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July 26, 2005

Todd Croft  
Supervisor  
Nevada Division of Environmental Protection  
1771 East Flamingo, Suite 121-A  
Las Vegas, NV 89119

Dear Mr. Croft:

Subject: Perchlorate Remediation – Second Quarter 2005 Performance Report

Kerr-McGee Chemical LLC (Kerr-McGee) has agreed to provide regular reports to Nevada Division of Environmental Protection (NDEP) describing the progress related to its perchlorate remediation efforts. Integral to those reports is an evaluation of the environment's response to the remedial efforts. A monitoring plan is in place to support these evaluations, and this report summarizes information obtained from monitoring occurring during the second quarter 2005.

In summary, Kerr-McGee continues to treat water collected from the on-site area, Athens Road area and seep area using a perchlorate reduction process. Treatment consists of fluidized bed reactors (FBR's) which are treating up to about 1000 gpm. Please see the attached report for additional information.

Please feel free to contact me at (702) 651-2234 if you have any questions related to this information. Thank you.

Sincerely,

A handwritten signature in cursive script that reads 'SM Crowley'.

Susan M. Crowley  
Staff Environmental Specialist

Overnight Mail

cc: Public Repository  
Larry Bowerman, EPA Region IX  
Jennifer Carr, NDEP  
Mitch Kaplan, EPA Region IX  
Pat Mulroy, Southern Nevada Water Authority

Todd Croft  
July 26, 2005  
Page 2

Leslie Palencia, Metro Water District of Southern California  
Brian Rakvica, NDEP (Las Vegas)  
Pat Corbett, Kerr-McGee  
Dave Gerry, ENSR  
Ed Krish, ENSR  
Tom Reed, Kerr-McGee

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Mitch Kaplan, EPA Region IX  
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Craig Wilkinson, TIMET  
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Pat Corbett, Kerr-McGee  
Ed Krish, ENSR  
Tom Reed, Kerr-McGee  
Don Shandy, Kerr-McGee  
Rick Stater, Kerr-McGee

Attachment

**Kerr-McGee Chemical LLC**

Henderson, Nevada



Quarterly Performance Report  
Perchlorate Recovery System  
Henderson, Nevada  
April – June 2005

ENSR Corporation

July 2005

Document Number 04020-023-110

Quarterly Performance Report  
Perchlorate Recovery System  
Kerr-McGee Chemical LLC, Henderson, Nevada

April – June 2005

Document No. 04020-023-110

July 2005

Submitted in Accordance with:

Administrative Order  
On Consent  
October 8, 2001

Prepared by:

ENSR Internacional, Inc.  
1220 Avenida Acaso  
Camarillo, California 93012

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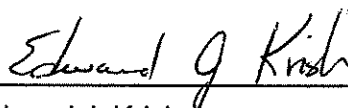
**Quarterly Performance Report  
Perchlorate Recovery System  
Kerry-McGee Chemical LLC  
Henderson, Nevada**

The undersigned hereby certify that they are responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.



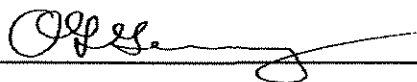
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Edward J. Krish  
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## 1.0 INTRODUCTION

In accordance with the Administrative Order on Consent (AOC) for cleanup of perchlorate impacted groundwater in the Henderson area, finalized October 8, 2001, Kerr-McGee Chemical LLC (KMCLLC) submits this quarterly performance report to the Nevada Division of Environmental Protection (NDEP).

This report, covering the period April through June 2005, summarizes performance data for the perchlorate recovery system – consisting of the on-site well field, the off-site Athens Road well field, the off-site Seep well field and the off-site Seep area surface flow capture sump - and evaluates the effectiveness of the groundwater recovery system installed to carry out the perchlorate recovery program. In addition, information is provided on the status of the treatment technologies used for perchlorate removal from the water collected.

The locations of the components of this system are shown on Figure 1. The performance of each component will be discussed separately starting with the on-site well field and proceeding northward. In the last three months since April 2005, a total of about 166,891 pounds of perchlorate have been removed from the environment with the overall system. For the second quarter of 2005 the total pounds of perchlorate captured amounted to about 1834 pounds per day. Of this total, about 82,337 pounds came from the on-site well field, about 70,969 pounds came from the Athens Road well field, about 13,175 pounds came from the Seep area well field and 410 pounds came from the Seep surface flow capture sump. Figure 4 shows the first half 2005 monthly perchlorate recovery totals and the relative significance of each of the four components, whereas Table 3 shows the average pounds of perchlorate per day removed by each component.



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## 2.0 ON-SITE WELL FIELD

Figure 2 shows the locations of the onsite groundwater interceptor wells, monitor wells, the groundwater barrier (bentonite slurry) wall and the groundwater recharge trenches. Appendix A of this report lists monthly groundwater elevations recorded since April 1998 in these wells. Groundwater elevation data mapped on Figure 2 were recorded in May 2005.

Figure 2 shows the May 2005 potentiometric surface in the on-site interception area. As shown, the map for the second quarter reporting period reflects areas of drawdown associated with the interceptor wells along with a marked elevation difference of the water table on either side of the groundwater barrier (slurry) wall. The groundwater “mound” on the downgradient side of the barrier wall in the vicinity of wells M-80, M-81A, M-70 M-71 and M-72 represents the area of fresh water entry from the recharge trenches shown on Figure 2. The water placed in the trenches is stabilized water from Lake Mead.

Table 1 lists perchlorate concentrations from November 2004, February 2005 and May 2005, for wells in the vicinity of the on-site well field. The *Perchlorate in Groundwater* map, Figure 3, shows the contoured data from May 2005. This mapping shows that the slurry wall has cut off the downgradient movement of groundwater containing high perchlorate concentrations. In the vicinity of the downgradient recharge trenches concentrations down to 2 mg/l range have been mapped and between the trenches and the barrier wall the stagnant zone of relatively high perchlorate concentrations - in wells M-70, 71 and 72 – is slowly decreasing in some wells.

Figure 5 shows in graph form, an east-west cross-section across the on-site well field, onto which is plotted the perchlorate concentrations for the interceptor wells listed on Table 1. The most recent data from May 2005 show that the values in highest concentration wells are significantly lower than in November 2004 and mirror the concentrations from February 2005. Note that well I-R, at 2800 mg/l, is the lowest it has ever been.

### 3.0 ATHENS ROAD WELL FIELD AND PIEZOMETER WELLS

The Athens Road well field was completed in March 2002 and groundwater collection in this area began shortly afterward. Continuous pumping from this well field began in mid-October 2002. Figure 1 and Plates 1, 2, 3 and 4 show the location of the Athens Road Well Field. Recent mapping of the May 2005 groundwater levels is shown on Plate 1, the *Potentiometric Surface between the Athens Road Well Field and the Seep*. The potentiometric surface slopes generally north-northeastward. The situation is complicated by the normal infiltration of the City of Henderson Water Reclamation Facility COH WRF Rapid Infiltration Basins (RIB) water (about one million gpd from the center of sections 31 and 36) and the large intermittent infiltration in the southeasternmost RIBs (tens of millions gpd) between them which form large mounds in the potentiometric surface north of the well field. The recovery wells that comprise the well field are twinned with nearby duplicate “Buddy Wells” (ART-A series) installed as back-up wells in case of a pumping-well shut down. Table 4 shows, that as of June 30, 2005, the pumping ART wells are ART-1A, 2A, 3A, 4A, 6A, 7A and 8A.

Plate 3, the *Potentiometric Surface at the Athens Road Well Field* contains water level contours at one-foot intervals in the immediate vicinity of the well field. Distinct cones of depression have developed beneath the well field but are not as large as in February 2005 primarily due to the significant winter rain events. The cones of depression are subtle at Athens Road - even at the one-foot contour interval – and are better represented by mapping the net drawdown. Plate 4, the *Net Drawdown at the Athens Road Well Field* shows that since April 2002 portions of the well field have been dewatered up to 9.3 feet at ART-3. Plate 4 also shows that the two-foot drawdown contour currently is about 2100 feet wide, extending about 350 feet past ART-1 on the west and about 750 feet past ART-7 on the east. Since November water levels have increased one to two feet due to the significant winter rain events. With the onset of summer the water table is expected to decrease.

The *Perchlorate in Groundwater Map between the Athens Road Well Field and the Seep*, Plate 2, shows that perchlorate concentrations north of Athens Road continue to decrease toward the Seep well field. A list of perchlorate concentrations in selected off-site wells is attached as Table 2.

In the Athens Road area, of the eight wells completed to intercept perchlorate in groundwater, only seven have adequate groundwater to pump. Table 4 shows the total and individual flow rates from the pumping wells. As of June 30th, the well field was pumping at about 232 gpm. This has recently been increased to about 250 gpm. Perchlorate concentrations flowing toward the western part of the well field continue to contain up to 500 mg/l in PC-50 and this is seen to continue up to the well field in monitor well PC-17.

The perchlorate concentrations since October 31, 2001 of the ART-series wells are shown in Figure 6. This graph shows that since January 2003 the perchlorate concentrations have basically stabilized with only minor variations. Perchlorate concentrations have fluctuated a little more than usual due to the recent significant winter rain events. Figure 7, an east-west cross-section graph through the well field, shows that perchlorate concentrations mirror those from February 2005 except for PC-17 which is higher. Note that the perchlorate concentrations on the western (PC-55 and ART-1) and the eastern side of the well field (PC-122) remain very low.

Plate 5, the *Hydrogeologic Cross Section – Athens Road Traverse*, shows hydrologic conditions at the time of groundwater sampling in May 2005 versus May 1998. Compared to 1998, the current zone of high perchlorate concentrations is narrower. Groundwater levels are currently as much as 9.3 feet deeper than they were in 1998 but about 1 foot higher than last quarter due to the significant winter rains.

Five monitor wells in the well field are equipped with sensors to record continuous water level readings. Figure 8 shows the drawdown associated with pumping the ART wells. Between October 18, 2002 and June 30, 2005 drawdown has been 5.9 ft, 5.6 ft and 3.3 ft in monitor wells PC-18, PC-17 and ART-5, respectively. The graph shows that current groundwater levels have almost stabilized in all wells except PC-18. These higher water levels are due to the significant winter rains. Water levels should decrease in the near future as summer progresses.

In order to assess the effects of drawdown on land subsidence a background GPS survey was conducted in March 2002 by Stantec Consulting, Inc using real-time kinematic techniques with Trimble 4000 SSI and 4700 receivers and a TSC1 data collector. Since then the well field has been resurveyed every six months starting in May 2003 to determine the extent of subsidence. Figure 8A shows that between March 2002 and May 2005 there has been virtually no subsidence of the land surface. As an additional measurement, a graph was constructed showing the potentiometric surface across the well field through time. Figure 8B, the *Athens Road Section Graph: Potentiometric Surface*, shows that between March 2002 and May 2005 the groundwater level has dropped about 6 to 9 feet across the entire well field. The most recently measured groundwater levels show that the water levels have increased since November 2004 because of the significant winter rains but should decrease in the near future as summer progresses. Also shown on this figure is the location of the Muddy Creek bedrock high between ART-4 and ART-5 which is now above the groundwater level. This shows that the well field is developing a uniform cone of depression which indicates that perchlorate capture is virtually complete. Since three years data has shown virtually no subsidence it is recommended that subsequent GPS surveys be conducted yearly with the next survey scheduled for May 2006.

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The seven ARP-series wells make up the Athens Road piezometer well line, located about 250 feet north of the Athens Road well field. The perchlorate concentrations of these wells, completed in December 2001, are shown in Figure 9. The western two wells, ARP-1 and 2, and the eastern well, ARP-7, continue to contain very low perchlorate concentrations. ARP-5, which has been slowly rising since about February 2002, has now decreased to 250 mg/l. Since December 2002, ARP-3 and MW-K4 have also declined significantly in concentration. Figure 10, an east-west section graph across the piezometer line, shows that from November 2004 to May 2005 the perchlorate concentration in the piezometer wells have tracked in a narrow band. It will take longer to clean the piezometer line wells because pumping at the Athens Road well field and discharge by COH WRF has flattened the hydraulic gradient in the area of the piezometers.

Intermediate between the Athens Road area and the Seep area are the COH WRF and the Lower Ponds monitor-well lines. Figure 11 shows the perchlorate concentrations in the COH WRF wells from January 2001 to May 2005. As shown, well MW-K5, which has previously been erratic, has become stable since April 2004. The perchlorate concentration in adjacent well PC98R has become stable as well. As of May 2005 MW-K5 and PC-98R contain 24 and 20 mg/L perchlorate, respectively. Concentrations are slowly continuing to decline, subject to minor fluctuations. Figure 12, the east-west section graph, shows that for the last three quarterly reporting periods the perchlorate concentrations in the well line have changed only slightly. Figure 13, the graph of depth to water in PC98R, shows that since February 2003 the groundwater level has continued to generally decline, but significant groundwater “mounding events” due to increased COH WRF surface water infiltration continue sporadically. An increase in groundwater levels since September to around 18 feet bgs is probable largely due to rain events.

Figure 14, the *Lower Ponds Traverse: Perchlorate Concentrations* graph shows that perchlorate concentrations have not shown much variation since about February 2004. Plate 2, *The Perchlorate in Groundwater Map between the Athens Road Well Field and the Seep*, shows that the width of greater than 10 mg/l has decreased significantly since February 2005. On Plate 2, PC-56 contained 4 mg/l perchlorate in May down from 27 mg/l in February. Figure 15, the *Lower Ponds Section Graph* shows that since November 2004 the perchlorate concentrations in the wells except PC-56 occur within a narrow range of concentrations.

#### 4.0 SEEP AREA WELL FIELD AND SEEP SURFACE FLOW CAPTURE

In February 2003 five additional wells (PC117 to PC121) and in December 2004 one additional well (PC133) were completed in the Seep well field (Plates 2 and 3). Now, the Seep well field consists of ten wells – two of which (PC-99R2 and R3) are connected and operate as one – positioned over the deepest part of the alluvium channel that contains the highest concentrations of perchlorate. The well field is located about 600 feet upgradient of the seep area surface flow capture sump. Plate 2 and Figure 16 show the regional and detailed depiction of the perchlorate content of the wells, respectively. Since PC133 has only recently been commissioned to pump groundwater it will appear in the figures and tables in the third quarter report. Recent mapping of the perchlorate concentration contours on Plate 2, and the cone of depression mapped on Plate 1, suggests that the strong pumping of the Seep well field is drawing in water from the Wash to the north. Additional evidence comes in the form of greatly reduced perchlorate and conductivity concentrations in PC-95 and 97, north of the well field. For example, the perchlorate concentration in PC-95 has declined from 67 to 4 mg/l since January, 2003 whereas the concentrations in PC-97 have declined from 120 to 9 mg/l over the same period. These concentrations are up very slightly since November 2004. This situation will continue to be monitored and may result in a further decrease of the pumping rate.

The perchlorate concentrations in the Seep wells continue to occur within a narrow range of concentrations. The May 2005 data plotted on Figures 16 and 17 show that the concentrations in the pumping wells have dropped to 27 mg/l or less. The highest perchlorate concentration in May 2005 was 30 mg/l in well PC-89. Figure 17, the east-west section graph of the Seep well field, shows that the concentrations for the last three quarterly reporting periods have been fairly similar with concentrations dropping more on the east side of the well field. Data from May 2002 are shown for comparison.

Recent SNWA sampling in May 2005 of three vegetation monitoring wells completed in Las Vegas Wash alluvium shows that these wells contain less than 14 mg/l perchlorate and that the perchlorate concentrations are already less than 5.5 mg/l (0.03 and 5.2 mg/l in wells WMW6.0N and WMW6.0S, respectively, within 200 feet of the Pabco Erosion Control Structure. In November 2004 WMW5.85S contained 0.044 mg/l but was destroyed in recent flooding. As mapped, the 1 mg/l contour is only about 700 feet east of the Pabco structure.

As shown on Figure 18, the seep stream began its seasonal flow in early November. This is earlier than last year and is the result of a wetter than normal fall and early winter. The last continuous flow in the seep stream occurred on May 20, 2005 and the stream dried up for the summer on June 6<sup>th</sup>, at which time the remaining pool of water contained 4 mg/l perchlorate.

## 5.0 CONCLUSIONS

Perchlorate continues to be effectively captured by the four components of the remediation program. The on-site well field collection has been in operation many years and has fully matured cones of depression. This, coupled with the barrier wall, provides efficient capture in this area. Since October 2002 the Athens Road area well field has been in continuous operation and is maturing into an efficient interception line. Based on Modflow particle tracking, the Athens Road well field continues to capture the majority (as much as 97.5 percent) of available perchlorate. The Seep well field capture and the seep area surface flow make up the remaining portions of the perchlorate recovery system. The Seep well field is advantageously located over the main part of the alluvium channel and is in close proximity to Las Vegas Wash. Capture in this area makes the most immediate impact on Wash perchlorate concentrations. The amount of perchlorate removed by any of the four components depends on perchlorate movement in the groundwater which is influenced by many factors, some of which are beyond KMCLLC control.

The biological treatment plant continues to operate near its 1,000 gallon per minute capacity. Effluent from the plant consistently meets the 18 microgram per liter NPDES perchlorate limit. There were no exceedences of NPDES discharge criteria during the quarter. Efforts are under way to improve effluent clarity by installing a sand filtration unit on the outlet of the bioplant.

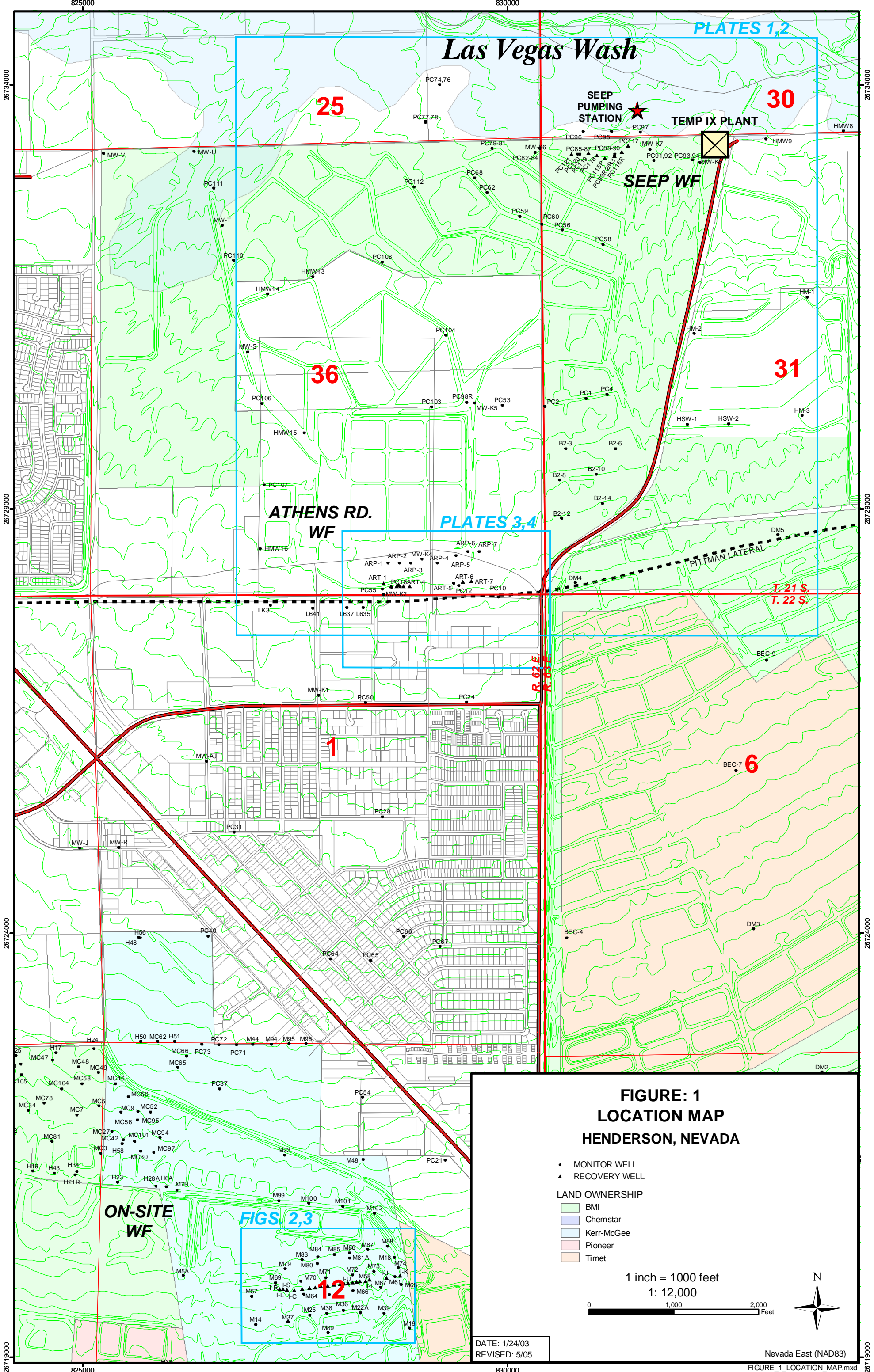
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## 6.0 PROPOSED FUTURE ACTIVITIES

KMCLLC will continue to record water levels in the AOC area on a quarterly basis. Quarterly potentiometric surface maps will be developed as well as perchlorate in groundwater maps. The effect of changing the pumping rates of the recovery wells will be monitored, and responses (i.e.- pump rate adjustments) will be made to ensure optimal drawdown and plume interception at the well fields. Pumping wells will be rehabilitated as necessary. The monitoring plan in current use will be modified, as necessary, to facilitate collection of pertinent data to track the progress of perchlorate capture at the well fields and the seep. The perchlorate concentration in seep area groundwater is continuing to decrease. This may be evidence that we are seeing the front of the “clean line” at the Seep well field. We anticipate that the impact of continued pumping at the Athens Road well field will continue to be observed in the seep area concentrations, modified by discharge activities at COH WRF.

