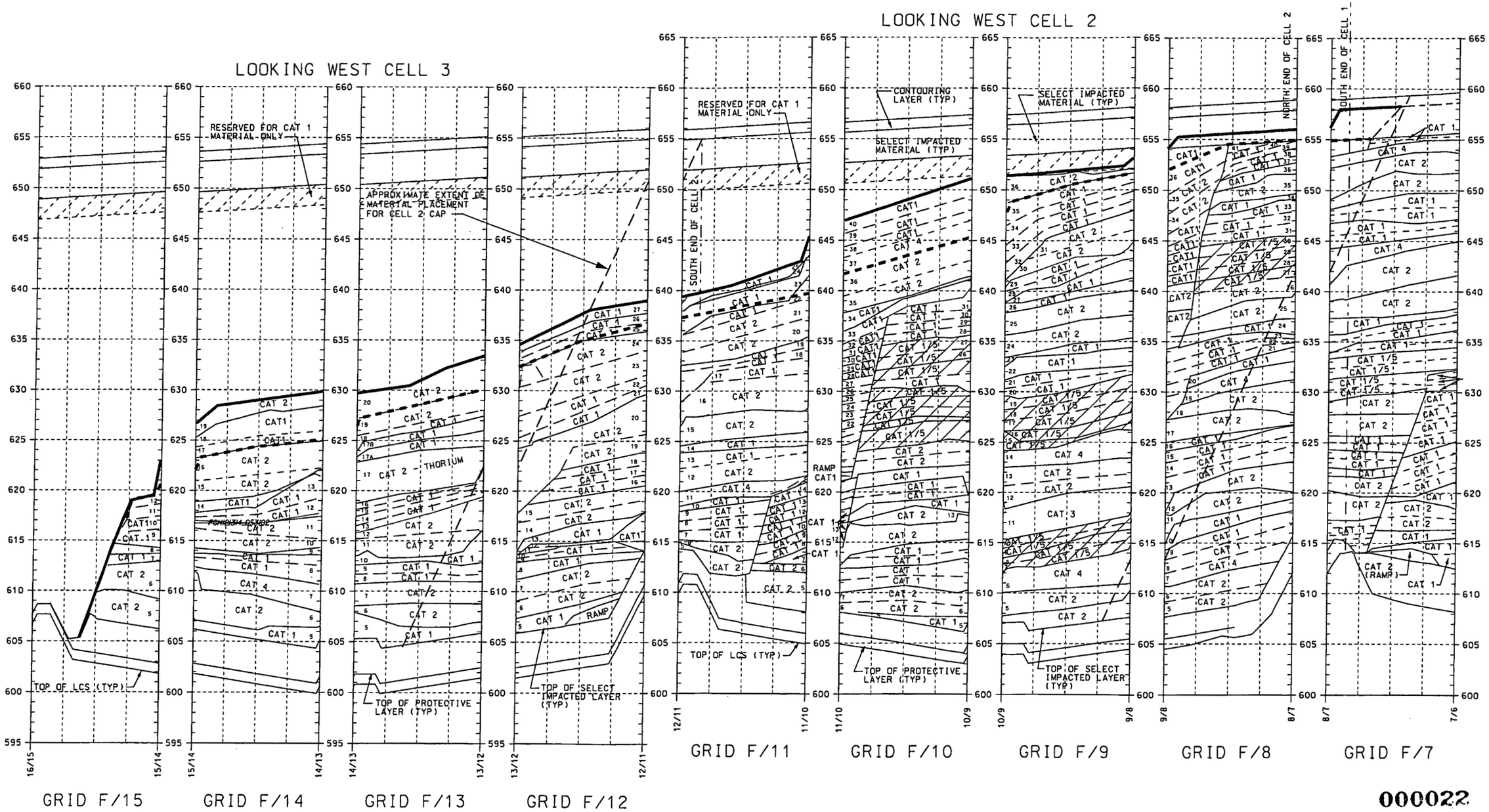

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SECTION F-F'

AUGUST 31, 2002

SURFACE ELEVATION 8/31/02

SURFACE ELEVATION 7/31/02

F

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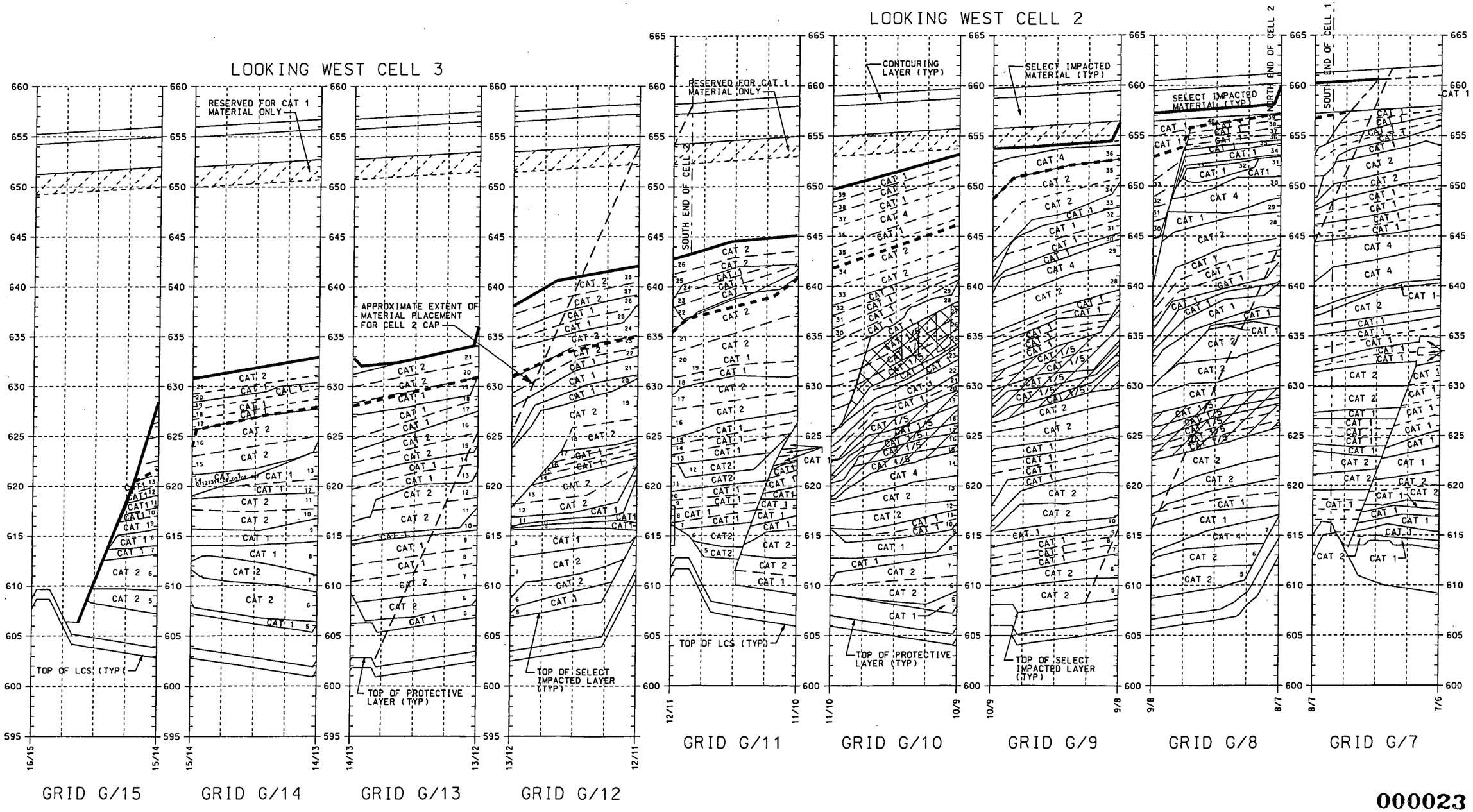

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SECTION G-G'

AUGUST 31, 2002

SURFACE ELEVATION 8/31/02

SURFACE ELEVATION 7/31/02

G

sect02_0831M.dgn

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