## FIGURES



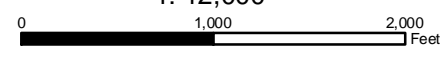


**FIGURE: 1  
LOCATION MAP  
HENDERSON, NEVADA**

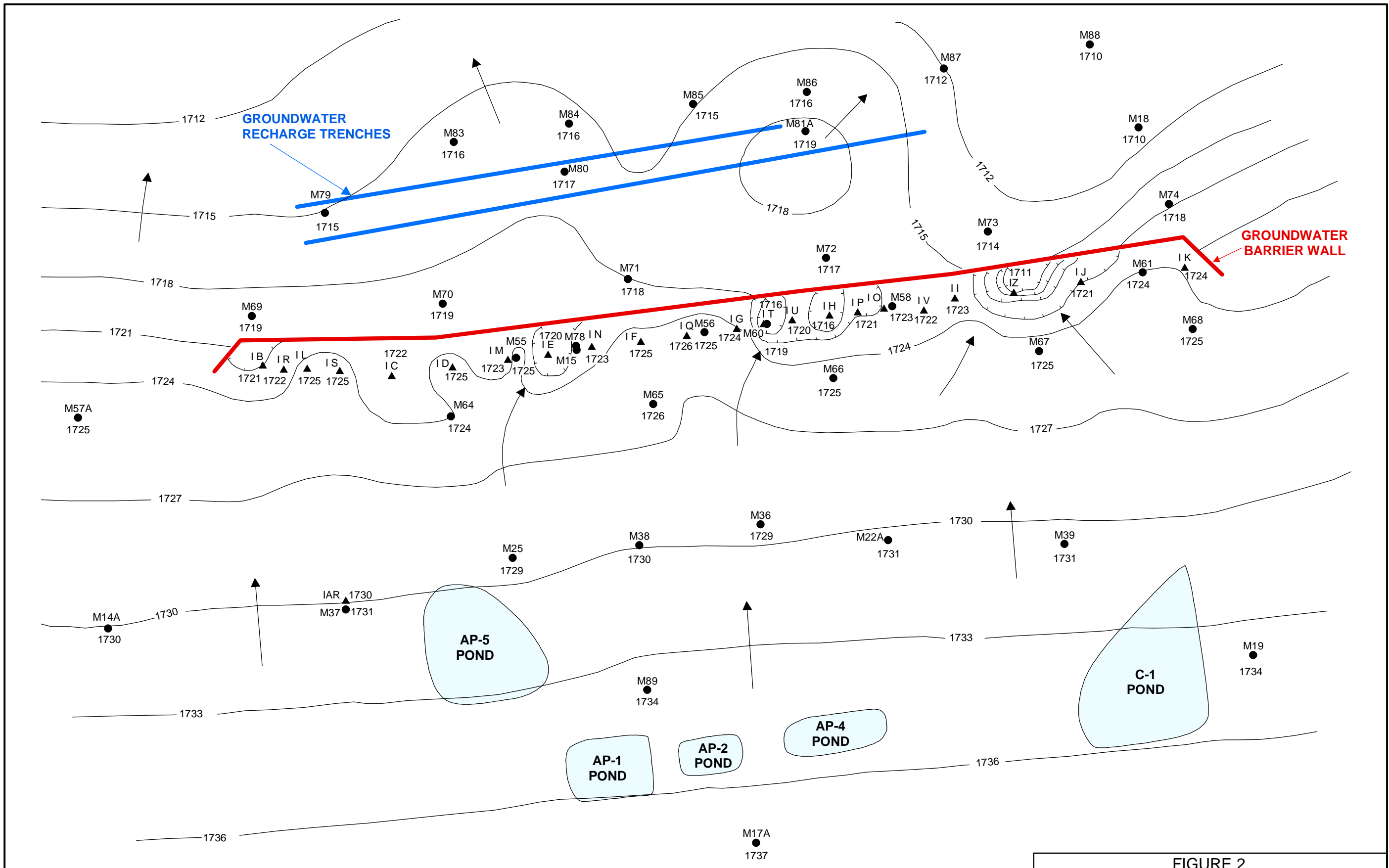
- MONITOR WELL
- ▲ RECOVERY WELL

- LAND OWNERSHIP
- BMI
  - Chemstar
  - Kerr-McGee
  - Pioneer
  - Timet

1 inch = 1000 feet  
1: 12,000

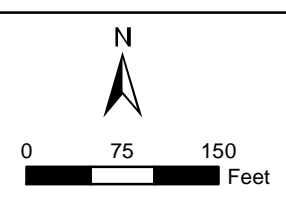


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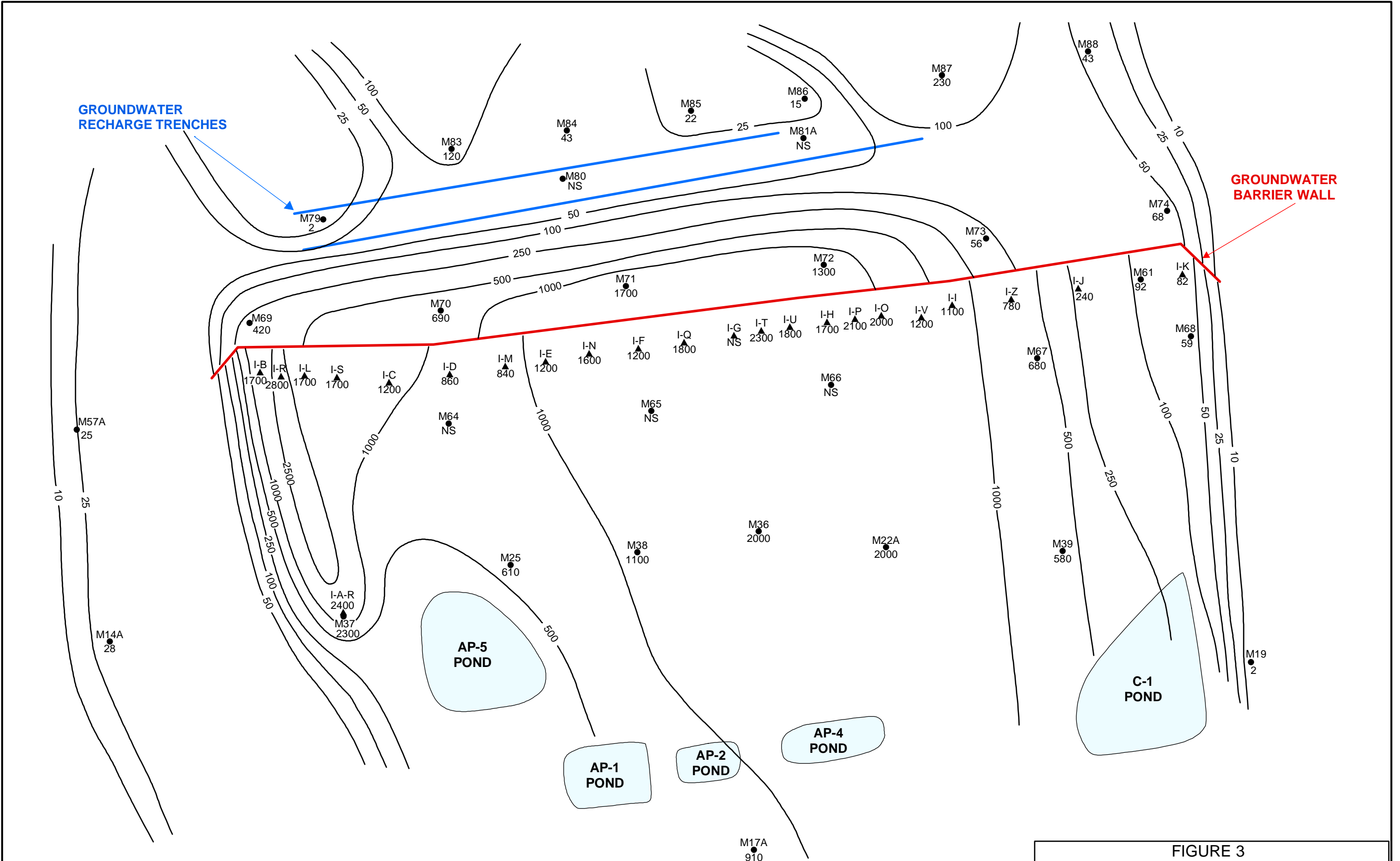


**LEGEND**

- Water Level Well Location
- ▲ Interceptor Well Location
- Potentiometric Surface Contour
- Line (Ft. MSL) Contour Interval = 3 Ft.
- Water Level Data Recorded May 2005
- ← Direction of Groundwater Flow



**FIGURE 2**  
 Kerr-McGee Chemical LLC  
 Henderson, Nevada  
**CONSENT ORDER MONITORING AREA**  
**POTENTIOMETRIC SURFACE MAP**  
 MAY 2005  
 DATE: 6/05

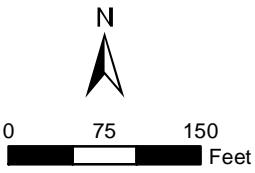


**GROUNDWATER RECHARGE TRENCHES**

**GROUNDWATER BARRIER WALL**

**LEGEND**

- Water Level Well Location (Ref. 1700 Ft. MSL)
- ▲ Interceptor Well Location
- Isoconcentration Contour Line (mg/L)

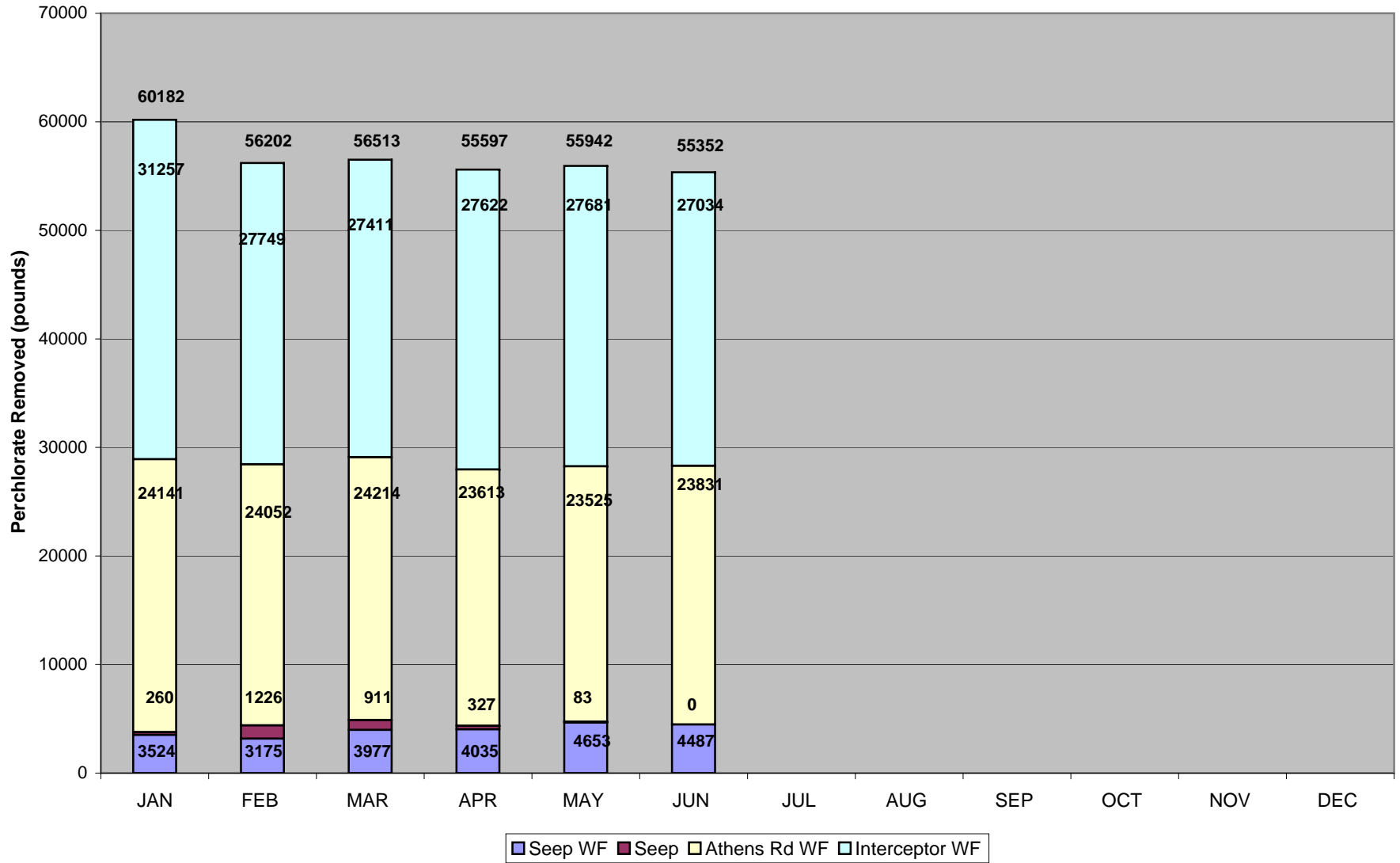


**FIGURE 3**  
 Kerr-McGee Chemical LLC  
 Henderson, Nevada  
 INTERCEPTOR WELL FIELD  
 PERCHLORATE IN GROUNDWATER  
 MAY 2005

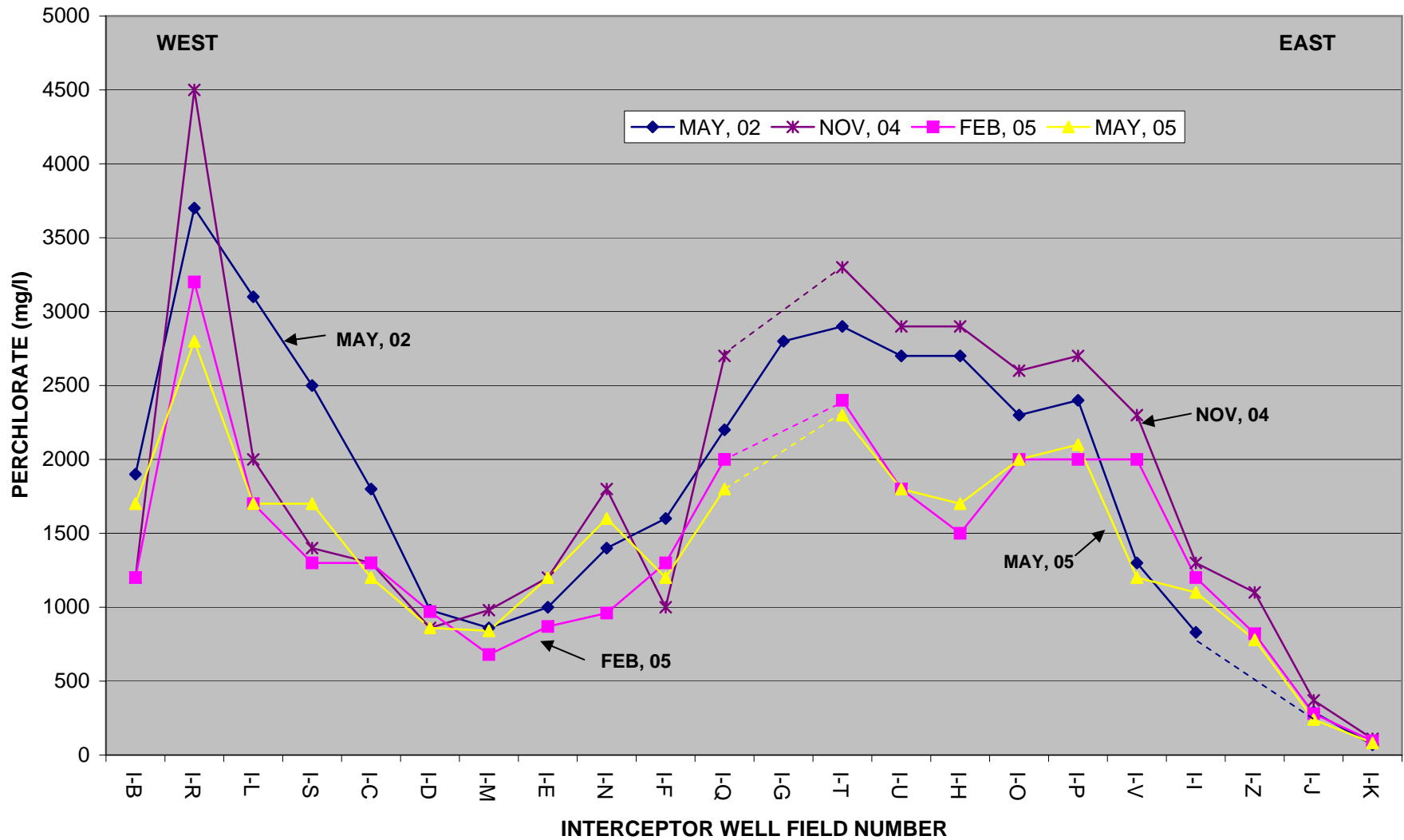
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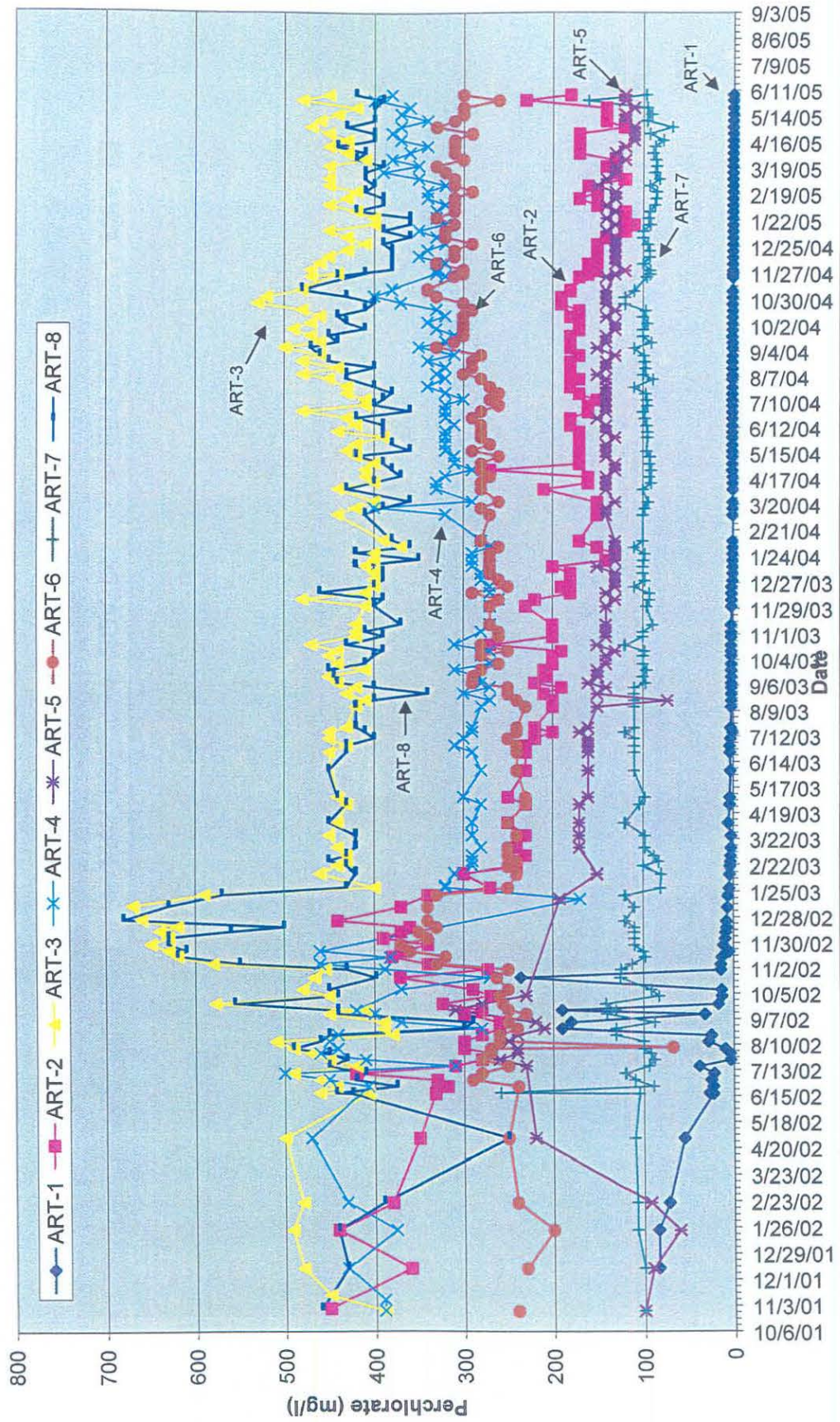
**FIGURE 4: PERCHLORATE REMOVED FROM THE ENVIRONMENT JANUARY TO JUNE 2005**



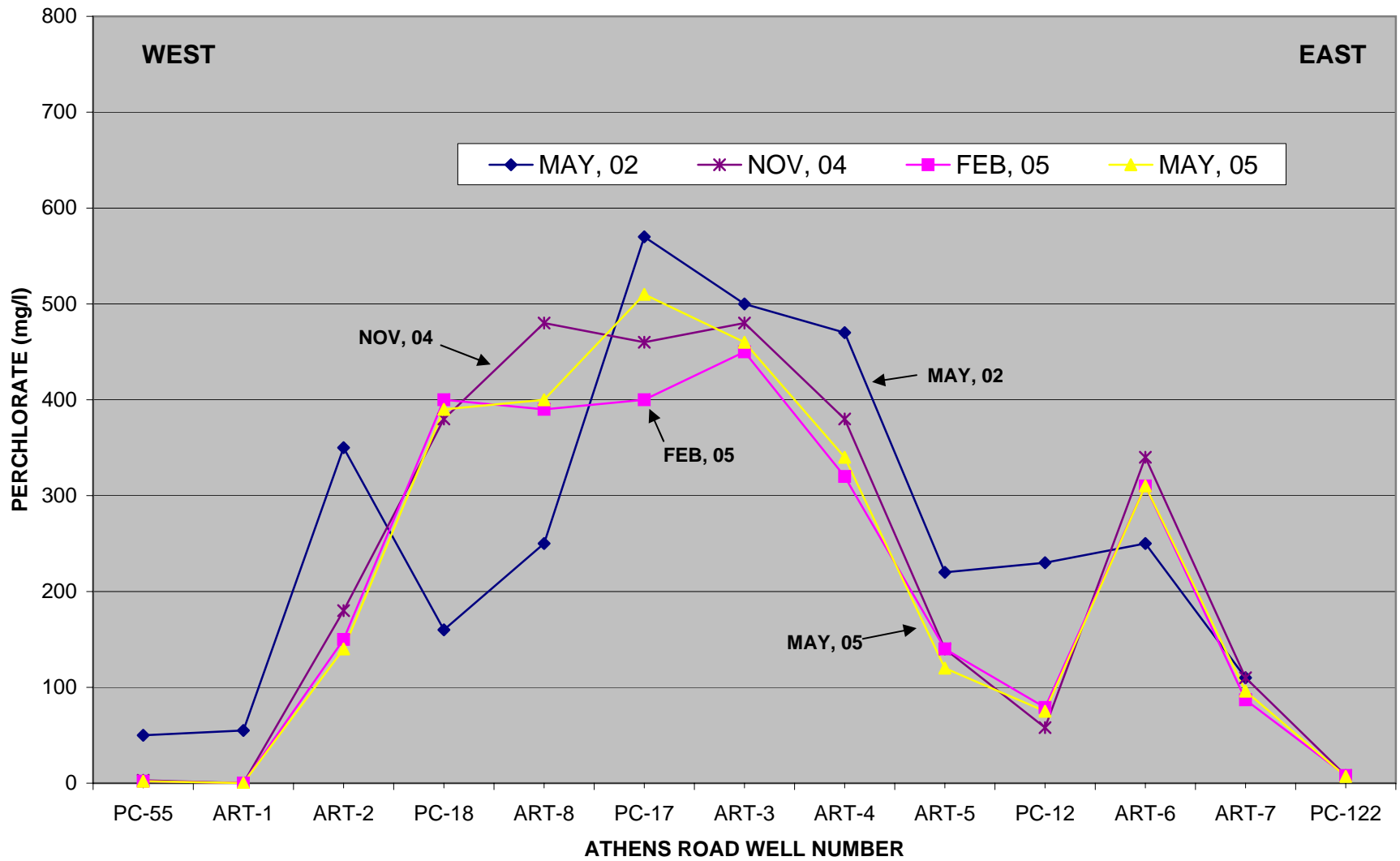
**FIGURE 5: INTERCEPTOR WELL FIELD SECTION GRAPH**



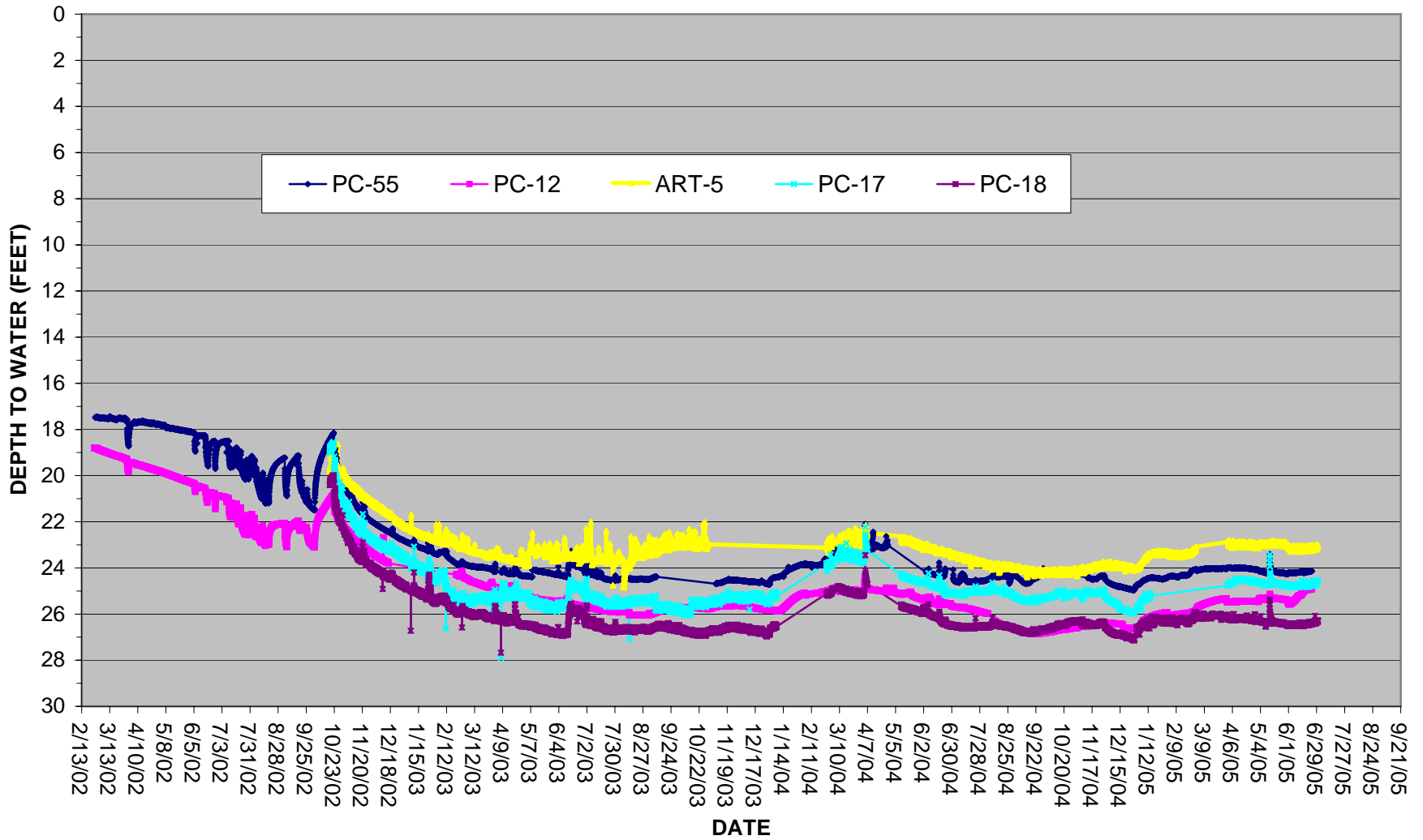
**FIGURE 6: ATHENS ROAD WELL FIELD: PERCHLORATE CONCENTRATIONS**



**FIGURE 7: ATHENS ROAD WELL FIELD SECTION GRAPH**

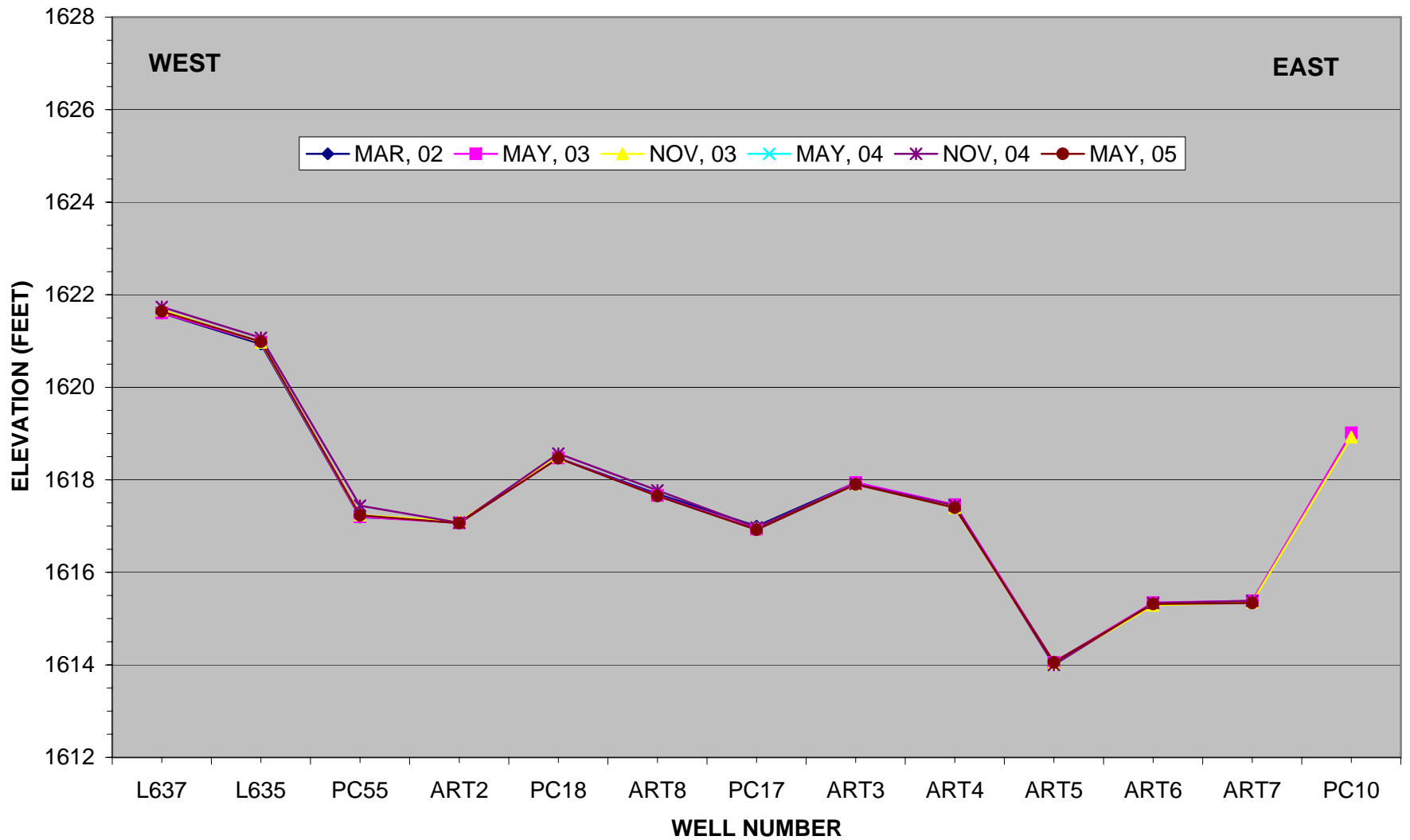


### FIGURE 8: ATHENS ROAD WELLFIELD DRAWDOWN



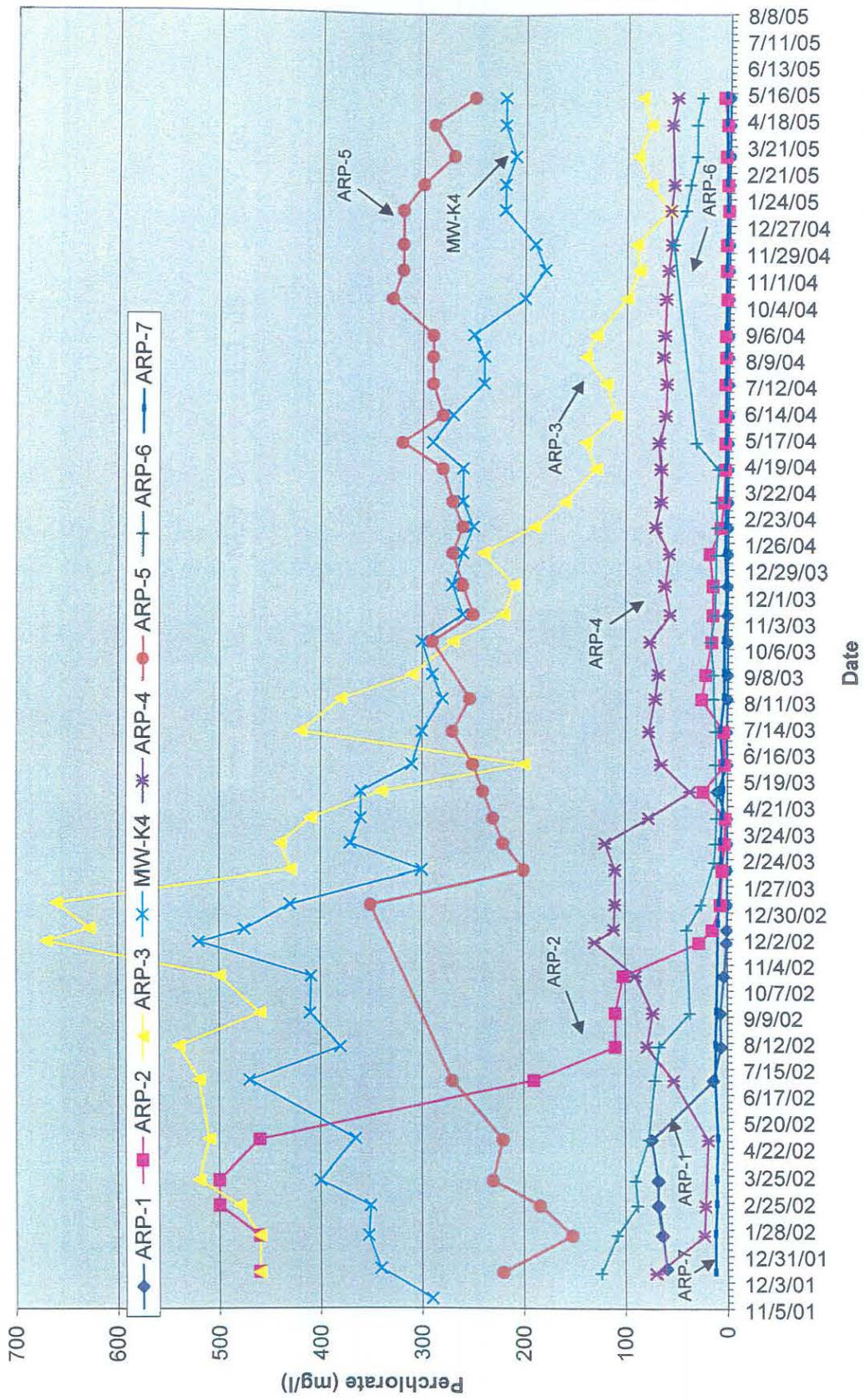


**FIGURE 8A: ATHENS ROAD SUBSIDENCE**

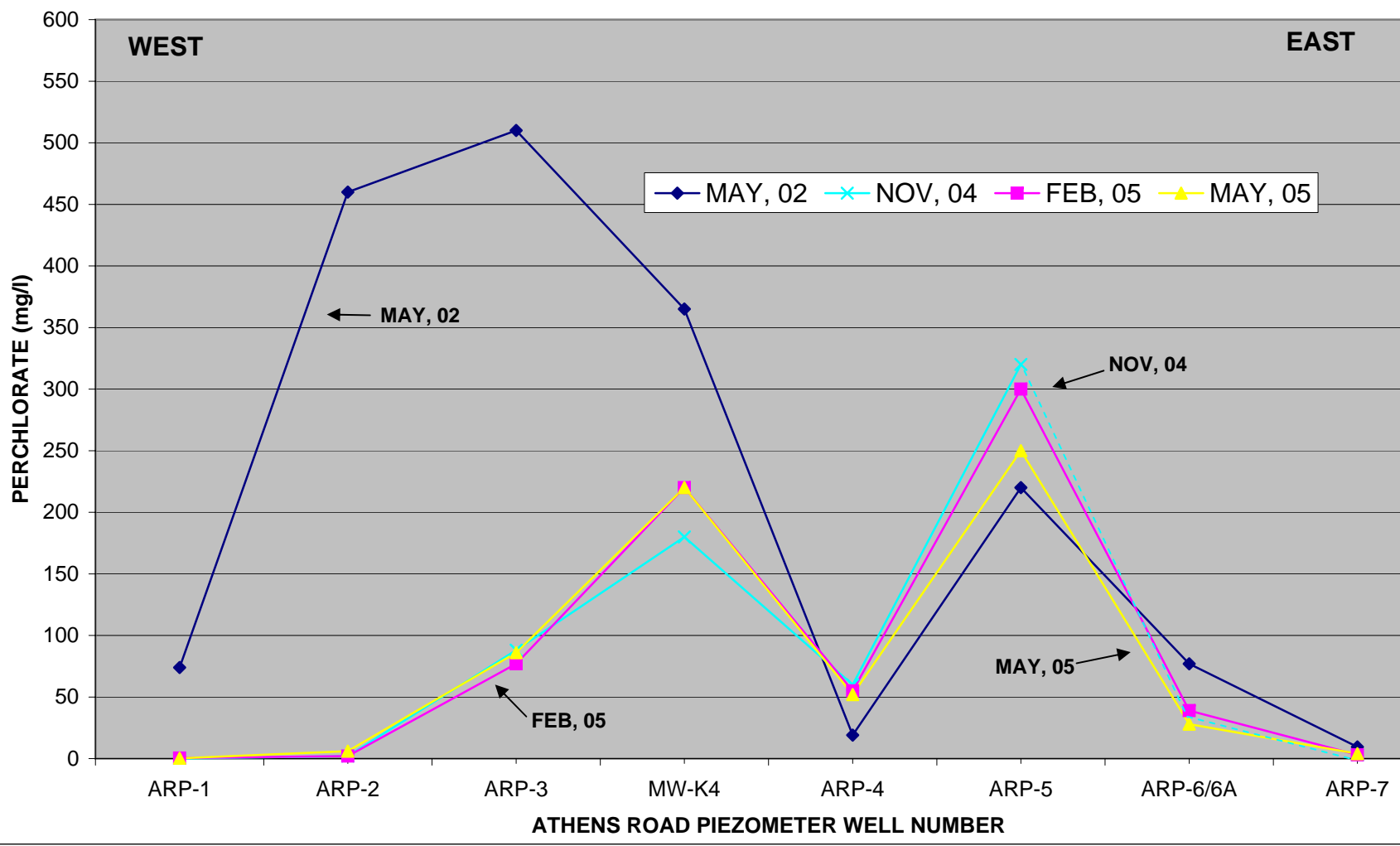




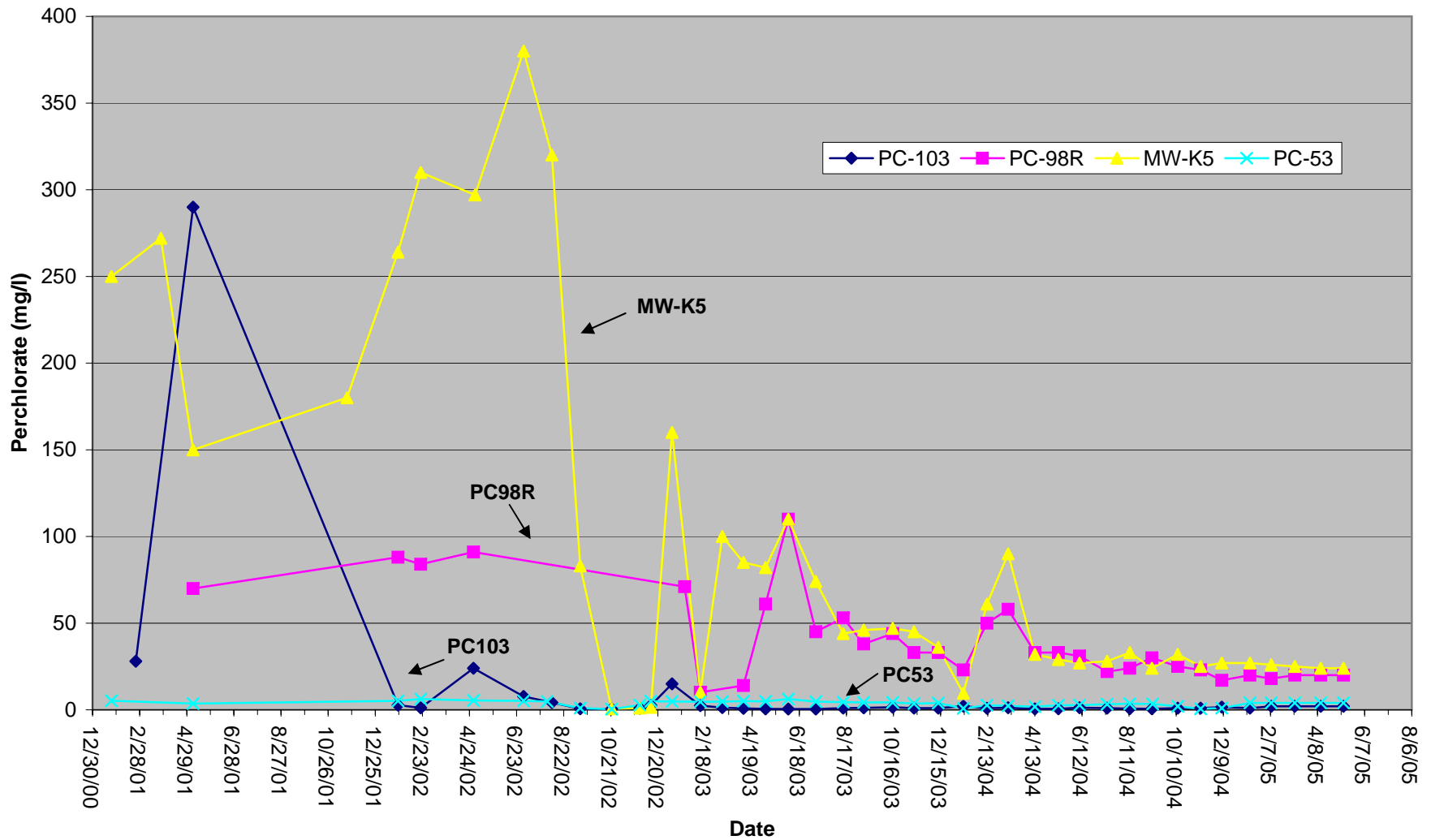
**FIGURE 9: ATHENS ROAD PIEZOMETER WELLS: PERCHLORATE CONCENTRATIONS**



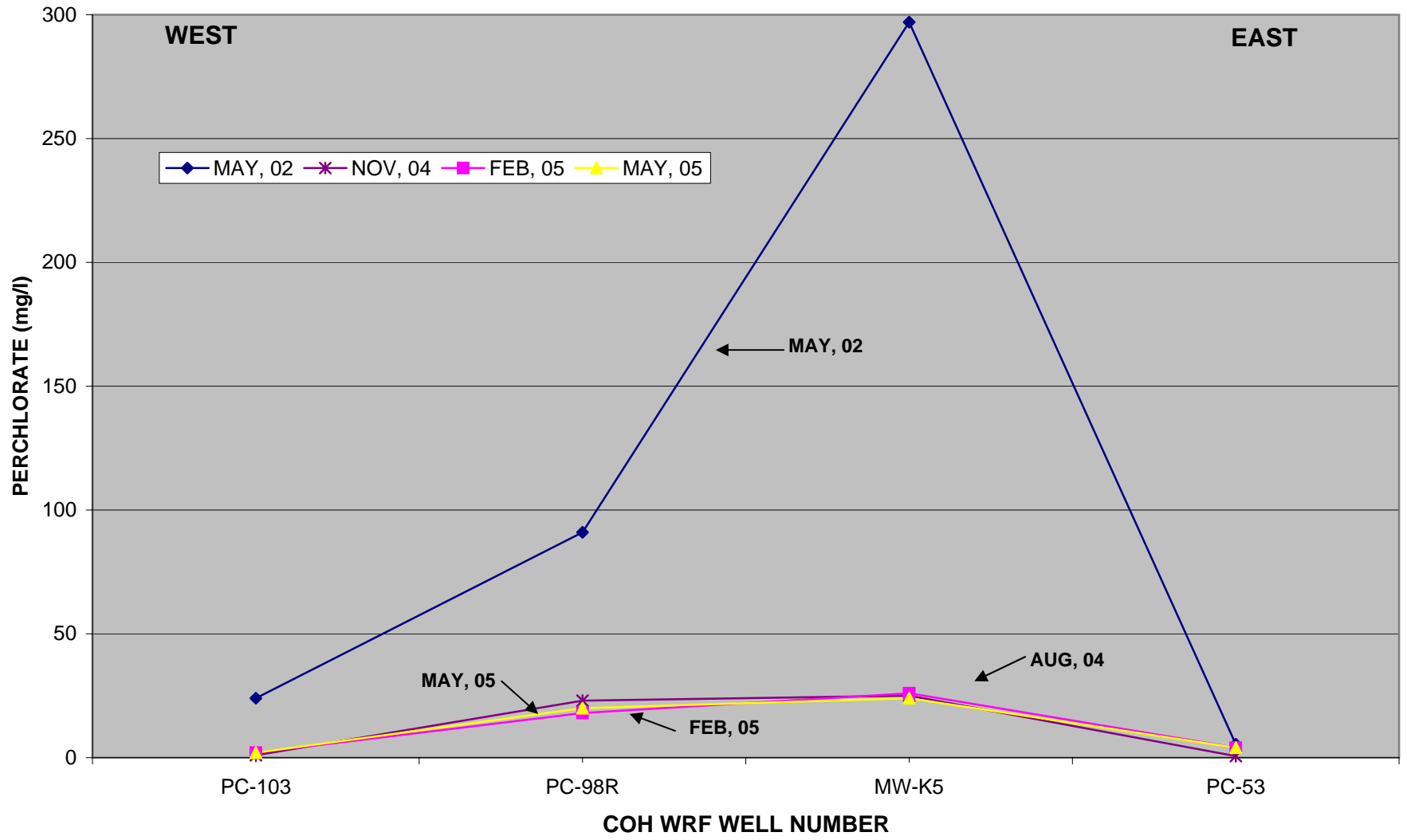
### FIGURE 10: ATHENS ROAD PIEZOMETER WELL LINE SECTION GRAPH



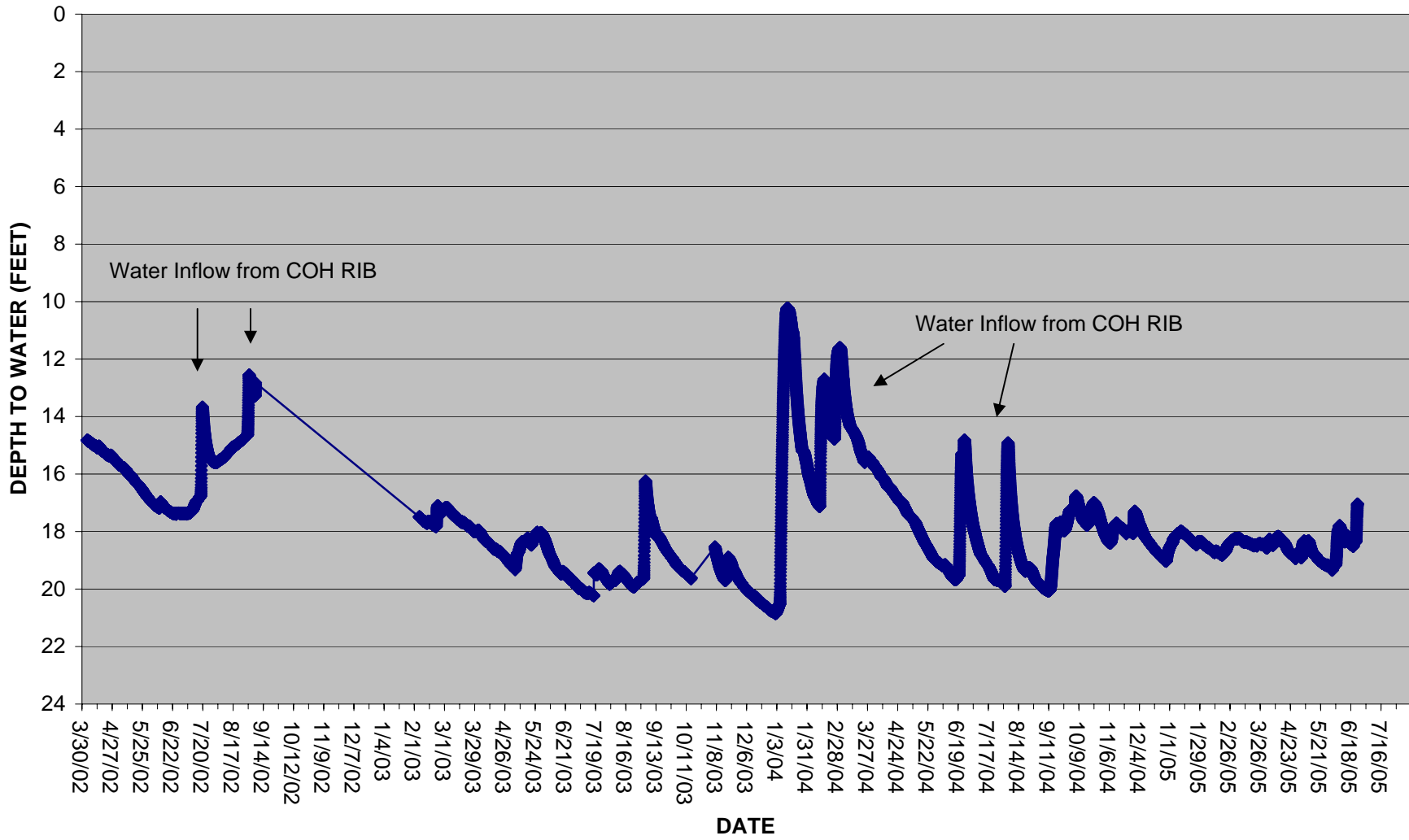
# FIGURE 11: COH WRF WELL LINE: PERCHLORATE CONCENTRATIONS



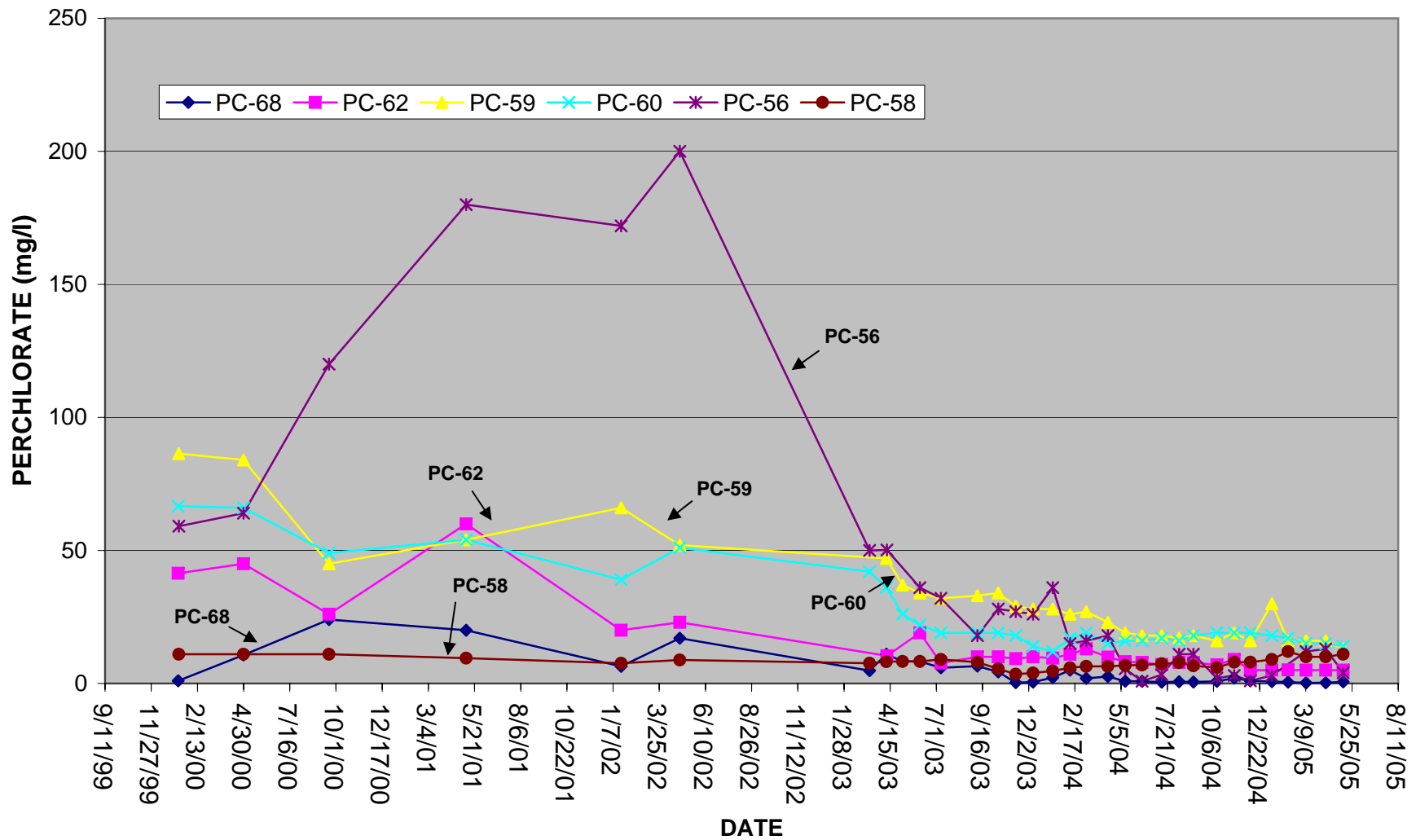
**FIGURE 12: COH WRF WELL LINE SECTION GRAPH**



**FIGURE 13: PC-98R DEPTH TO WATER**

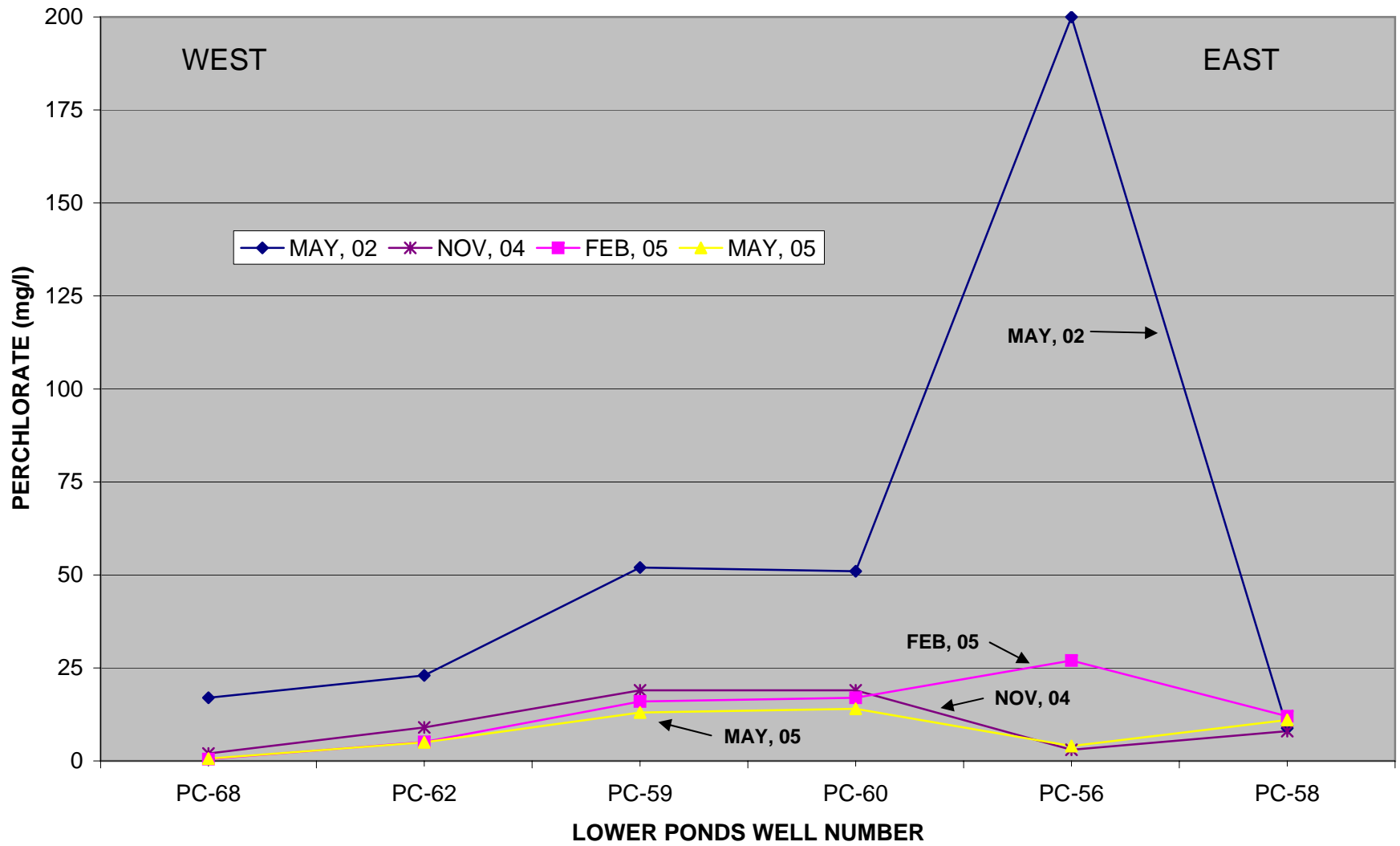


**FIGURE 14: LOWER PONDS TRAVERSE: PERCHLORATE CONCENTRATIONS**

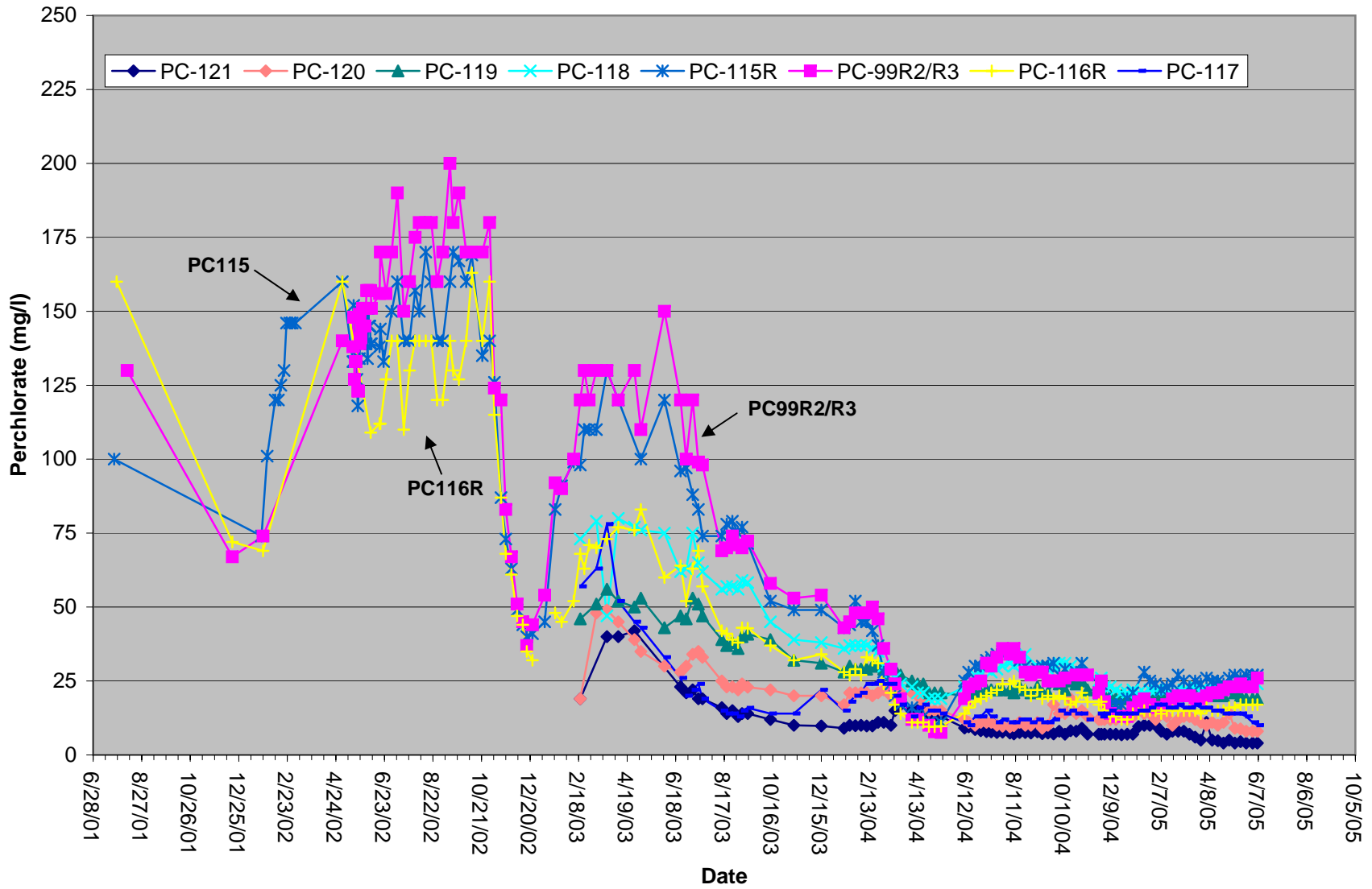




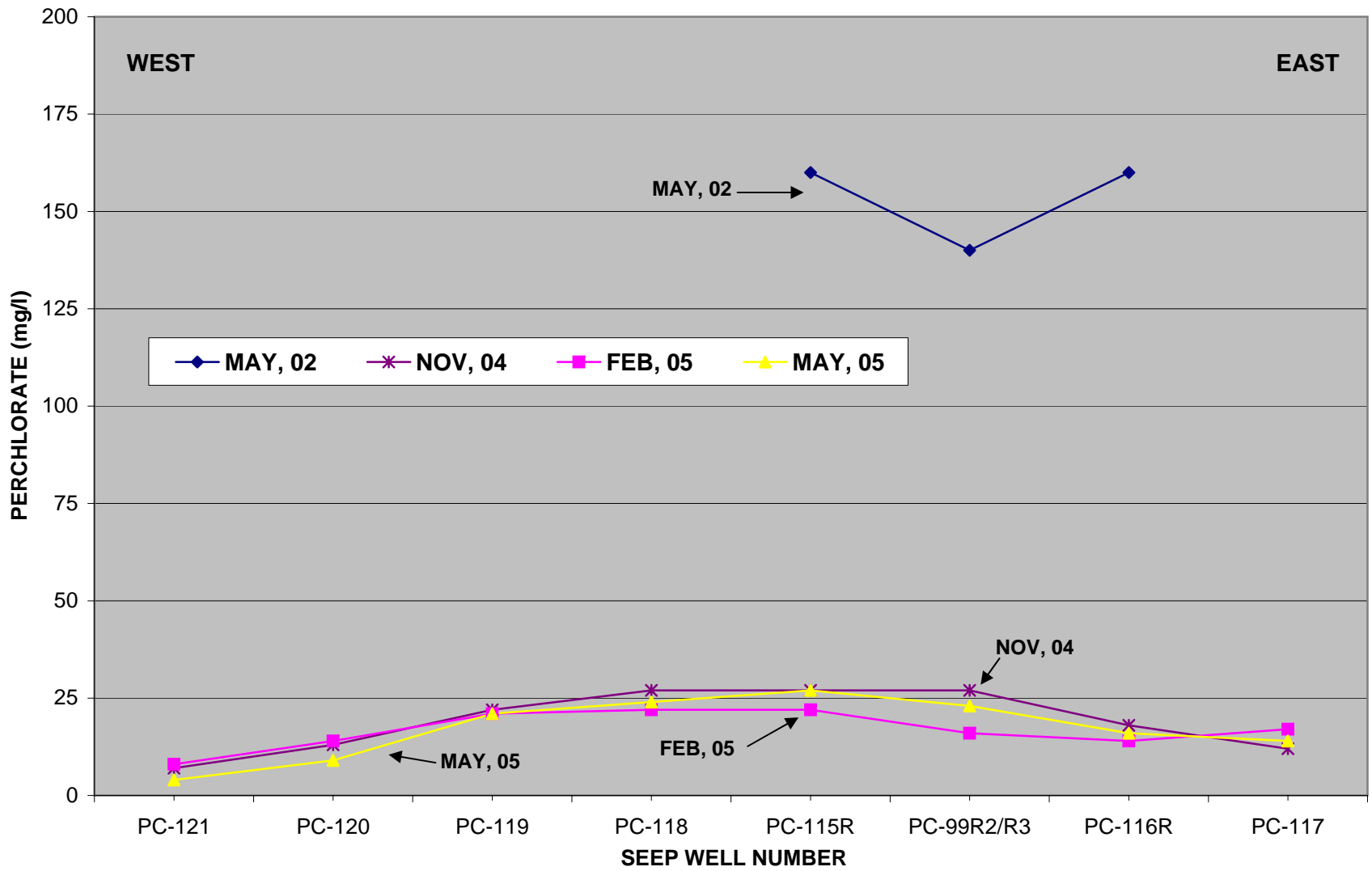
**FIGURE 15: LOWER PONDS SECTION GRAPH**



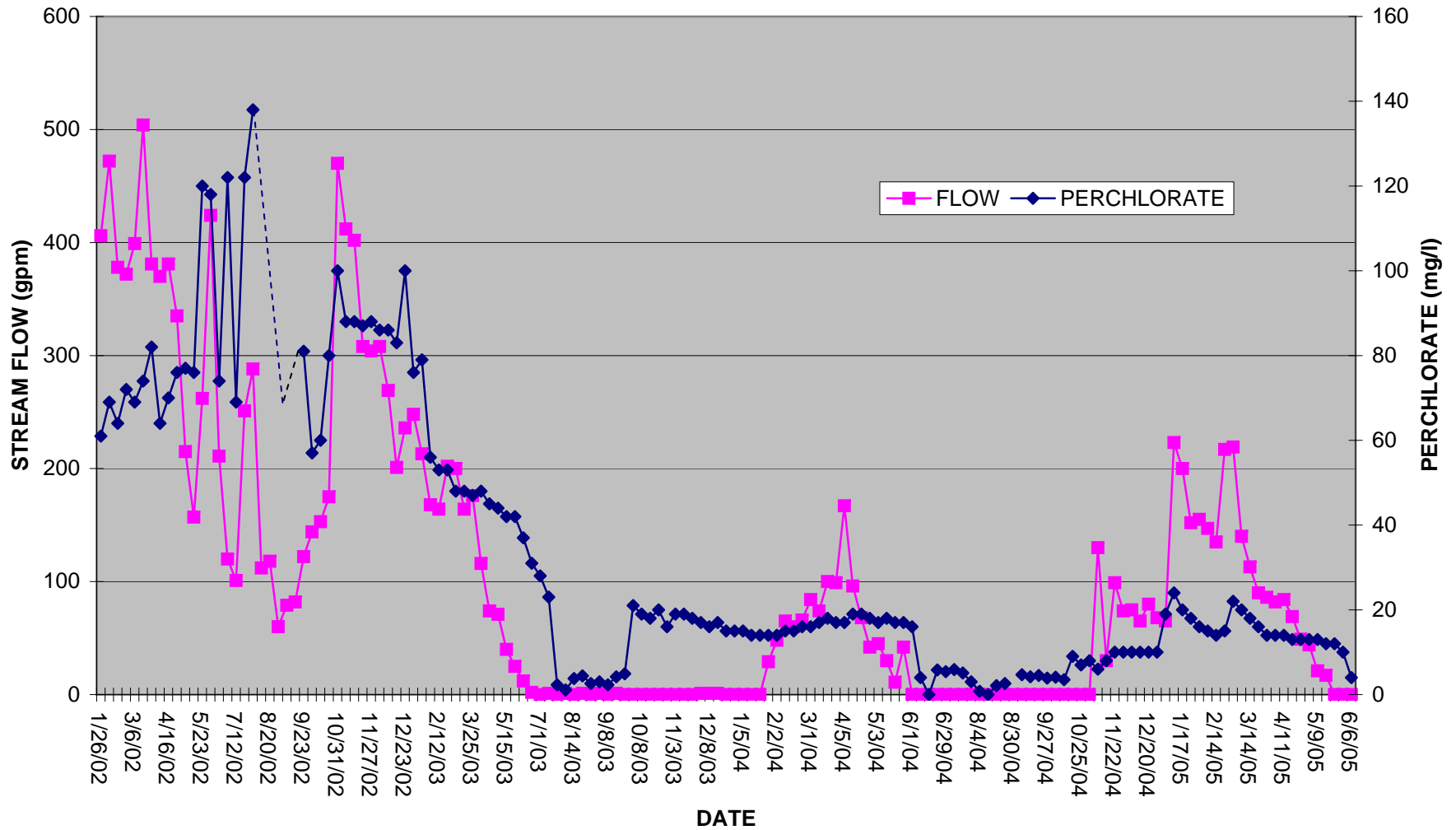
# FIGURE 16: SEEP WELL FIELD: PERCHLORATE CONCENTRATIONS



**FIGURE 17: SEEP WELL FIELD SECTION GRAPH**



### FIGURE 18: SEEP STREAM FLOW VS. PERCHLORATE CONCENTRATION



# Las Vegas Wash

25

30

36

31

R. 62 E.  
R. 63 E.

PITTMAN LATERAL

T. 21 S.  
T. 22 S.

**PLATE: 1**  
**POTENTIOMETRIC SURFACE**  
**BETWEEN THE ATHENS ROAD**  
**WELL FIELD AND THE SEEP**  
**MAY 2005**

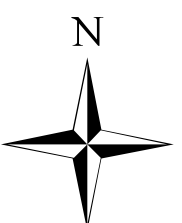
—1586— ISOELEVATION LINE OF POTENTIOMETRIC SURFACE (AMSL) C.I. = 3 FEET  
→ DIRECTION OF GROUNDWATER FLOW

★ SEEP PUMPING STATION  
• MONITOR WELL  
• RECOVERY WELL

LAND OWNERSHIP  
BMI  
Timet

1 inch = 300 feet  
1: 3,600

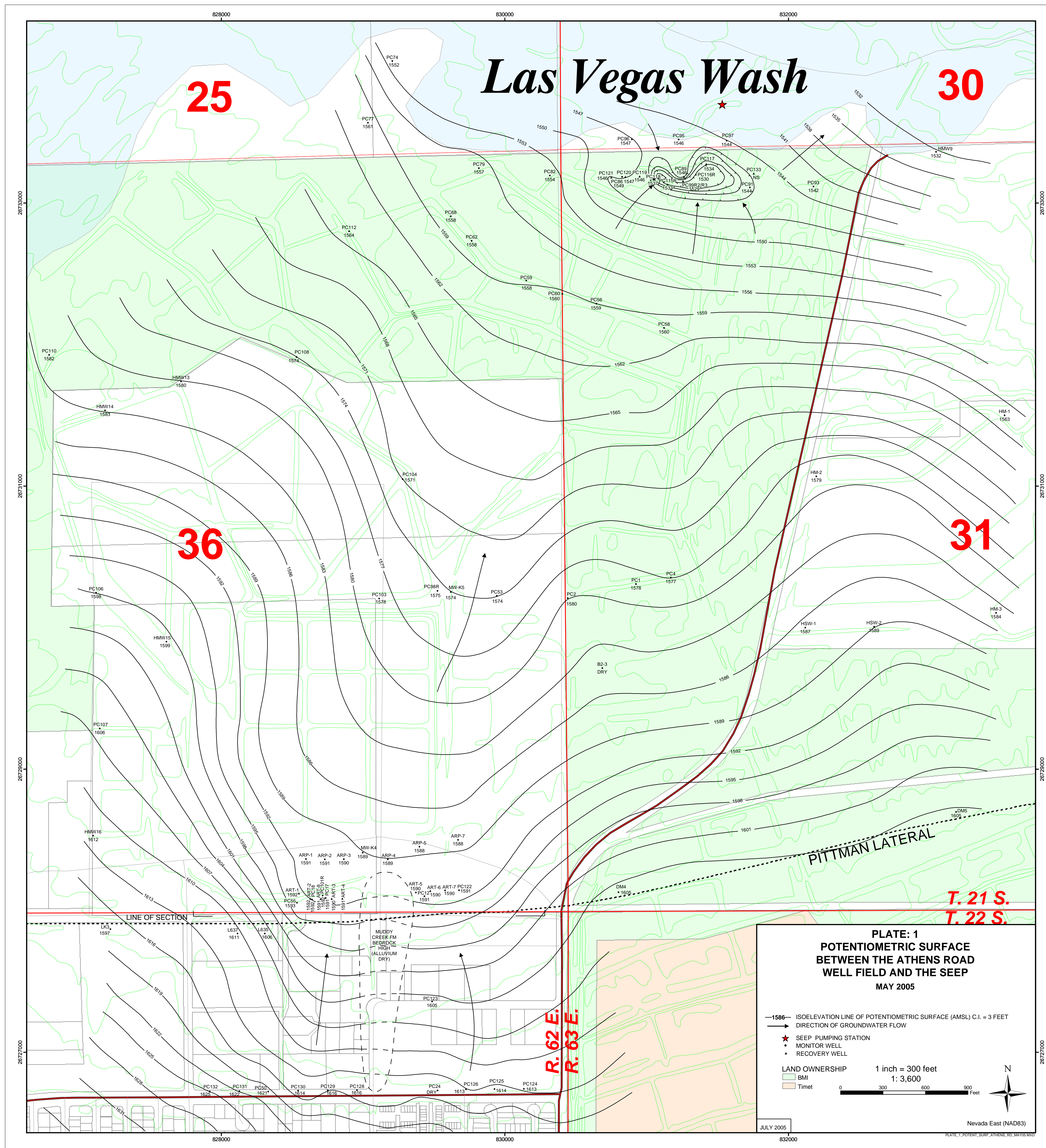
0 300 600 900 Feet



Nevada East (NAD83)

JULY 2005

PLATE\_1\_POTENT\_SURF\_ATHENS\_RD\_MAY05.MXD



# Las Vegas Wash

25

30

36

31

TEMP IX PLANT

PITTMAN LATERAL

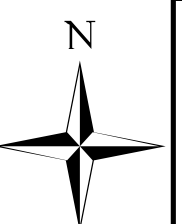
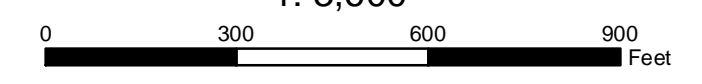
T. 21 S.  
T. 22 S.

PLATE:2  
PERCHLORATE IN GROUNDWATER  
BETWEEN THE ATHENS ROAD  
WELL FIELD AND THE SEEP  
MAY 9, 2005

- 100 — ISOCONCENTRATION CONTOUR (mg/l) (ND = < 0.004 mg/L)
- ★ SEEP PUMPING STATION
- MONITOR WELL
- ▲ RECOVERY WELL

LAND OWNERSHIP  
BMI  
Timet

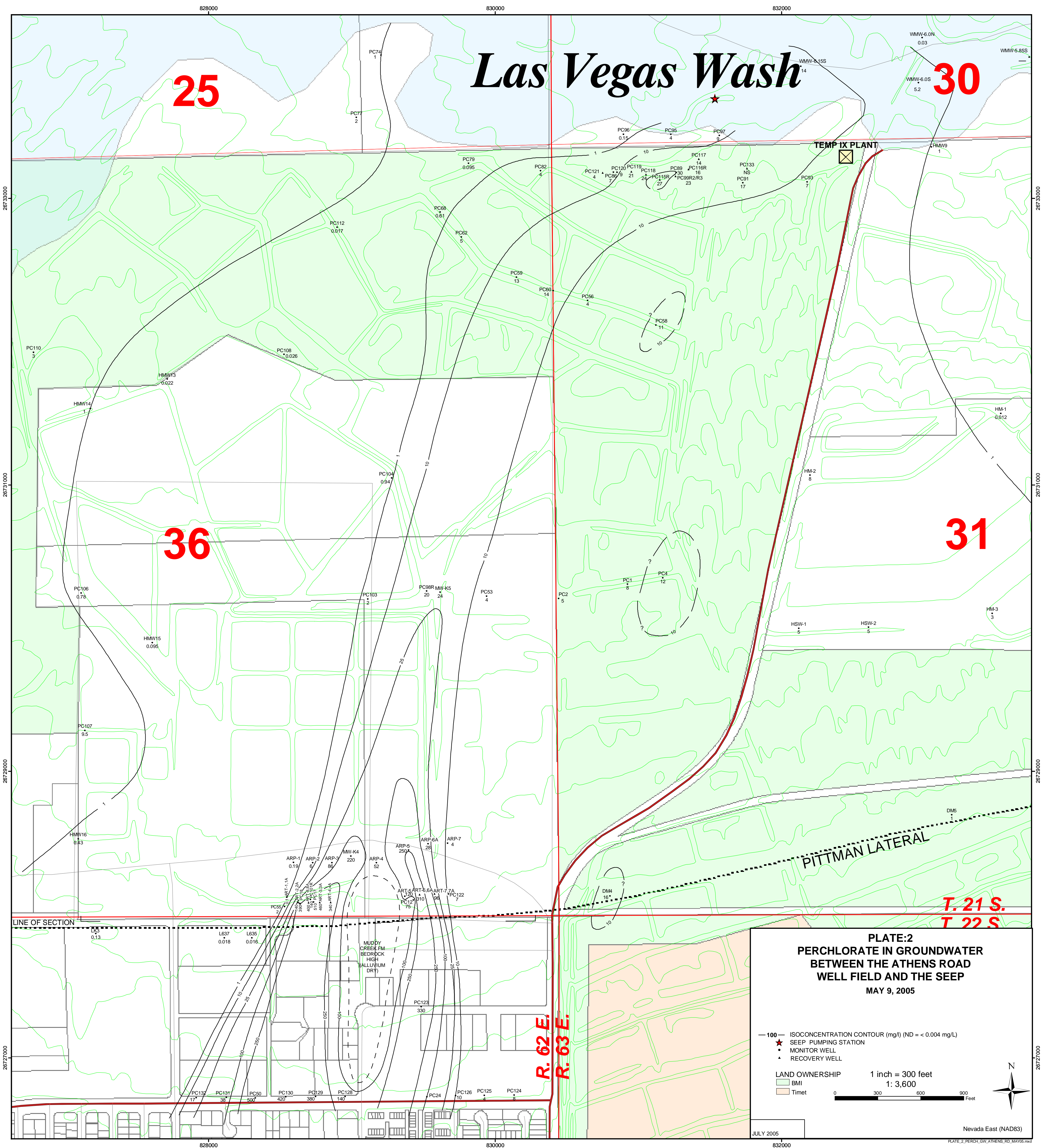
1 inch = 300 feet  
1: 3,600

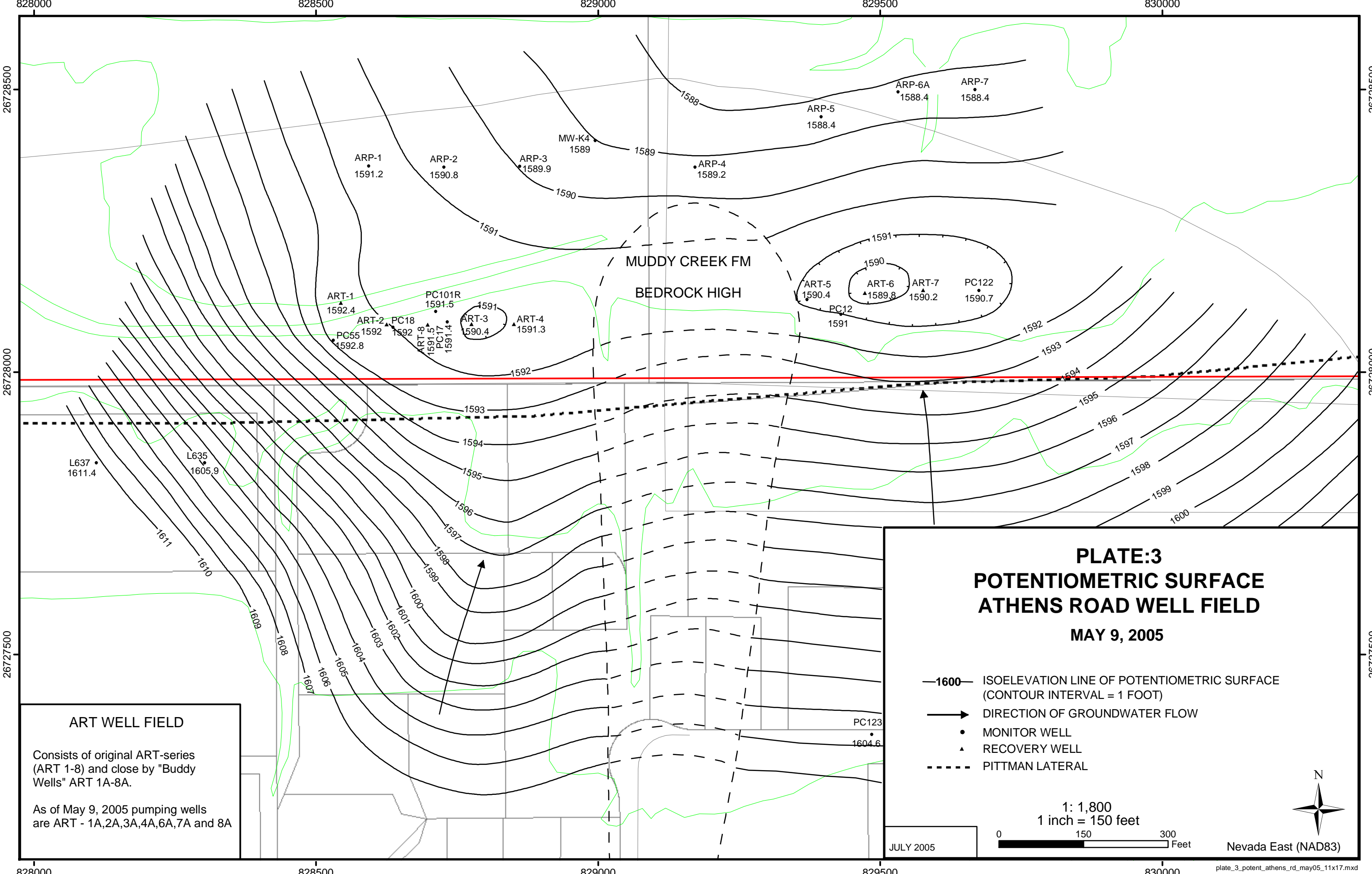


JULY 2005

Nevada East (NAD83)

PLATE 2, PERCHL.GW.ATHENS\_RD\_MAY05.mxd





**ART WELL FIELD**

Consists of original ART-series (ART 1-8) and close by "Buddy Wells" ART 1A-8A.

As of May 9, 2005 pumping wells are ART - 1A,2A,3A,4A,6A,7A and 8A

**PLATE:3**  
**POTENTIOMETRIC SURFACE**  
**ATHENS ROAD WELL FIELD**  
**MAY 9, 2005**

- ISOELEVATION LINE OF POTENTIOMETRIC SURFACE (CONTOUR INTERVAL = 1 FOOT)
- DIRECTION OF GROUNDWATER FLOW
- MONITOR WELL
- RECOVERY WELL
- PITTMAN LATERAL

1: 1,800  
1 inch = 150 feet

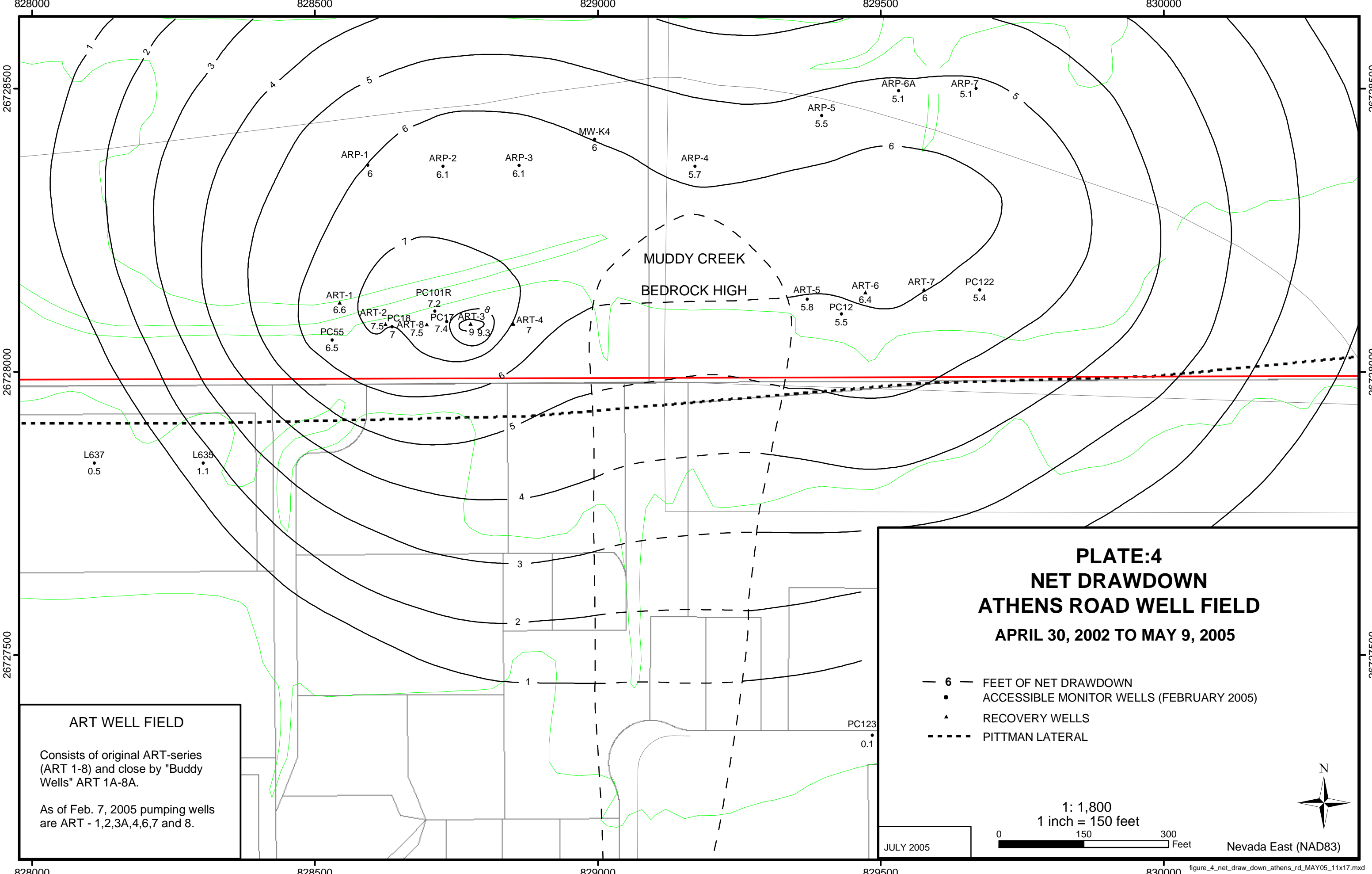
0      150      300  
Feet

N

Nevada East (NAD83)

JULY 2005

plate\_3\_potent\_athens\_rd\_may05\_11x17.mxd



MUDDY CREEK  
BEDROCK HIGH

**PLATE:4**  
**NET DRAWDOWN**  
**ATHENS ROAD WELL FIELD**  
**APRIL 30, 2002 TO MAY 9, 2005**

- 6 — FEET OF NET DRAWDOWN
- ACCESSIBLE MONITOR WELLS (FEBRUARY 2005)
- ▲ RECOVERY WELLS
- - - - PITTMAN LATERAL

**ART WELL FIELD**

Consists of original ART-series (ART 1-8) and close by "Buddy Wells" ART 1A-8A.

As of Feb. 7, 2005 pumping wells are ART - 1,2,3A,4,6,7 and 8.

1: 1,800  
1 inch = 150 feet

0 150 300 Feet



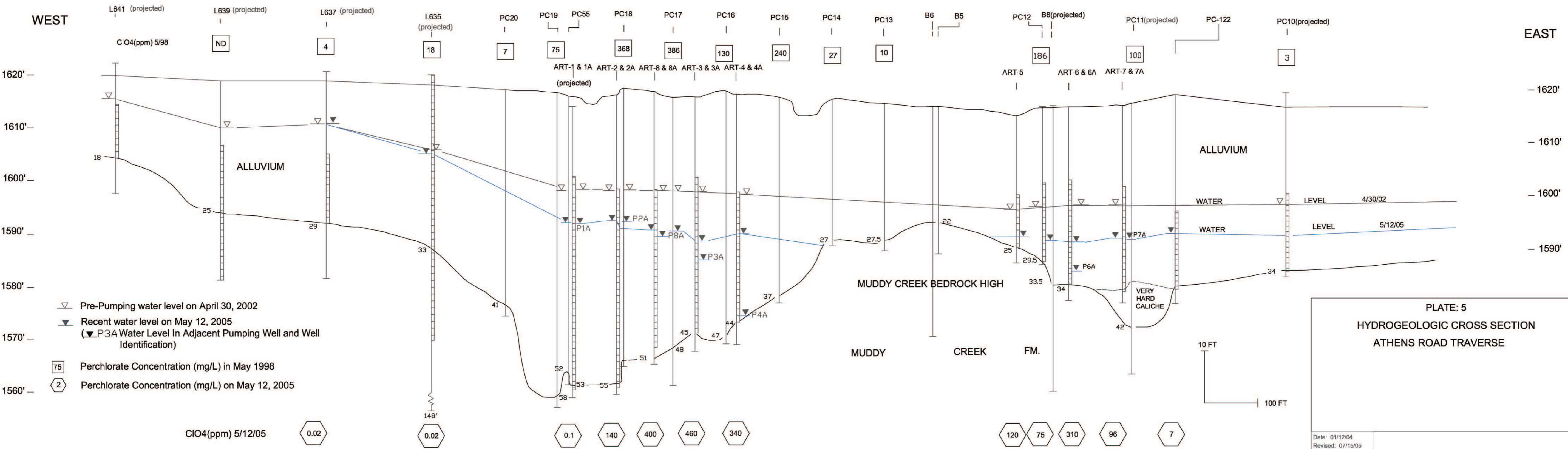
JULY 2005

Nevada East (NAD83)



WEST

EAST



**PLATE: 5**  
**HYDROGEOLOGIC CROSS SECTION**  
**ATHENS ROAD TRAVERSE**

Date: 01/12/04  
 Revised: 07/15/05

plate\_5\_ar\_x\_sect\_w\_e\_may05.dwg

## TABLES

TABLE 1

PERCHLORATE (mg/l) IN SELECTED  
ON-SITE WELLS NEAR THE INTERCEPTOR WELL FIELD  
KMCLLC FACILITY, HENDERSON, NEVADA

WELL	NOV, 2004	FEB, 2005	MAY, 2005
I-A-R	5400	3800	2400
I-B	1200	1200	1700
I-C	1300	1300	1200
I-D	860	970	860
I-E	1200	870	1200
I-F	1000	1300	1200
I-G	NS	NS	
I-H	2900	1500	1700
I-I	1300	1200	1100
I-J	370	280	240
I-K	110	96	82
I-L	2000	1700	1700
I-M	980	680	840
I-N	1800	960	1600
I-O	2600	2000	2000
I-P	2700	2000	2100
I-Q	2700	2000	1800
I-R	4500	3200	2800
I-S	1400	1300	1700
I-T	3300	2400	2300
I-U	2900	1800	1800
I-V	2300	2000	1200
I-Z	1100	820	780
M-19	7	5	2
M-22A	2400	2200	2000
M-25	670	550	2000
M-36	2200	2100	2000
M-37	4200	3400	2300
M-38	1400	1000	1100
M-39	740	610	580
M-68	90	67	59
M-69	460	400	420
M-70	850	800	690

TABLE 1

PERCHLORATE (mg/l) IN SELECTED  
ON-SITE WELLS NEAR THE INTERCEPTOR WELL FIELD  
KMCLLC FACILITY, HENDERSON, NEVADA

WELL	NOV, 2004	FEB, 2005	MAY, 2005
M-71	1600	1900	1700
M-72	2000	750	1300
M-73	44	75	56
M-74	79	76	68
M-79	13	12	2
M-83	180	110	120
M-84	25	35	43
M-85	21	10	22
M-86	24	15	15
M-87	360	200	230
M-88	41	43	43
M-89	960	1100	970

NS = Not Sampled  
NA = Not Available

**TABLE 2**  
**PERCHLORATE (mg/l) IN**  
**SELECTED OFF-SITE MONITOR WELLS**  
**HENDERSON, NEVADA**

WELL	NOV, 2004	FEB, 2005	MAY, 2005
ARP-1	0.007	0.42	0.19
ARP-2	2	2	6
ARP-3	88	77	86
ARP-4	60	55	52
ARP-5	320	300	250
ARP-6A	NS	39	28
ARP-7	3	3	4
ART-1	0.18	0.084	0.1
ART-2	180	150	140
ART-3	480	450	460
ART-4	380	320	340
ART-5	140	140	120
ART-6	340	310	310
ART-7	110	87	96
ART-8	480	390	400
L635	<0.004	0.01	0.016
L637	0.007	0.011	0.018
MW-K4	180	220	220
MW-K5	25	26	24
PC12	58	79	75
PC17	460	400	510
PC18	380	400	390
PC55	3	2	2
PC53	0.6	4	3
PC56	3	27	4
PC58	8	12	11
PC59	19	16	13
PC60	19	17	14
PC62	9	5.1	5
PC68	2	0.49	0.61

**TABLE 2**  
**PERCHLORATE (mg/l) IN**  
**SELECTED OFF-SITE MONITOR WELLS**  
**HENDERSON, NEVADA**

WELL	NOV, 2004	FEB, 2005	MAY, 2005
PC86	10	13	7
PC89	30	27	30
PC91	19	19	17
PC95	1	4	4
PC97	3	8	9
PC98R	23	18	20
PC99R2/R3	27	16	23
PC101R	240	370	140
PC103	1	2	2
PC115R	27	22	27
PC116R	18	14	16
PC117	12	17	14
PC118	27	22	24
PC119	22	21	21
PC120	13	14	9
PC121	7	8	4
PC122	8	8	7

NS = Not Sampled

**TABLE 3**

**PERCHLORATE REMOVED FROM THE  
ENVIRONMENT  
HENDERSON, NEVADA**

<b>DATE</b>	<b>SEEP WELLS AND SEEP (lbs/day)</b>	<b>ATHENS RD WELL FIELD (lbs/day)</b>	<b>INTERCEPTOR WELL FIELD (lbs/day)</b>	<b>TOTAL (lbs/day)</b>	<b>TOTAL TONS REMOVED (per month)</b>
OCT 2002*	495	331	1402	2228	34.5
NOV 2002	422	1001	1146	2569	38.5
DEC 2002	208	1164	1292	2664	41.3
JAN 2003	335	1074	1467	2876	44.6
FEB 2003	570	783	1060	2413	33.8
MAR 2003**	485	806	1067	2358	36.5
APR 2003	713	713	1033	2460	36.9
MAY 2003	703	729	1148	2581	40.0
JUN 2003	686	907	1098	2691	40.4
JUL 2003	594	755	1034	2383	36.9
AUG 2003	452	741	999	2192	34.0
SEP 2003	417	770	937	2124	31.9
OCT 2003	370	769	1003	2142	33.2
NOV 2003	337	713	949	1999	30.0
DEC 2003	321	751	932	2005	31.1
JAN 2004	305	689	953	1947	30.2
FEB 2004	311	630	895	1836	26.6
MAR 2004	221	743	931	1895	29.4
APR 2004	151	733	849	1733	26.0
MAY 2004	126	765	904	1795	26.9
JUN 2004	157	754	994	1905	28.6
JUL 2004	195	757	968	1920	29.8
AUG 2004	201	805	914	1920	29.8
SEP 2004	169	835	981	1985	29.8
OCT 2004	262	799	1020	2081	31.2
NOV 2004	168	814	1032	2014	30.2
DEC 2004	122	816	1002	1940	30.1
JAN 2005	122	811	1008	1941	30.1
FEB 2005	157	859	991	2007	28.1
MAR 2005	158	781	884	1823	28.3
APR 2005	145	787	921	1853	27.8
MAY 2005	153	759	893	1805	28.0
JUN 2005	150	794	901	1845	28.6

\* Athens Rd Recovery Wells begin full time operation on 10/22/02

\*\* Five new seep area recovery wells begin operation on 3/24/03

**TABLE 4**

**PUMPING RATES FROM THE  
ATHENS ROAD WELL FIELD  
6/30/2005  
HENDERSON, NEVADA**

<b>WELL</b>	<b>FLOW (GPM)</b>
ART-1	NP
ART-1A	21
ART-2	NP
ART-2A	61
ART-3	NP
ART-3A	27
ART-4	NP
ART-4A	12
ART-6	NP
ART-6A	12
ART-7	NP
ART-7A	29
ART-8	NP
ART-8A	70
<b>TOTAL FLOW</b>	<b>232</b>

NP = Not pumping on 6/30/05



**APPENDIX A**  
**GROUNDWATER ELEVATIONS OF SELECTED**  
**ON-SITE WELLS**

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA FACILITY  
 GROUNDWATER ELEVATIONS  
 SELECTED ON-SITE WELLS**

TOC--->	I-B 1752.67		I-C 1752.78		I-D 1752.66		I-E 1752.36		I-F 1749.7	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
4/27/98	43.18	1707.51	42.73	1707.71	32.15	1718.39	33.22	1717.00	40.74	1706.84
9/14/98	42.73	1707.96	41.13	1709.31	44.41	1706.13	37.15	1713.07	40.70	1706.88
12/15/98	42.86	1707.83	41.10	1709.34	44.50	1706.04	35.63	1714.59	40.98	1706.60
2/4/99	43.21	1707.48	43.94	1706.50	44.64	1705.90	34.15	1716.07	41.32	1706.26
3/24/99	42.80	1707.89	43.90	1706.54	44.62	1705.92	36.00	1714.22	41.50	1706.08
5/4/99	42.10	1708.59	43.70	1706.74	43.87	1706.67	39.65	1710.57	40.56	1707.02
8/9/99	42.54	1708.15	43.37	1707.07	44.80	1705.74	35.50	1714.72	41.04	1706.54
11/8/99	43.54	1707.15	34.49	1715.95	44.32	1706.22	36.85	1713.37	44.00	1703.58
1/31/00	44.00	1706.69	35.32	1715.12	38.55	1711.99	36.62	1713.60	44.80	1702.78
5/1/00	43.19	1707.50	43.62	1706.82	43.42	1707.12	34.50	1715.72	32.81	1714.77
9/18/00			43.75	1706.69	41.47	1709.07	45.25	1704.97	43.92	1703.66
11/13/00	44.20	1706.49	43.70	1706.74	41.36	1709.18	45.10	1705.12	41.80	1705.78
2/1/01	42.33	1708.36	43.85	1706.59	41.41	1709.13	45.32	1704.90	44.42	1703.16
5/1/01	43.48	1707.21			41.95	1708.59	45.42	1704.80		
9/1/01	39.70	1710.99	44.15	1706.29	42.20	1708.34	46.30	1703.92	41.25	1706.33
11/1/01	40.68	1710.01	38.23	1712.21	41.50	1709.04	36.55	1713.67	29.50	1718.08
3/1/02	40.44	1710.25	44.00	1706.44	48.48	1702.06	43.00	1707.22	29.10	1718.48
5/1/02	31.31	1719.38	42.00	1708.44	39.80	1710.74	43.20	1707.02	27.80	1719.78
9/9/02	43.26	1709.41	44.45	1708.33	40.51	1712.15	41.20	1711.16	29.68	1720.02
12/9/02	39.66	1713.01	36.29	1716.49	30.93	1721.73	36.37	1715.99	27.40	1722.30
1/20/03	40.02	1712.65	36.78	1716.00	35.92	1716.74	38.92	1713.44	27.95	1721.75
5/5/03	42.75	1709.92	36.44	1716.34	40.45	1712.21	38.10	1714.26	27.60	1722.10
7/9/03	30.67	1722.00	30.90	1721.88	31.35	1721.31	30.70	1721.66	27.18	1722.52
8/13/03	33.80	1718.87	39.30	1713.48	39.40	1713.26	45.10	1707.26	28.00	1721.70
9/8/03	31.11	1721.56	34.01	1718.77	32.93	1719.73	37.70	1714.66	27.07	1722.63
10/14/03	40.03	1712.64	40.92	1711.86	40.13	1712.53	45.22	1707.14	28.00	1721.7
11/12/03	39.38	1713.29	40.78	1712.00	40.47	1712.19	45.15	1707.21	28.27	1721.43
12/8/03	41.09	1711.58	40.61	1712.17	40.54	1712.12	45.24	1707.12	28.61	1721.09
1/9/04	43.62	1709.05	41.18	1711.6	40.53	1712.13	44.89	1707.47	29.04	1720.66
2/4/04	43.63	1709.04	41.81	1710.97	41.60	1711.06	45.03	1707.33	29.29	1720.41
3/15/04	32.60	1720.07	42.37	1710.41	39.94	1712.72	45.34	1707.02	29.66	1720.04
4/1/04	32.41	1720.26	29.66	1723.12	31.70	1720.96	43.18	1709.18	28.37	1721.33
5/3/04	32.95	1719.72	43.36	1709.42	31.16	1721.50	40.12	1712.24	27.89	1721.81
6/10/04	33.78	1718.89	42.18	1710.60	31.02	1721.64	38.81	1713.55	27.7	1722.00
7/12/04	37.36	1715.31	44.51	1708.27	43.19	1709.47	43.6	1708.76	29.29	1720.41
8/4/04	34.18	1718.49	38.28	1714.50	37.77	1714.89	39.04	1713.32	28.08	1721.62
9/7/04	31.61	1721.06	44.34	1708.44	40.11	1712.55	45.31	1707.05	29.06	1720.64
10/12/04	43.59	1709.08	44.34	1708.44	41.39	1711.27	45.18	1707.18	29.32	1720.38
11/10/04	43.27	1709.4	44.34	1708.44	40.52	1712.14	45.18	1707.18	28.33	1721.37
12/6/04	43.24	1709.43	44.34	1708.44	41.61	1711.05	45.21	1707.15	27.73	1721.97
1/8/05	42.93	1709.74	39.42	1713.36	30.76	1721.90	40.71	1711.65	26.99	1722.71
2/1/05	43.13	1709.54	37.08	1715.70	30.27	1722.39	45.16	1707.20	26.64	1723.06
3/10/05	33.09	1719.58	30.51	1722.27	28.74	1723.92	32.21	1720.15	25.66	1724.04
4/11/05	31.91	1720.76	30.66	1722.12	27.94	1724.72	32.23	1720.13	25.40	1724.30
5/3/05	31.39	1721.28	31.19	1721.59	27.93	1724.73	32.28	1720.08	24.83	1724.87
6/15/05	30.81	1721.86	31.64	1721.14	27.78	1724.88	33.44	1718.92	24.51	1725.19

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA FACILITY  
 GROUNDWATER ELEVATIONS  
 SELECTED ON-SITE WELLS**

TOC-->	I-G 1752.5		I-H 1753.21		I-I 1745.5		I-J 1750.07		I-K 1750.08	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
4/27/98	35.87	1714.55	34.85	1716.22	30.30	1713.06	34.30	1713.65	24.51	1719.46
9/14/98	39.84	1710.58	36.02	1715.05	26.04	1717.32	35.55	1712.40	24.53	1719.44
12/15/98	39.00	1711.42	40.58	1710.49	24.77	1718.59	30.63	1717.32	22.76	1721.21
2/4/99	39.95	1710.47	31.00	1720.07	24.44	1718.92	32.51	1715.44	28.60	1715.37
3/24/99	39.80	1710.62	32.00	1719.07	23.50	1719.86	29.00	1718.95	28.90	1715.07
5/4/99	39.46	1710.96	32.67	1718.40	24.33	1719.03	29.25	1718.70	30.28	1713.69
8/9/99	40.94	1709.48	33.18	1717.89	25.34	1718.02	38.12	1709.83	30.07	1713.90
11/8/99	39.90	1710.52	39.90	1711.17	25.40	1717.96	39.04	1708.91	31.10	1712.87
1/31/00	33.58	1716.84	41.51	1709.56	26.30	1717.06	28.60	1719.35	25.86	1718.11
5/1/00	39.73	1710.69	34.83	1716.24	25.92	1717.44	40.70	1707.25	30.23	1713.74
9/18/00	34.56	1715.86	41.26	1709.81	30.70	1712.66	41.86	1706.09	29.41	1714.56
11/13/00			39.70	1711.37	35.10	1708.26			32.45	1711.52
2/1/01	34.80	1715.62	33.85	1717.22	36.39	1706.97	41.68	1706.27	31.12	1712.85
5/1/01	35.36	1715.06	37.62	1713.45	34.64	1708.72	31.60	1716.35	30.18	1713.79
9/1/01	40.20	1710.22	36.00	1715.07	22.95	1720.41			33.10	1710.87
11/1/01	36.75	1713.67	38.20	1712.87	22.00	1721.36	29.50	1718.45	26.20	1717.77
3/1/02	34.10	1716.32	30.32	1720.75	21.00	1722.36	28.98	1718.97	27.39	1716.58
5/1/02	39.10	1711.32	32.80	1718.27	21.20	1722.16	27.80	1720.15	25.90	1718.07
9/9/02	29.78	1722.72	31.52	1721.69	20.78	1724.72	28.00	1722.07	26.59	1723.49
12/9/02	29.74	1722.76	29.93	1723.28	20.45	1725.05	27.42	1722.65	24.58	1725.50
1/20/03			29.47	1723.74	21.18	1724.32	27.66	1722.41	24.88	1725.20
5/5/03	32.14	1720.36	38.53	1714.68	20.18	1725.32	27.53	1722.54	26.39	1723.69
7/9/03	29.97	1722.53	29.66	1723.55	20.47	1725.03	25.44	1724.63	21.82	1728.26
8/13/03	39.60	1712.90	32.70	1720.51	21.50	1724.00	28.00	1722.07	30.80	1719.28
9/8/03	29.54	1722.96	40.20	1713.01	29.30	1716.20	27.15	1722.92	29.25	1720.83
10/14/03	30.14	1722.36	41.78	1711.43	21.38	1724.12	28.17	1721.90	30.43	1719.65
11/12/03	30.21	1722.29	31.80	1721.41	22.45	1723.05	29.36	1720.71	33.70	1716.38
12/8/03	30.79	1721.71	33.84	1719.37	23.48	1722.02	31.20	1718.87	32.34	1717.74
1/9/04	30.92	1721.58	35.92	1717.29	23.63	1721.87	32.03	1718.04	32.99	1717.09
2/4/04	31.21	1721.29	32.34	1720.87	23.61	1721.89	32.27	1717.8	32.28	1717.8
3/15/04	31.14	1721.36	31.93	1721.28	23.71	1721.79	32.49	1717.58	32.28	1717.8
4/1/04	30.68	1721.82	34.48	1718.73	23.48	1722.02	32.06	1718.01	33.69	1716.39
5/3/04	29.87	1722.63	32.72	1720.49	22.63	1722.87	28.16	1721.91	35.67	1714.41
6/10/04	30.27	1722.23	34.58	1718.63	23.04	1722.46	30.84	1719.23	32.78	1717.30
7/12/04	30.52	1721.98	41.87	1711.34	23.83	1721.67	32.8	1717.27	31.76	1718.32
8/4/04	30.35	1722.15	41.99	1711.22	23.51	1721.99	33.73	1716.34	35.16	1714.92
9/7/04	30.76	1721.74	39.86	1713.35	23.52	1721.98	33.38	1716.69	35.74	1714.34
10/12/04	30.94	1721.56	36.47	1716.74	23.76	1721.74	34.87	1715.20	35.69	1714.39
11/10/04	30.65	1721.85	37.31	1715.90	23.88	1721.62	34.68	1715.39	24.29	1725.79
12/6/04	30.09	1722.41	36.66	1716.55	23.54	1721.96	32.84	1717.23	35.69	1714.39
1/8/05	28.79	1723.71	37.22	1715.99	37.22	1708.28	29.98	1720.09	29.11	1720.97
2/1/05	28.91	1723.59	36.41	1716.80	36.41	1709.09	29.68	1720.39	29.59	1720.49
3/10/05	28.55	1723.95	33.86	1719.35	33.86	1711.64	26.82	1723.25	24.54	1725.54
4/11/05	28.19	1724.31	39.89	1713.32	22.47	1723.03	29.36	1720.71	29.39	1720.69
5/3/05	28.02	1724.48	36.96	1716.25	22.51	1722.99	29.38	1720.69	25.97	1724.11
6/15/05	27.68	1724.82	32.35	1720.86	21.24	1724.26	29.14	1720.93	30.59	1719.49

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA FACILITY  
 GROUNDWATER ELEVATIONS  
 SELECTED ON-SITE WELLS**

TOC---->	I-L 1751.7		I-M 1752.9		I-N 1751.45		I-O 1752.8		I-P 1751.66	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
4/27/98	32.59	1716.90	40.19	1710.53	33.43	1715.83	33.00	1717.66		
9/14/98	39.83	1709.66	41.94	1708.78	36.29	1712.97	38.08	1712.58	31.45	1720.21
12/15/98	38.60	1710.89	41.67	1709.05	36.12	1713.14	33.77	1716.89	31.21	1720.45
2/4/99	37.50	1711.99	41.73	1708.99	37.10	1712.16	40.72	1709.94	29.62	1722.04
3/24/99	39.25	1710.24	41.70	1709.02	39.20	1710.06	30.20	1720.46	30.00	1721.66
5/4/99	39.31	1710.18	37.45	1713.27	37.10	1712.16	30.70	1719.96	29.83	1721.83
8/9/99	32.00	1717.49	41.90	1708.82	37.04	1712.22	31.80	1718.86	31.49	1720.17
11/8/99	38.77	1710.72	41.75	1708.97	34.00	1715.26	33.00	1717.66	36.47	1715.19
1/31/00	37.31	1712.18	41.74	1708.98	33.90	1715.36	32.60	1718.06	35.78	1715.88
5/1/00	39.68	1709.81	40.25	1710.47	34.24	1715.02	32.58	1718.08	31.83	1719.83
9/18/00	40.08	1709.41	41.71	1709.01	38.50	1710.76	35.14	1715.52		
11/13/00	39.75	1709.74	41.25	1709.47	38.28	1710.98	36.57	1714.09		
2/1/01	39.87	1709.62	41.10	1709.62	35.09	1714.17	36.26	1714.40		
5/1/01	39.25	1710.24	33.55	1717.17	41.60	1707.66	37.25	1713.41		
9/1/01	40.80	1708.69	42.52	1708.20	38.00	1711.26	31.00	1719.66		
11/1/01	32.55	1716.94	39.20	1711.52	33.00	1716.26	32.60	1718.06		
3/1/02	34.88	1714.61	37.24	1713.48	32.42	1716.84	30.98	1719.68		
5/1/02	28.82	1720.67	36.48	1714.24	31.00	1718.26	31.31	1719.35	34.00	1717.66
9/9/02	31.44	1720.26	33.40	1719.50	29.57	1721.88	30.50	1722.30	30.38	1721.28
12/9/02	30.19	1721.51	34.09	1718.81	30.02	1721.43	30.41	1722.39	29.73	1721.93
1/20/03	30.50	1721.20			30.80	1720.65	30.82	1721.98	27.96	1723.70
5/5/03	32.47	1719.23	34.90	1718.00	30.75	1720.70	29.95	1722.85	28.89	1722.77
7/9/03	29.14	1722.56	31.18	1721.72	29.24	1722.21	28.88	1723.92	28.23	1723.43
8/13/03	35.80	1715.90	34.40	1718.50	30.30	1721.15	30.60	1722.20	29.50	1722.16
9/8/03	28.72	1722.98	33.12	1719.78	30.10	1721.35	29.83	1722.97	29.23	1722.43
10/14/03	35.99	1715.71	36.23	1716.67	31.20	1720.25	31.09	1721.71	29.97	1721.69
11/12/03	36.11	1715.59	36.47	1716.43	31.64	1719.81	31.66	1721.14	30.48	1721.18
12/8/03	36.04	1715.66	36.97	1715.93	31.99	1719.46	31.29	1721.51	33.93	1717.73
1/9/04	35.65	1716.05	37.71	1715.19	32.40	1719.05	36.88	1715.92	41.91	1709.75
2/4/04	35.24	1716.46	38.09	1714.81	32.68	1718.77	36.15	1716.65	36.44	1715.22
3/15/04	34.59	1717.11	38.02	1714.88	32.91	1718.54	35.76	1717.04	39.27	1712.39
4/1/04	32.09	1719.61	34.76	1718.14	31.55	1719.90	34.11	1718.69	39.14	1712.52
5/3/04	35.60	1716.10	34.90	1718.00	31.06	1720.39	32.61	1720.19	42.39	1709.27
6/10/04	32.91	1718.79	33.76	1719.14	30.91	1720.54	32.81	1719.99	34.43	1717.23
7/12/04	35.89	1715.81	35.21	1717.69	31.51	1719.94	36.53	1716.27	42.33	1709.33
8/4/04	34.62	1717.08	31.73	1721.17	31.41	1720.04	33.42	1719.38	40.43	1711.23
9/7/04	34.18	1717.52	37.1	1715.80	32.23	1719.22	38.68	1714.12	41.89	1709.77
10/12/04	34.29	1717.41	37.38	1715.52	32.49	1718.96	36.84	1715.96	42.23	1709.43
11/10/04	33.58	1718.12	35.31	1717.59	31.44	1720.01	37.6	1715.20	37.43	1714.23
12/6/04	35.45	1716.25	34.63	1718.27	30.81	1720.64	37.93	1714.87	42.24	1709.42
1/8/05	29.03	1722.67	33.44	1719.46	30.19	1721.26	31.21	1721.59	30.81	1720.85
2/1/05	27.62	1724.08	32.45	1720.45	29.71	1721.74	31.34	1721.46	31.18	1720.48
3/10/05	27.62	1724.08	30.72	1722.18	28.93	1722.52	31.48	1721.32	30.81	1720.85
4/11/05	26.89	1724.81	29.73	1723.17	28.30	1723.15	31.61	1721.19	30.91	1720.75
5/3/05	26.58	1725.12	29.54	1723.36	28.07	1723.38	31.58	1721.22	30.89	1720.77
6/15/05	27.24	1724.46	29.59	1723.31	27.76	1723.69	30.72	1722.08	29.91	1721.75

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA FACILITY  
 GROUNDWATER ELEVATIONS  
 SELECTED ON-SITE WELLS**

TOC--->	I-Q 1753.11		I-R 1751.35		I-S 1750.03		I-T 1751.65		I-U 1752.16	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
4/27/98										
9/14/98	40.95	1712.16								
12/15/98	40.14	1712.97								
2/4/99	38.30	1714.81								
3/24/99	38.00	1715.11								
5/4/99	37.24	1715.87	31.22	1720.13	43.12	1706.91	40.00	1711.65	39.20	1712.96
8/9/99	36.58	1716.53	32.26	1719.09	35.95	1714.08	30.37	1721.28	31.16	1721.00
11/8/99	39.33	1713.78	33.35	1718.00	39.91	1710.12	42.00	1709.65	41.80	1710.36
1/31/00	39.15	1713.96	35.37	1715.98	41.63	1708.40	27.80	1723.85	38.42	1713.74
5/1/00			34.74	1716.61	38.78	1711.25	41.58	1710.07	37.30	1714.86
9/18/00	38.07	1715.04	37.73	1713.62	42.94	1707.09	40.89	1710.76	40.16	1712.00
11/13/00	37.35	1715.76	36.80	1714.55	41.90	1708.13	40.83	1710.82	40.30	1711.86
2/1/01	36.21	1716.90	36.99	1714.36	42.77	1707.26	42.82	1708.83	43.80	1708.36
5/1/01	36.53	1716.58	36.18	1715.17	29.50	1720.53	41.82	1709.83	43.10	1709.06
9/1/01	38.10	1715.01	38.10	1713.25	43.80	1706.23	40.35	1711.30		
11/1/01	37.90	1715.21	33.70	1717.65	36.75	1713.28	41.90	1709.75	36.00	1716.16
3/1/02	39.62	1713.49	35.38	1715.97	27.32	1722.71	41.40	1710.25	35.78	1716.38
5/1/02	38.15	1714.96	28.50	1722.85	28.50	1721.53	38.28	1713.37	32.70	1719.46
9/9/02	36.94	1716.17	29.75	1721.60	43.54	1706.49	39.38	1712.27	36.14	1716.02
12/9/02	37.13	1715.98	29.95	1721.40	43.48	1706.55	40.99	1710.66	33.44	1718.72
1/20/03	35.39	1717.72	32.68	1718.67	43.25	1706.78	38.51	1713.14	34.55	1717.61
5/5/03	39.44	1713.67	34.48	1716.87	42.75	1707.28	39.80	1711.85	42.33	1709.83
7/9/03	29.84	1723.27	28.97	1722.38	27.78	1722.25	29.25	1722.40	29.31	1722.85
8/13/03	35.00	1718.11	36.6	1714.75	42.10	1707.93	41.80	1709.85	39.80	1712.36
9/8/03	34.63	1718.48	29.14	1722.21	27.25	1722.78	39.84	1711.81	42.65	1709.51
10/14/03	36.7	1716.41	34.95	1716.40	43.23	1706.80	41.85	1709.80	42.63	1709.53
11/12/03	38.13	1714.98	40.19	1711.16	43.31	1706.72	43.72	1707.93	43.36	1708.80
12/8/03	38.07	1715.04	37.02	1714.33	43.32	1706.71	34.34	1717.31	42.71	1709.45
1/9/04	39.01	1714.1	37.08	1714.27	43.34	1706.69	42.93	1708.72	42.74	1709.42
2/4/04	34.73	1718.38	37.20	1714.15	43.34	1706.69	42.93	1708.72		
3/15/04	34.17	1718.94	36.79	1714.56	41.48	1708.55	42.51	1709.14	42.51	1709.65
4/1/04	34.44	1718.67	33.66	1717.69	28.16	1721.87	40.68	1710.97	43.43	1708.73
5/3/04	34.31	1718.80	34.07	1717.28	28.34	1721.69	41.57	1710.08	30.18	1721.98
6/10/04	37.69	1715.42	34.37	1716.98	29.24	1720.79	40.73	1710.92	29.94	1722.22
7/12/04	31.77	1721.34	38.69	1712.66	43.26	1706.77	43.47	1708.18	43.51	1708.65
8/4/04	37.09	1716.02	35.64	1715.71	40.47	1709.56	31.11	1720.54	42.91	1709.25
9/7/04	40.51	1712.60	37.01	1714.34	43.09	1706.94	73.71	1677.94	40.87	1711.29
10/12/04	40.4	1712.71	37.01	1714.34	43.15	1706.88	35.57	1716.08	37.87	1714.29
11/10/04	39.23	1713.88	37.08	1714.27	43.13	1706.90	39.56	1712.09	38.22	1713.94
12/6/04	34.32	1718.79	37.03	1714.32	43.11	1706.92	32.92	1718.73	35.01	1717.15
1/8/05	32.21	1720.90	36.47	1714.88	27.81	1722.22	38.56	1713.09	31.08	1721.08
2/1/05	32.26	1720.85	35.11	1716.24	27.21	1722.82	41.05	1710.60	36.62	1715.54
3/10/05	29.48	1723.63	30.51	1720.84	26.12	1723.91	32.56	1719.09	32.37	1719.79
4/11/05	29.23	1723.88	29.69	1721.66	25.46	1724.57	36.37	1715.28	33.01	1719.15
5/3/05	27.15	1725.96	29.53	1721.82	24.74	1725.29	35.94	1715.71	32.64	1719.52
6/15/05	30.69	1722.42	32.29	1719.06	25.71	1724.32	30.76	1720.89	31.31	1720.85

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA FACILITY  
 GROUNDWATER ELEVATIONS  
 SELECTED ON-SITE WELLS**

TOC---->	I-V 1752.13		I-Z 1743.78		I-AR 1758.35		M-14/14A 1759.83		M-18 1740.48	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
	4/27/98							33.44	1725.39	21.60
9/14/98							34.38	1724.45	21.55	1716.73
12/15/98							32.88	1725.95	20.44	1717.84
2/4/99							32.76	1726.07	20.81	1717.47
3/24/99							32.20	1726.63	21.35	1716.93
5/4/99	40.19	1711.94					32.34	1726.49	21.74	1716.54
8/9/99	38.33	1713.80					34.12	1724.71	22.50	1715.78
11/8/99	40.50	1711.63					34.45	1724.38	23.00	1715.28
1/31/00	31.30	1720.83					34.17	1724.66	23.51	1714.77
5/1/00	39.48	1712.65					33.95	1724.88	23.86	1714.42
9/18/00	40.53	1711.60			43.95	1714.40	34.12	1724.71	24.57	1713.71
11/13/00	42.39	1709.74			43.03	1715.32	32.78	1726.05	24.80	1713.48
2/1/01	32.90	1719.23			43.90	1714.45	33.80	1725.03	26.62	1711.66
5/1/01	36.60	1715.53					33.73	1725.10	24.99	1713.29
9/1/01	43.40	1708.73					34.24	1724.59	dry	
11/1/01	33.00	1719.13			33.78	1724.57	34.23	1724.60	dry	
3/1/02	27.27	1724.86			43.49	1714.86	33.40	1725.43	dry	
5/1/02	29.98	1722.15			43.90	1714.45	33.42	1725.41	dry	
9/9/02	29.46	1722.67			40.00	1718.35	31.92	1727.91	dry	
12/9/02	28.51	1723.62			40.15	1718.20	32.92	1726.91	dry	
1/20/03	28.72	1723.41			40.91	1717.44	33.78	1726.05	28.21	1710.07
5/5/03	28.10	1724.03			41.98	1716.37	33.75	1726.08	28.92	1709.36
7/9/03	28.08	1724.05			43.82	1714.53	P&A		DRY	
8/13/03	28.90	1723.23			52.00	1706.35			DRY	
9/8/03	28.55	1723.58			43.92	1714.43			DRY	
10/14/03	29.37	1722.76			43.83	1714.52			28.63	1709.65
11/12/03	30.10	1722.03	26.27	1717.51	43.90	1714.45			DRY	
12/8/03	31.35	1720.78	30.10	1713.68	43.93	1714.42			28.38	1709.90
1/9/04	31.56	1720.57	29.97	1713.81	43.95	1714.4			28.95	1709.33
2/4/04	31.45	1720.68	29.86	1713.92	43.93	1714.42			29.04	1709.24
3/15/04	31.59	1720.54	29.71	1714.07	43.98	1714.37			28.88	1709.40
4/1/04	31.41	1720.72	28.28	1715.50	43.93	1714.42			29.02	1709.26
5/3/04	31.31	1720.82	29.95	1713.83	43.84	1714.51			29.03	1709.25
6/10/04	30.88	1721.25	22.16	1721.62	43.89	1714.46			29.15	1709.13
7/12/04	31.71	1720.42	32.58	1711.20	44.01	1714.34			29.04	1709.24
8/4/04	31.41	1720.72	32.74	1711.04	43.44	1714.91			29.08	1709.20
9/7/04	31.51	1720.62	32.79	1710.99	30.04	1728.31			28.97	1709.31
10/12/04	31.68	1720.45	32.87	1710.91	42.97	1715.38			29.02	1709.26
11/10/04	31.72	1720.41	33.38	1710.40	42.97	1715.38			29.06	1709.22
12/6/04	31.38	1720.75	34.02	1709.76	41.68	1716.67			28.66	1709.62
1/8/05	29.91	1722.22	29.75	1714.03	29.91	1728.44			28.11	1710.17
2/1/05	30.18	1721.95	32.93	1710.85	27.81	1730.54	31.64	1728.19	28.08	1710.20
3/10/05	29.76	1722.37	32.76	1711.02	41.24	1717.11	31.13	1728.7	27.93	1710.35
4/11/05	29.93	1722.20	31.56	1712.22	28.81	1729.54	31.11	1728.72	27.91	1710.37
5/3/05	29.91	1722.22	32.94	1710.84	27.87	1730.48	31.14	1728.69	28.09	1710.19
6/15/05	29.02	1723.11	25.86	1717.92	27.41	1730.94	31.34	1728.49	28.04	1710.24

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA FACILITY  
 GROUNDWATER ELEVATIONS  
 SELECTED ON-SITE WELLS**

TOC---->	M-19 1766.77		M-22A 1759.46		M-25 1759.93		M-27 1742.25		M-36 1759.82	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
4/27/98	32.40	1733.86	29.00	1728.76	33.05	1724.77	DRY		31.31	1726.63
9/14/98	32.17	1734.09	28.60	1729.16	33.72	1724.10	DRY		31.82	1726.12
12/15/98	32.18	1734.08	29.10	1728.66	33.41	1724.41	26.00	1714.16	31.67	1726.27
2/4/99	32.69	1733.57	29.00	1728.76	33.35	1724.47	DRY		31.47	1726.47
3/24/99	33.00	1733.26	29.00	1728.76	33.40	1724.42	26.00	1716.25	31.60	1726.34
5/4/99	33.03	1733.23	29.26	1728.50	33.33	1724.49	DRY		31.48	1726.46
8/9/99	33.79	1732.47	29.90	1727.86	33.76	1724.06	DRY		32.09	1725.85
11/8/99	33.80	1732.46	30.31	1727.45	34.00	1723.82	DRY		32.42	1725.52
1/31/00	34.40	1731.86	30.29	1727.47	33.70	1724.12	DRY		32.30	1725.64
5/1/00	34.50	1731.76	30.36	1727.40	33.53	1724.29	DRY		32.29	1725.65
9/18/00	35.24	1731.02	30.91	1726.85	34.11	1723.71	DRY		32.79	1725.15
11/13/00	33.97	1732.29	30.95	1726.81	33.95	1723.87	DRY		32.70	1725.24
2/1/01	34.93	1731.33	30.92	1726.84	33.93	1723.89	DRY		33.73	1724.21
5/1/01	35.06	1731.20	30.73	1727.03	33.58	1724.24	DRY		32.47	1725.47
9/1/01	35.33	1730.93	30.77	1726.99	33.77	1724.05	DRY		32.43	1725.51
11/1/01	35.00	1731.26	30.00	1727.76	33.42	1724.40	DRY		31.95	1725.99
3/1/02	34.00	1732.26	29.56	1728.20	33.20	1724.62	DRY		31.78	1726.16
5/1/02	34.02	1732.24	29.18	1728.58	32.82	1725.00	DRY		31.35	1726.59
9/9/02	34.22	1732.55	29.08	1730.38	32.30	1727.63	23.25	1719.00	31.22	1728.60
12/9/02	35.73	1731.04	29.23	1730.23	33.07	1726.86	23.72	1718.53	31.47	1728.35
1/20/03	35.27	1731.50	29.25	1730.21	33.27	1726.66	23.71	1718.54	31.59	1728.23
5/5/03	35.10	1731.67	29.36	1730.10	33.23	1726.70	DRY		31.61	1728.21
7/9/03	35.89	1730.88	29.49	1729.97	33.36	1726.57	DRY		31.76	1728.06
8/13/03	34.80	1731.97	29.60	1729.86	33.35	1726.58	DRY		31.8	1728.02
9/8/03	34.18	1732.59	29.56	1729.9	33.34	1726.59	DRY		31.75	1728.07
10/14/03	34.89	1731.88	29.74	1729.72	33.63	1726.30	DRY		31.97	1727.85
11/12/03	34.98	1731.79	29.97	1729.49	33.76	1726.17	DRY		32.13	1727.69
12/8/03	35.17	1731.6	30.37	1729.09	33.84	1726.09	DRY		32.35	1727.47
1/9/04	35.41	1731.36	30.62	1728.84	33.91	1726.02	DRY			
2/4/04	35.44	1731.33	30.77	1728.69	33.96	1725.97	DRY		32.63	1727.19
3/15/04	35.36	1731.41	30.67	1728.79	33.82	1726.11	DRY		32.56	1727.26
4/1/04	35.23	1731.54	30.42	1729.04	33.12	1726.81	DRY		32.23	1727.59
5/3/04	34.91	1731.86	30.15	1729.31	32.73	1727.20	DRY		30.77	1729.05
6/10/04	35.09	1731.68	30.19	1729.27	33.11	1726.82	DRY		31.99	1727.83
7/12/04	35.39	1731.38	30.51	1728.95	33.46	1726.47	DRY		32.23	1727.59
8/4/04	35.51	1731.26	30.53	1728.93	33.48	1726.45	DRY		32.28	1727.54
9/7/04	34.82	1731.95	30.51	1728.95	33.74	1726.19	DRY		32.41	1727.41
10/12/04	35.32	1731.45	30.54	1728.92	32.97	1726.96	DRY		32.34	1727.48
11/10/04	35.23	1731.54	30.47	1728.99	32.45	1727.48	DRY		32.09	1727.73
12/6/04	34.07	1732.70	30.01	1729.45	32.63	1727.30	DRY		31.81	1728.01
1/8/05	33.47	1733.30	29.44	1730.02	32.18	1727.75	DRY		31.29	1728.53
2/1/05	33.32	1733.45	29.26	1730.20	31.93	1728.00	DRY		31.24	1728.58
3/10/05	32.92	1733.85	28.84	1730.62	31.32	1728.61	DRY		30.91	1728.91
4/11/05	32.91	1733.86	28.89	1730.57	30.91	1729.02	DRY		30.84	1728.98
5/3/05	33.08	1733.69	28.92	1730.54	30.77	1729.16	DRY		30.81	1729.01
6/15/05	32.91	1733.86	28.79	1730.67	30.71	1729.22	DRY		30.67	1729.15

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA FACILITY  
 GROUNDWATER ELEVATIONS  
 SELECTED ON-SITE WELLS**

TOC---->	M-37 1761.06		M-38 1759.73		M-39 1761.13		M-61 1746.84		M-64 1749.76	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
4/27/98	31.41	1727.87	30.74	1727.20	30.06	1729.25	23.49	1722.06	29.47	1720.29
9/14/98	32.04	1727.24	31.21	1726.73	30.63	1728.68	23.22	1722.33	30.40	1719.36
12/15/98	31.42	1727.86	31.05	1726.89	29.28	1730.03	23.55	1722.00	30.15	1719.61
2/4/99	31.43	1727.85	30.94	1727.00	30.02	1729.29	22.40	1723.15	30.10	1719.66
3/24/99	31.60	1727.68	31.00	1726.94	30.38	1728.93	23.33	1722.22	30.40	1719.36
5/4/99	31.43	1727.85	30.90	1727.04	30.59	1728.72	23.70	1721.85	30.55	1719.21
8/9/99	32.11	1727.17	31.31	1726.63	31.12	1728.19	24.20	1721.35	30.82	1718.94
11/8/99	32.51	1726.77	31.48	1726.46	31.60	1727.71	24.85	1720.70	32.03	1717.73
1/31/00	32.09	1727.19	31.31	1726.63	31.58	1727.73	24.99	1720.56	30.81	1718.95
5/1/00	31.55	1727.73	31.30	1726.64	31.70	1727.61	25.11	1720.44	30.35	1719.41
9/18/00	32.29	1726.99	31.91	1726.03	32.26	1727.05	25.20	1720.35	31.90	1717.86
11/13/00	33.00	1726.28	31.40	1726.54	32.22	1727.09	25.10	1720.45	31.80	1717.96
2/1/01	34.09	1725.19	31.42	1726.52	32.23	1727.08	27.23	1718.32	32.87	1716.89
5/1/01	32.62	1726.66	31.17	1726.77	32.10	1727.21	25.82	1719.73	30.43	1719.33
9/1/01	32.04	1727.24	31.38	1726.56	31.96	1727.35	24.60	1720.95	32.22	1717.54
11/1/01	32.10	1727.18	31.32	1726.62	31.54	1727.77	23.12	1722.43	30.31	1719.45
3/1/02	32.10	1727.18	31.10	1726.84	31.10	1728.21	23.15	1722.40	28.88	1720.88
5/1/02	31.51	1727.77	30.81	1727.13	30.60	1728.71	21.31	1724.24	28.60	1721.16
9/9/02	30.94	1730.12	32.75	1726.98	30.62	1730.51	22.20	1724.64	27.85	1721.91
12/9/02	32.04	1729.02	31.01	1728.72	30.72	1730.41	21.95	1724.89	28.67	1721.09
1/20/03	33.23	1727.83	31.05	1728.68	30.66	1730.47	23.18	1723.66	28.82	1720.94
5/5/03	32.90	1728.16	31.07	1728.66	30.80	1730.33	22.32	1724.52	28.81	1720.95
7/9/03	32.41	1728.65	31.11	1728.62	30.99	1730.14	22.08	1724.76	29.17	1720.59
8/13/03	32.3	1728.76	21.1	1738.63	21.13	1740.00	22.63	1724.21	29.50	1720.26
9/8/03	32.68	1728.38	31.17	1728.56	31.08	1730.05	22.63	1724.21	28.91	1720.85
10/14/03	33.76	1727.3	31.25	1728.48	31.22	1729.91	22.89	1723.95	29.37	1720.39
11/12/03	34.13	1726.93	31.36	1728.37	31.42	1729.71	23.47	1723.37	29.51	1720.25
12/8/03	34.31	1726.75	31.43	1728.3	31.83	1729.3	24.11	1722.73	29.64	1720.12
1/9/04	34.03	1727.03	31.51	1728.22	32.06	1729.07			29.76	1720.00
2/4/04	34.03	1727.03	31.54	1728.19	32.18	1728.95	24.27	1722.57	29.85	1719.91
3/15/04	34.31	1726.75	31.41	1728.32	31.99	1729.14	24.18	1722.66	29.81	1719.95
4/1/04	32.28	1728.78	30.91	1728.82	31.81	1729.32	24.05	1722.79	29.10	1720.66
5/3/04	31.59	1729.47	30.77	1728.96	31.65	1729.48	24.13	1722.71	28.57	1721.19
6/10/04	32.37	1728.69	31.08	1728.65	31.68	1729.45	23.86	1722.98	28.72	1721.04
7/12/04	32.81	1728.25	31.28	1728.45	32.04	1729.09	24.34	1722.50	29.22	1720.54
8/4/04	32.09	1728.97	31.25	1728.48	32.06	1729.07	24.09	1722.75	29.42	1720.34
9/7/04	32.31	1728.75	31.39	1728.34	31.84	1729.29	24.19	1722.65	29.54	1720.22
10/12/04	31.61	1729.45	30.08	1729.65	32.05	1729.08	24.31	1722.53	29.61	1720.15
11/10/04	30.79	1730.27	30.84	1728.89	32.02	1729.11	24.37	1722.47	28.83	1720.93
12/6/04	31.31	1729.75	30.79	1728.94	31.35	1729.78	23.99	1722.85	28.73	1721.03
1/8/05	30.48	1730.58	30.47	1729.26	30.69	1730.44	23.09	1723.75	28.19	1721.57
2/1/05	30.6	1730.46	30.41	1729.32	30.51	1730.62	23.04	1723.80	27.68	1722.08
3/10/05	30.35	1730.71	29.99	1729.74	30.19	1730.94	22.77	1724.07	26.84	1722.92
4/11/05	30.08	1730.98	29.87	1729.86	30.22	1730.91	22.92	1723.92	25.56	1724.20
5/3/05	30.02	1731.04	29.84	1729.89	30.25	1730.88	23.04	1723.80	25.83	1723.93
6/15/05	29.96	1731.10	29.82	1729.91	30.21	1730.92	23.06	1723.78	25.49	1724.27



**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA FACILITY  
 GROUNDWATER ELEVATIONS  
 SELECTED ON-SITE WELLS**

TOC---->	M-65 1753.91		M-66 1754.24		M-67 1745.91		M-68 1748.73		M-69 1749.76	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
4/27/98	32.35	1720.53	30.12	1722.21	20.80	1724.18	22.67	1724.77	29.32	1719.45
9/14/98	32.69	1720.19	30.42	1721.91	20.79	1724.19	22.40	1725.04	30.58	1718.19
12/15/98	32.60	1720.28	30.55	1721.78	21.00	1723.98	22.20	1725.24	30.18	1718.59
2/4/99	32.35	1720.53	29.58	1722.75	20.10	1724.88	21.60	1725.84	30.00	1718.77
3/24/99	32.53	1720.35	29.90	1722.43	20.54	1724.44	22.90	1724.54	30.50	1718.27
5/4/99	32.64	1720.24	30.35	1721.98	20.90	1724.08	23.18	1724.26	31.14	1717.63
8/9/99	32.90	1719.98	30.89	1721.44	21.42	1723.56	23.60	1723.84	31.52	1717.25
11/8/99	33.00	1719.88	31.45	1720.88	22.04	1722.94	24.29	1723.15	31.92	1716.85
1/31/00	32.95	1719.93	31.47	1720.86	22.03	1722.95	24.01	1723.43	32.00	1716.77
5/1/00	32.87	1720.01	31.60	1720.73	22.24	1722.74	24.52	1722.92	31.31	1717.46
9/18/00	33.10	1719.78	31.80	1720.53	22.41	1722.57	24.86	1722.58	32.20	1716.57
11/13/00	33.05	1719.83	31.85	1720.48	22.40	1722.58	24.68	1722.76	32.10	1716.67
2/1/01	34.61	1718.27	31.89	1720.44			26.29	1721.15	31.99	1716.78
5/1/01	33.22	1719.66	32.10	1720.23	22.75	1722.23	25.75	1721.69	31.30	1717.47
9/1/01	33.93	1718.95	31.57	1720.76	21.77	1723.21	25.49	1721.95	33.50	1715.27
11/1/01	31.91	1720.97	29.86	1722.47	20.38	1724.60	24.14	1723.30	33.42	1715.35
3/1/02	31.32	1721.56	29.20	1723.13	19.99	1724.99	24.00	1723.44	33.03	1715.74
5/1/02	30.48	1722.40	29.29	1723.04	19.70	1725.28	24.92	1722.52	33.28	1715.49
9/9/02	29.53	1724.38	28.80	1725.44	19.43	1726.48	23.26	1725.47	31.96	1717.80
12/9/02	30.04	1723.87	28.92	1725.32	19.45	1726.46	23.12	1725.61	32.12	1717.64
1/20/03	31.62	1722.29	29.09	1725.15			24.85	1723.88	32.42	1717.34
5/5/03	30.35	1723.56	28.76	1725.48	19.48	1726.43	23.48	1725.25	32.00	1717.76
7/9/03	30.81	1723.10	29.28	1724.96	19.80	1726.11	23.41	1725.32	32.30	1717.46
8/13/03	31.80	1722.11	29.32	1724.92	19.80	1726.11	25.80	1722.93	33.38	1716.38
9/8/03	30.48	1723.43	29.18	1725.06	19.88	1726.03	23.74	1724.99	33.15	1716.61
10/14/03	31.10	1722.81	29.65	1724.59	20.10	1725.81	23.92	1724.81	32.91	1716.85
11/12/03	31.37	1722.54	30.04	1724.20	20.99	1724.92	24.22	1724.51	31.04	1718.72
12/8/03	31.69	1722.22	30.86	1723.38	21.64	1724.27	24.67	1724.06	30.70	1719.06
1/9/04	31.97	1721.94	31.11	1723.13	21.83	1724.08	24.86	1723.87	30.98	1718.78
2/4/04	32.44	1721.47	31.22	1723.02	21.94	1723.97	24.86	1723.87	31.04	1718.72
3/15/04	32.28	1721.63	31.22	1723.02	21.84	1724.07	24.62	1724.11	31.52	1718.24
4/1/04	31.54	1722.37	31.01	1723.23	21.96	1723.95	24.62	1724.11	31.81	1717.95
5/3/04	30.76	1723.15	30.78	1723.46	21.67	1724.24	24.67	1724.06	31.71	1718.05
6/10/04	30.72	1723.19	30.73	1723.51	21.31	1724.60	34.57	1714.16	30.78	1718.98
7/12/04	31.19	1722.72	31.09	1723.15	21.98	1723.93	24.98	1723.75	31.44	1718.32
8/4/04	31.37	1722.54	31.04	1723.20	21.76	1724.15	25.63	1723.10	31.99	1717.77
9/7/04	31.77	1722.14	31.02	1723.22	21.82	1724.09	24.71	1724.02	32.04	1717.72
10/12/04	32.11	1721.80	31.14	1723.10			24.92	1723.81	32.26	1717.50
11/10/04	31.22	1722.69	31.13	1723.11	21.97	1723.94	24.88	1723.85	32.17	1717.59
12/6/04	30.59	1723.32	30.74	1723.50	21.56	1724.35	24.37	1724.36	32.02	1717.74
1/8/05	29.95	1723.96	29.32	1724.92	20.81	1725.10	23.13	1725.60	31.54	1718.22
2/1/05	30.78	1723.13	29.64	1724.60	20.71	1725.20	23.29	1725.44	31.11	1718.65
3/10/05	28.94	1724.97	29.31	1724.93	20.37	1725.54	22.96	1725.77	30.76	1719.00
4/11/05	28.32	1725.59	29.39	1724.85	20.52	1725.39	23.17	1725.56	30.46	1719.30
5/3/05	28.13	1725.78	29.34	1724.90	20.53	1725.38	23.29	1725.44	30.41	1719.35
6/15/05	27.72	1726.19	28.74	1725.50	20.29	1725.62	23.42	1725.31	30.12	1719.64

**KERR-McGEE CHEMICAL LLC  
HENDERSON, NEVADA FACILITY  
GROUNDWATER ELEVATIONS  
SELECTED ON-SITE WELLS**

TOC---->	M-70 1748.25		M-71 1747.05		M-72 1746.5		M-73 1741.15		M-74 1744.38	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
4/27/98	27.84	1719.12	29.46	1716.42	27.22	1718.07	20.46	1719.59	22.80	1720.62
9/14/98	29.32	1717.64	29.40	1716.48	25.99	1719.30	20.27	1719.78	22.38	1721.04
12/15/98	29.15	1717.81	28.29	1717.59	25.74	1719.55	19.74	1720.31	22.80	1720.62
2/4/99	29.65	1717.31	29.40	1716.48	25.32	1719.97	19.64	1720.41	20.00	1723.42
3/24/99	30.40	1716.56	30.00	1715.88	25.58	1719.71	19.84	1720.21	22.65	1720.77
5/4/99	30.91	1716.05	30.78	1715.10	26.22	1719.07	20.44	1719.61	23.02	1720.40
8/9/99	31.00	1715.96	30.97	1714.91	27.22	1718.07	21.21	1718.84	23.58	1719.84
11/8/99	31.14	1715.82	31.55	1714.33	27.78	1717.51	21.58	1718.47	24.20	1719.22
1/31/00	31.10	1715.86	31.63	1714.25	28.30	1716.99	22.03	1718.02	24.34	1719.08
5/1/00	30.87	1716.09	31.07	1714.81	28.37	1716.92	22.17	1717.88	24.77	1718.65
9/18/00	31.65	1715.31	32.14	1713.74	28.91	1716.38	22.84	1717.21	24.55	1718.87
11/13/00	31.60	1715.36	31.90	1713.98	28.99	1716.30	22.98	1717.07	24.70	1718.72
2/1/01	32.40	1714.56	32.16	1713.72	29.17	1716.12	23.07	1716.98	26.65	1716.77
5/1/01	30.22	1716.74	31.97	1713.91	29.03	1716.26	23.03	1717.02	25.72	1717.70
9/1/01	31.78	1715.18	32.92	1712.96	29.33	1715.96	26.60	1713.45		
11/1/01	33.55	1713.41	32.40	1713.48	30.39	1714.90	28.53	1711.52	28.59	1714.83
3/1/02	32.55	1714.41	29.10	1716.78	30.30	1714.99	28.75	1711.30	27.98	1715.44
5/1/02	33.95	1713.01	30.31	1715.57	31.65	1713.64	28.80	1711.25	27.57	1715.85
9/9/02	30.05	1718.20	26.34	1720.71	29.76	1716.74	28.57	1712.58	27.41	1716.97
12/9/02	30.30	1717.95	26.91	1720.14	29.84	1716.66	28.44	1712.71	27.35	1717.03
1/20/03	29.70	1718.55	27.32	1719.73	30.78	1715.72	29.51	1711.64	28.55	1715.83
5/5/03	30.30	1717.95	28.18	1718.87	30.07	1716.43	29.95	1711.20	28.10	1716.28
7/9/03	30.32	1717.93	27.45	1719.60	30.90	1715.60	29.65	1711.50	28.82	1715.56
8/13/03	30.20	1718.05	27.00	1720.05	29.42	1717.08	28.30	1712.85	27.82	1716.56
9/8/03	31.1	1717.15	28.38	1718.67	29.80	1716.70	28.54	1712.61	27.87	1716.51
10/14/03	29.82	1718.43	29.22	1717.83	30.04	1716.46	28.72	1712.43	27.96	1716.42
11/12/03	27.96	1720.29	30.21	1716.84	31.24	1715.26	28.87	1712.28	28.10	1716.28
12/8/03	28.06	1720.19	29.76	1717.29	31.43	1715.07	28.91	1712.24	28.32	1716.06
1/9/04	28.63	1719.62	29.66	1717.39	29.99	1716.51	28.91	1712.24	28.48	1715.9
2/4/04	28.87	1719.38	29.33	1717.72	29.82	1716.68	28.76	1712.39	28.54	1715.84
3/15/04	29.09	1719.16	28.57	1718.48	31.24	1715.26	28.94	1712.21	28.11	1716.27
4/1/04	29.53	1718.72	29.11	1717.94	31.35	1715.15	29.03	1712.12	28.35	1716.03
5/3/04	29.31	1718.94	28.91	1718.14	31.21	1715.29	28.91	1712.24	28.49	1715.89
6/10/04	28.78	1719.47	29.45	1717.60	31.34	1715.16	28.94	1712.21	28.58	1715.80
7/12/04	28.84	1719.41	28.41	1718.64	29.77	1716.73	28.71	1712.44	28.72	1715.66
8/4/04	29.72	1718.53	29.61	1717.44	29.76	1716.74	28.54	1712.61	26.68	1717.70
9/7/04	30.66	1717.59	29.92	1717.13	29.49	1717.01	28.21	1712.94	28.52	1715.86
10/12/04	31.05	1717.20	30.23	1716.82	29.61	1716.89	28.29	1712.86	28.66	1715.72
11/10/04	30.91	1717.34	29.69	1717.36	29.51	1716.99	28.16	1712.99	28.74	1715.64
12/6/04	30.78	1717.47	29.42	1717.63	29.44	1717.06	27.92	1713.23	28.07	1716.31
1/8/05	29.98	1718.27	27.86	1719.19	27.71	1718.79	26.98	1714.17	26.99	1717.39
2/1/05	28.88	1719.37	27.13	1719.92	27.84	1718.66	26.56	1714.59	26.62	1717.76
3/10/05	29.67	1718.58	28.71	1718.34	28.95	1717.55	26.71	1714.44	26.56	1717.82
4/11/05	29.45	1718.80	28.58	1718.47	29.36	1717.14	27.41	1713.74	26.83	1717.55
5/3/05	29.73	1718.52	29.27	1717.78	29.57	1716.93	27.52	1713.63	26.92	1717.46
6/15/05	28.92	1719.33	28.46	1718.59	29.03	1717.47	26.66	1714.49	27.21	1717.17

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA FACILITY  
 GROUNDWATER ELEVATIONS  
 SELECTED ON-SITE WELLS**

TOC---->	M-79 1742.54		M-80 1746.04		M-81A 1744.16		M-83 1742.36		M-84 1741.03	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
4/27/98	25.56	1717.37	28.12	1717.61	26.55	1715.53	24.35	1716.48	24.22	1715.41
9/14/98	25.10	1717.83	31.00	1714.73	25.60	1716.48	26.57	1714.26	25.05	1714.58
12/15/98	25.25	1717.68	31.00	1714.73	25.40	1716.68	25.72	1715.11	24.66	1714.97
2/4/99	26.85	1716.08	31.14	1714.59	24.60	1717.48	26.46	1714.37	25.10	1714.53
3/24/99	27.72	1715.21	31.95	1713.78	25.98	1716.10	27.20	1713.63	25.90	1713.73
5/4/99	28.28	1714.65	32.56	1713.17	26.92	1715.16	27.89	1712.94	26.60	1713.03
8/9/99	28.68	1714.25	33.05	1712.68	27.89	1714.19	28.82	1712.01	27.23	1712.40
11/8/99	29.15	1713.78	33.40	1712.33	29.10	1712.98	29.37	1711.46	27.53	1712.10
1/31/00	29.21	1713.72	32.18	1713.55	30.19	1711.89	29.48	1711.35	28.14	1711.49
5/1/00	28.80	1714.13	33.60	1712.13	30.09	1711.99	29.18	1711.65	27.93	1711.70
9/18/00	29.15	1713.78	34.75	1710.98	31.30	1710.78	29.75	1711.08	29.34	1710.29
11/13/00	29.05	1713.88	34.80	1710.93	31.38	1710.70	29.73	1711.10	29.42	1710.21
2/1/01	29.42	1713.51	34.77	1710.96	31.79	1710.29	29.70	1711.13	29.50	1710.13
5/1/01	28.43	1714.50	33.88	1711.85	31.58	1710.50	27.78	1713.05	28.29	1711.34
9/1/01	30.86	1712.07	34.65	1711.08	32.27	1709.81	30.22	1710.61	29.18	1710.45
11/1/01	31.69	1711.24	33.60	1712.13	28.74	1713.34	28.60	1712.23	27.94	1711.69
3/1/02	30.00	1712.93	31.24	1714.49	28.96	1713.12	28.13	1712.70	25.28	1714.35
5/1/02	30.84	1712.09	32.45	1713.28	30.65	1711.43	30.02	1710.81	26.52	1713.11
9/9/02	28.78	1713.76	25.55	1720.49	26.99	1717.17	24.60	1717.76	21.54	1719.49
12/9/02	28.61	1713.93	27.79	1718.25	27.89	1716.27	25.39	1716.97	22.12	1718.91
1/20/03	26.14	1716.40	27.73	1718.31	26.33	1717.83	24.52	1717.84	22.24	1718.79
5/5/03	28.10	1714.44	29.72	1716.32	26.61	1717.55	26.23	1716.13	24.41	1716.62
7/9/03	28.52	1714.02	27.71	1718.33	26.81	1717.35	26.21	1716.15	23.81	1717.22
8/13/03	28.60	1713.94	27.50	1718.54	26.00	1718.16	26.00	1716.36	23.55	1717.48
9/8/03	29.53	1713.01	28.74	1717.30	27.28	1716.88	26.88	1715.48	24.71	1716.32
10/14/03	28.43	1714.11	28.67	1717.37	28.34	1715.82	25.78	1716.58	24.78	1716.25
11/12/03	24.33	1718.21	29.48	1716.56	29.21	1714.95	24.72	1717.64	25.42	1715.61
12/8/03	25.18	1717.36	29.17	1716.87	27.72	1716.44	24.88	1717.48	25.14	1715.89
1/9/04	26.47	1716.07	29.41	1716.63	26.72	1717.44	25.51	1716.85	25.29	1715.74
2/4/04	26.47	1716.07	28.99	1717.05	26.73	1717.43	25.28	1717.08	24.93	1716.1
3/15/04	27.58	1714.96	27.39	1718.65	28.14	1716.02	25.28	1717.08	24.12	1716.91
4/1/04	27.63	1714.91	28.44	1717.60	27.77	1716.39	25.93	1716.43	24.83	1716.20
5/3/04	27.73	1714.81	27.62	1718.42	26.96	1717.20	25.68	1716.68	24.25	1716.78
6/10/04	25.29	1717.25	28.49	1717.55	27.18	1716.98	25.48	1716.88	24.84	1716.19
7/12/04	26.82	1715.72	26.95	1719.09	25.63	1718.53	25.03	1717.33	23.67	1717.36
8/4/04	27.13	1715.41	29.05	1716.99	25.63	1718.53	26.14	1716.22	25.22	1715.81
9/7/04	27.78	1714.76	29.99	1716.05	26.69	1717.47	26.76	1715.6	25.88	1715.15
10/12/04	28.21	1714.33	30.29	1715.75	25.34	1718.82	27.37	1714.99	27.04	1713.99
11/10/04	28.26	1714.28	29.89	1716.15	24.78	1719.38	27.31	1715.05	25.94	1715.09
12/6/04	28.16	1714.38	29.68	1716.36	24.92	1719.24	27.1	1715.26	25.69	1715.34
1/8/05	27.66	1714.88	28.52	1717.52	28.52	1715.64	25.92	1716.44	24.44	1716.59
2/1/05	27.04	1715.50	27.16	1718.88	27.16	1717.00	25.26	1717.1	23.65	1717.38
3/10/05	27.32	1715.22	28.73	1717.31	28.73	1715.43	25.94	1716.42	24.84	1716.19
4/11/05	27.03	1715.51	28.39	1717.65	24.51	1719.65	26.05	1716.31	24.76	1716.27
5/3/05	27.31	1715.23	28.87	1717.17	25.33	1718.83	26.27	1716.09	25.41	1715.62
6/15/05	26.71	1715.83	28.23	1717.81	24.33	1719.83	25.44	1716.92	24.54	1716.49

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA FACILITY  
 GROUNDWATER ELEVATIONS  
 SELECTED ON-SITE WELLS**

TOC---->	M-85 1741.19		M-86 1744.23		M-87 1744.13		M-88 1739.36		M-89 1766.2	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
4/27/98	26.66	1714.53	27.77	1714.96	27.63	1714.64	22.64	1715.35	32.59	1732.66
9/14/98	25.53	1715.66	26.42	1716.31	26.70	1715.57	22.78	1715.21	33.43	1731.82
12/15/98	25.80	1715.39	26.59	1716.14	26.68	1715.59	21.63	1716.36	33.13	1732.12
2/4/99	25.27	1715.92	26.70	1716.03	26.32	1715.95	22.81	1715.18	32.95	1732.30
3/24/99	26.22	1714.97	27.00	1715.73	27.13	1715.14	22.53	1715.46	33.00	1732.25
5/4/99	27.37	1713.82	27.88	1714.85	27.49	1714.78	22.87	1715.12	32.84	1732.41
8/9/99	27.49	1713.70	28.78	1713.95	28.52	1713.75	23.78	1714.21	33.51	1731.74
11/8/99	28.74	1712.45	29.92	1712.81	29.05	1713.22	24.54	1713.45	33.83	1731.42
1/31/00	29.42	1711.77	30.51	1712.22	29.65	1712.62	24.92	1713.07	33.43	1731.82
5/1/00	29.41	1711.78	30.80	1711.93	30.01	1712.26	25.25	1712.74	33.46	1731.79
9/18/00	31.14	1710.05	31.90	1710.83	30.75	1711.52	26.06	1711.93	33.93	1731.32
11/13/00	31.20	1709.99	32.03	1710.70	31.06	1711.21	26.34	1711.65	33.09	1732.16
2/1/01	31.62	1709.57	32.52	1710.21	31.40	1710.87	26.65	1711.34	33.71	1731.54
5/1/01	31.03	1710.16	32.45	1710.28	31.44	1710.83	26.77	1711.22	33.47	1731.78
9/1/01	31.62	1709.57	33.00	1709.73	32.47	1709.80	27.98	1710.01	33.89	1731.36
11/1/01	28.88	1712.31	30.25	1712.48	35.35	1706.92	30.34	1707.65	33.73	1731.52
3/1/02	26.22	1714.97	30.00	1712.73	35.29	1706.98	30.49	1707.50	33.09	1732.16
5/1/02	27.21	1713.98	31.80	1710.93	36.00	1706.27	30.70	1707.29	32.83	1732.42
9/9/02	23.01	1718.18	28.25	1715.98	34.67	1709.46	30.50	1708.86	32.92	1733.28
12/9/02	23.66	1717.53	29.96	1714.27	34.60	1709.53	30.54	1708.82	33.31	1732.89
1/20/03	23.69	1717.50	28.18	1716.05	34.24	1709.89	31.23	1708.13	33.29	1732.91
5/5/03	25.57	1715.62	28.39	1715.84	33.69	1710.44	30.41	1708.95	33.37	1732.83
7/9/03	24.50	1716.69	28.52	1715.71	34.03	1710.10	30.57	1708.79	33.46	1732.74
8/13/03	23.95	1717.24	27.80	1716.43	33.75	1710.38	30.50	1708.86	33.50	1732.70
9/8/03	25.23	1715.96	28.76	1715.47	34.12	1710.01	30.62	1708.74	33.54	1732.66
10/14/03	26.00	1715.19	29.51	1714.72	34.54	1709.59	30.73	1708.63	33.67	1732.53
11/12/03	27.33	1713.86	30.25	1713.98	34.95	1709.18	30.84	1708.52	30.77	1735.43
12/8/03	26.63	1714.56	29.31	1714.92	34.94	1709.19	30.93	1708.43	33.84	1732.36
1/9/04	26.46	1714.73	28.57	1715.66	34.23	1709.9	30.97	1708.39	33.94	1732.26
2/4/04	26.62	1714.57	28.63	1715.6	34.59	1709.54	30.89	1708.47	33.99	1732.21
3/15/04	26.18	1715.01	29.45	1714.78	34.59	1709.54	30.68	1708.68	33.77	1732.43
4/1/04	26.51	1714.68	29.33	1714.90	34.79	1709.34	31.03	1708.33	32.15	1734.05
5/3/04	26.33	1714.86	28.73	1715.50	34.33	1709.80	30.89	1708.47	32.73	1733.47
6/10/04	26.77	1714.42	28.98	1715.25	34.42	1709.71	31.04	1708.32	33.21	1732.99
7/12/04	25.91	1715.28	27.81	1716.42	33.79	1710.34	30.93	1708.43	33.57	1732.63
8/4/04	26.63	1714.56	28.06	1716.17	34.28	1709.85	30.79	1708.57	33.57	1732.63
9/7/04	27.03	1714.16	28.33	1715.90	33.06	1711.07	30.68	1708.68	33.76	1732.44
10/12/04	26.96	1714.23	27.73	1716.50	33.23	1710.9	30.68	1708.68	33.33	1732.87
11/10/04	26.64	1714.55	27.32	1716.91	32.89	1711.24	30.66	1708.70	32.96	1733.24
12/6/04	26.48	1714.71	27.34	1716.89	32.71	1711.42	30.46	1708.90	32.77	1733.43
1/8/05	24.82	1716.37	26.16	1718.07	31.19	1712.94	29.64	1709.72	32.27	1733.93
2/1/05	24.43	1716.76	25.31	1718.92	31.01	1713.12	29.15	1710.21	32.27	1733.93
3/10/05	25.96	1715.23	27.42	1716.81	31.51	1712.62	29.06	1710.30	31.84	1734.36
4/11/05	25.95	1715.24	27.09	1717.14	32.36	1711.77	29.50	1709.86	31.85	1734.35
5/3/05	26.62	1714.57	27.75	1716.48	32.59	1711.54	29.58	1709.78	31.88	1734.32
6/15/05	25.74	1715.45	26.79	1717.44	32.01	1712.12	29.41	1709.95	31.40	1734.80

**APPENDIX B**  
**GROUNDWATER ELEVATIONS OF SELECTED**  
**OFF-SITE WELLS**

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA  
 GROUNDWATER ELEVATIONS  
 SELECTED OFF-SITE WELLS**

TOC	ARP-1 1613.32		ARP-2 1612.79		ARP-3 1612.17		ARP-4 1613.01		ARP-5 1615.01	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
11/7/01										
12/13/01										
1/21/02	15.30	1598.02	14.96	1597.83	15.08	1597.09	16.54	1596.47	19.49	1595.52
2/21/02	15.66	1597.66	15.36	1597.43	15.57	1596.60	17.17	1595.84	20.13	1594.88
3/19/02	15.83	1597.49	15.52	1597.27	15.83	1596.34	17.49	1595.52	20.53	1594.48
4/30/02	16.18	1597.14	15.90	1596.89	16.26	1595.91	18.04	1594.97	21.12	1593.89
6/17/02										
7/2/02	16.94	1596.38	16.71	1596.08	17.13	1595.04	18.99	1594.02	22.21	1592.80
8/7/02	18.65	1594.67	18.00	1594.79	18.21	1593.96	20.22	1592.79		
9/12/02	19.12	1594.20	19.21	1593.58	19.29	1592.88	21.72	1591.29		
10/22/02	16.27	1597.05	16.06	1596.73	16.35	1595.82	18.32	1594.69		
11/14/02										
11/27/02	19.31	1594.01	19.11	1593.68	19.04	1593.13	20.42	1592.59		
12/11/02	20.22	1593.10	19.95	1592.84	19.98	1592.19	21.71	1591.30		
12/16/02										
1/7/03	20.53	1592.79	20.48	1592.31	20.56	1591.61	21.92	1591.09	24.84	1590.17
2/11/03	20.04	1593.28	20.93	1591.86	21.14	1591.03	22.65	1590.36	25.66	1589.35
3/12/03	21.73	1591.59	21.57	1591.22	22.92	1589.25	23.26	1589.75	26.24	1588.77
4/8/03	21.93	1591.39	21.82	1590.97	22.01	1590.16	23.52	1589.49	26.62	1588.39
5/6/03	22.16	1591.16	22.00	1590.79	22.29	1589.88	23.72	1589.29	26.92	1588.09
6/4/03	22.41	1590.91	22.27	1590.52	22.50	1589.67	24.00	1589.01	27.14	1587.87
7/9/03	22.29	1591.03	22.13	1590.66	22.3	1589.87	23.91	1589.10	27.51	1587.5
8/13/03			22.02	1590.77	22.35	1589.82	23.95	1589.06	27.5	1587.51
9/8/03	22.11	1591.21	21.97	1590.82	22.31	1589.86	23.87	1589.14	27.43	1587.58
10/14/03	22.33	1590.99	22.2	1590.59	22.45	1589.72	24.03	1588.98	27.33	1587.68
11/12/03	22.34	1590.98	22.23	1590.56	22.51	1589.66	24.12	1588.89	27.41	1587.6
12/8/03	22.33	1590.99	22.21	1590.58	22.52	1589.65	24.13	1588.88	27.48	1587.53
1/14/04	22.06	1591.26	21.92	1590.87	22.26	1589.91	24.01	1589.00	27.39	1587.62
2/11/04	21.54	1591.78	21.38	1591.41	21.64	1590.53	23.26	1589.75	26.51	1588.5
3/9/04	20.96	1592.36	20.77	1592.02	21.04	1591.13	22.74	1590.27	25.99	1589.02
4/13/04	21.03	1592.29	20.87	1591.92	21.11	1591.06	22.67	1590.34	26.02	1588.99
5/11/04	21.56	1591.76	21.41	1591.38	21.65	1590.52	23.18	1589.83	26.41	1588.6
6/9/04	22.01	1591.31	21.87	1590.92	22.14	1590.03	23.42	1589.59	26.99	1588.02
7/9/04	22.46	1590.86	22.31	1590.48	22.58	1589.59	24.09	1588.92	27.26	1587.75
8/10/04	22.23	1591.09	22.08	1590.71	22.38	1589.79	24.06	1588.95	27.29	1587.72
9/7/04	22.49	1590.83	22.41	1590.38	22.67	1589.5	24.23	1588.78	27.58	1587.43
10/12/04	22.31	1591.01	22.17	1590.62	22.53	1589.64	24.19	1588.82	17.39	1597.62
11/10/04	22.19	1591.13	22.09	1590.7	22.42	1589.75	23.97	1589.04	27.24	1587.77
12/6/04	22.47	1590.85	22.33	1590.46	22.68	1589.49	24.09	1588.92	27.26	1587.75
1/12/05	23.39	1589.93	22.24	1590.55	22.48	1589.69	23.87	1589.14	27.19	1587.82
2/8/05	22.29	1591.03	22.14	1590.65	22.42	1589.75	23.89	1589.12	27.02	1587.99
3/10/05	21.97	1591.35	21.84	1590.95	22.09	1590.08	23.61	1589.4	26.73	1588.28
4/12/05	21.96	1591.36	21.82	1590.97	22.14	1590.03	23.64	1589.37	26.41	1588.6
5/11/05	22.16	1591.16	22.02	1590.77	22.32	1589.85	23.77	1589.24	26.62	1588.39
6/14/05	22.17	1591.15	22.01	1590.78	22.32	1589.85	23.87	1589.14	26.73	1588.28

**KERR-McGEE CHEMICAL LLC  
HENDERSON, NEVADA  
GROUNDWATER ELEVATIONS  
SELECTED OFF-SITE WELLS**

TOC-->	ARP-6/6A 1615.28		ARP-7 1613.20		ART-1 1614.47		ART-1A 1614.40		ART-2 1617.10	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
11/7/01									17.88	1599.22
12/13/01									18.21	1598.89
1/21/02	20.09	1595.19	17.99	1595.21	15.90	1598.57			18.70	1598.40
2/21/02	20.74	1594.54	18.63	1594.57	15.08	1599.39			17.67	1599.43
3/19/02	21.12	1594.16	19.04	1594.16						
4/30/02	21.75	1593.53	19.63	1593.57	15.46	1599.01			18.05	1599.05
6/17/02										
7/2/02	22.81	1592.47	20.69	1592.51						
8/7/02	23.91	1591.37	21.88	1591.32						
9/12/02	25.14	1590.14	23.42	1589.78						
10/22/02										
11/14/02										
11/27/02										
12/11/02	24.97	1590.31								
12/16/02										
1/7/03	25.28	1590.00	35.52	1577.68						
2/11/03										
3/12/03	26.38	1588.90	24.42	1588.78						
4/8/03	26.99	1588.29	24.75	1588.45						
5/6/03	27.36	1587.92	25.35	1587.85						
6/4/03	27.68	1587.60	25.49	1587.71	37.98	1576.49			26.15	1590.95
7/9/03	27.92	1587.36	25.73	1587.47	38.02	1576.45			27.89	1589.21
8/13/03	28.8	1586.48	25.8	1587.40	30.52	1583.95			25.7	1591.40
9/8/03	27.9	1587.38	25.7	1587.50	32.95	1581.52			25.54	1591.56
10/14/03	27.79	1587.49	26.63	1586.57	37.29	1577.18			25.76	1591.34
11/12/03	27.88	1587.40	25.64	1587.56	37.74	1576.73			25.91	1591.19
12/8/03	27.97	1587.31	25.73	1587.47	37.75	1576.72	22.31	1592.09	25.84	1591.26
1/12/04	27.89	1587.39	25.66	1587.54	22.17	1592.3	22.31	1592.09	25.63	1591.47
2/10/04	27.01	1588.27	24.77	1588.43	21.63	1592.84	21.73	1592.67	25.16	1591.94
3/8/04	26.41	1588.87	24.19	1589.01	21.02	1593.45	21.07	1593.33	24.56	1592.54
4/13/04	26.47	1588.81	24.22	1588.98	21.18	1593.29	21.23	1593.17	24.74	1592.36
5/11/04	26.91	1588.37	24.63	1588.57	24.66	1589.81	21.39	1593.01	25.28	1591.82
6/9/04			25.22	1587.98	25.93	1588.54	21.92	1592.48	25.52	1591.58
7/9/04			24.01	1589.19	27.91	1586.56	22.42	1591.98	26.16	1590.94
8/10/04			25.49	1587.71	27.79	1586.68	21.21	1593.19	25.91	1591.19
9/7/04			25.85	1587.35	29.48	1584.99	22.46	1591.94	26.23	1590.87
10/12/04					30.67	1583.8	22.21	1592.19	25.97	1591.13
11/10/04			25.46	1587.74	37.68	1576.79	22.07	1592.33	25.83	1591.27
12/6/04			25.42	1587.78	37.55	1576.92	22.42	1591.98	26.27	1590.83
1/12/05	26.31	1588.97	25.36	1587.84	22.32	1592.15	22.53	1591.87	25.34	1591.76
2/8/05	26.08	1589.2	25.18	1588.02	37.67	1576.8	22.16	1592.24	25.97	1591.13
3/10/05	27.79	1587.49	24.91	1588.29	22.06	1592.41	22.14	1592.26	24.98	1592.12
4/12/05	25.63	1589.65	24.68	1588.52	37.51	1576.96	21.84	1592.56	24.63	1592.47
5/11/05	25.71	1589.57	24.77	1588.43	22.08	1592.39	22.26	1592.14	25.08	1592.02
6/14/05	25.83	1589.45	24.88	1588.32	37.71	1576.76	22.04	1592.36	24.83	1592.27

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA  
 GROUNDWATER ELEVATIONS  
 SELECTED OFF-SITE WELLS**

TOC-->	ART-2A 1616.81		ART-3 1617.94		ART-3A 1617.60		ART-4 1617.46		ART-4A 1617.46	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
11/7/01							18.53	1598.93		
12/13/01			18.30	1599.64			18.86	1598.60		
1/21/02			19.50	1598.44			19.65	1597.81		
2/21/02			18.64	1599.30			18.59	1598.87		
3/19/02										
4/30/02			18.30	1599.64			19.13	1598.33		
6/17/02			19.50	1598.44						
7/2/02										
8/7/02										
9/12/02										
10/22/02										
11/14/02							22.20	1595.26		
11/27/02										
12/11/02										
12/16/02							23.68	1593.78		
1/7/03										
2/11/03										
3/12/03										
4/8/03										
5/6/03										
6/4/03			39.28	1578.66			40.38	1577.08		
7/9/03			39.7	1578.24			31.41	1586.05		
8/13/03			41.85	1576.09						
9/8/03			42.25	1575.69			40.32	1577.14		
10/14/03			42.05	1575.89			40.25	1577.21		
11/12/03			40.32	1577.62			40.41	1577.05		
12/8/03	25.02	1591.79	41.31	1576.63	26.76	1590.84	40.32	1577.14	27.02	1590.44
1/12/04	24.84	1591.97	27.32	1590.62	30.18	1587.42	26.23	1591.23	42.99	1574.47
2/10/04	24.32	1592.49	26.96	1590.98	29.61	1587.99	25.76	1591.7	42.25	1575.21
3/8/04	23.67	1593.14	26.08	1591.86	27.99	1589.61	31.17	1586.29	25.24	1592.22
4/13/04	23.86	1592.95	26.25	1591.69	28.44	1589.16	34.63	1582.83	25.42	1592.04
5/11/04	24.37	1592.44	39.38	1578.56	26.44	1591.16	31.44	1586.02	25.79	1591.67
6/9/04	24.66	1592.15	39.09	1578.85	26.77	1590.83	26.11	1591.35	42.81	1574.65
7/9/04	25.21	1591.6	27.92	1590.02	31.13	1586.47	37.37	1580.09	26.86	1590.6
8/10/04	24.97	1591.84	39.68	1578.26	26.93	1590.67	37.09	1580.37	26.62	1590.84
9/7/04	25.34	1591.47	28.04	1589.9	31.21	1586.39	40.28	1577.18	26.96	1590.5
10/12/04	25.01	1591.8	27.73	1590.21	31.02	1586.58	40.29	1577.17	26.87	1590.59
11/10/04	24.82	1591.99	27.84	1590.1	32.14	1585.46	40.32	1577.14	26.62	1590.84
12/6/04	25.28	1591.53	28.32	1589.62	32.77	1584.83	40.28	1577.18	26.99	1590.47
1/12/05	25.85	1590.96	28.54	1589.4	34.31	1583.29	26.46	1591	43.47	1573.99
2/8/05	24.92	1591.89	39.09	1578.85	27.21	1590.39	41.99	1575.47	26.77	1590.69
3/10/05	25.49	1591.32	27.64	1590.3	32.03	1585.57	26.07	1591.39	43.44	1574.02
4/12/05	24.63	1592.18	38.33	1579.61	26.82	1590.78	40.34	1577.12	26.48	1590.98
5/11/05	25.57	1591.24	27.58	1590.36	31.29	1586.31	26.15	1591.31	42.26	1575.2
6/14/05	24.83	1591.98	38.52	1579.42	26.81	1590.79	36.04	1581.42	26.45	1591.01



**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA  
 GROUNDWATER ELEVATIONS  
 SELECTED OFF-SITE WELLS**

TOC-->	ART-5 1614.06		ART-6 1615.31		ART-6A 1614.71		ART-7 1615.38		ART-7A 1614.78	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
11/7/01	15.57	1598.49	17.73	1597.58			17.83	1597.55		
12/13/01	17.60	1596.46	17.77	1597.54			18.81	1596.57		
1/21/02	16.70	1597.36	18.70	1596.61			18.65	1596.73		
2/21/02	16.59	1597.47	18.54	1596.77			18.68	1596.70		
3/19/02										
4/30/02	17.85	1596.21	19.09	1596.22			19.21	1596.17		
6/17/02										
7/2/02										
8/7/02										
9/12/02										
10/22/02	19.45	1594.61								
11/14/02	20.67	1593.39								
11/27/02	21.14	1592.92								
12/11/02	21.58	1592.48								
12/16/02	21.70	1592.36								
1/7/03	22.4	1591.66								
2/11/03	22.88	1591.18								
3/12/03	23.35	1590.71								
4/8/03										
5/6/03										
6/4/03	24.62	1589.44	30.80	1584.51			27.60	1587.78		
7/9/03	23.75	1590.31	31.01	1584.30			27.63	1587.75		
8/13/03	25.65	1588.41	30.9	1584.41			25.77	1589.61		
9/8/03	24.60	1589.46	31.09	1584.22			27.55	1587.83		
10/14/03	24.58	1589.48	31.52	1583.79			27.47	1587.91		
11/12/03	24.64	1589.42	31.42	1583.89			27.55	1587.83		
12/8/03	24.65	1589.41	31.26	1584.05	25.87	1588.84	27.65	1587.73	25.59	1589.19
1/12/04	24.77	1589.29	26.71	1588.6	32.43	1582.28	28.02	1587.36	25.91	1588.87
2/10/04	24.03	1590.03	25.9	1589.41	32.47	1582.24	27.00	1588.38	24.96	1589.82
3/8/04	23.46	1590.6	30.41	1584.9	25.24	1589.47	26.71	1588.67	24.63	1590.15
4/13/04	23.62	1590.44	30.71	1584.6	25.09	1589.62	26.61	1588.77	24.56	1590.22
5/11/04	23.92	1590.14	30.73	1584.58	25.18	1589.53	26.84	1588.54	24.85	1589.93
6/9/04	24.47	1589.59	26.24	1589.07	32.46	1582.25	27.27	1588.11	25.27	1589.51
7/9/04	24.69	1589.37	31.59	1583.72	25.92	1588.79	26.28	1589.10	26.87	1587.91
8/10/04	24.71	1589.35	31.71	1583.60	25.98	1588.73	26.99	1588.39	26.41	1588.37
9/7/04	24.79	1589.27	32.56	1582.75	26.18	1588.53	26.63	1588.75	27.23	1587.55
10/12/04	24.77	1589.29	32.32	1582.99	26.06	1588.65	26.44	1588.94	27.08	1587.7
11/10/04	24.61	1589.45	32.69	1582.62	25.87	1588.84	26.28	1589.1	26.92	1587.86
12/6/04	24.33	1589.73	32.62	1582.69	25.78	1588.93	26.13	1589.25	26.77	1588.01
1/12/05	23.97	1590.09	26.24	1589.07	32.33	1582.38	26.04	1589.34	26.56	1588.22
2/8/05	24.07	1589.99	31.02	1584.29	25.49	1589.22	26.77	1588.61	25.02	1589.76
3/10/05	23.51	1590.55	25.63	1589.68	32.34	1582.37	25.39	1589.99	25.84	1588.94
4/12/05	23.66	1590.4	31.16	1584.15	25.07	1589.64	26.24	1589.14	24.49	1590.29
5/11/05	23.62	1590.44	25.49	1589.82	31.32	1583.39	25.19	1590.19	25.72	1589.06
6/14/05	23.96	1590.1	30.48	1584.83	25.22	1589.49	26.47	1588.91	24.71	1590.07

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA  
 GROUNDWATER ELEVATIONS  
 SELECTED OFF-SITE WELLS**

TOC-->	ART-8 1617.69		ART-8A 1617.10		L-635 1620.94		L-637 1621.60		MW-K2 1618.83	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
11/7/01										
12/13/01					13.69	1607.25	9.54	1612.06		
1/21/02	18.80	1598.89			13.82	1607.12	9.56	1612.04	18.52	1600.31
2/21/02	18.35	1599.34			13.89	1607.05	9.61	1611.99	18.74	1600.09
3/19/02					13.85	1607.09	9.65	1611.95	18.81	1600.02
4/30/02	18.75	1598.94			13.93	1607.01	9.70	1611.90		
6/17/02										
7/2/02					14.11	1606.83	9.83	1611.77	19.76	1599.07
8/7/02					14.94	1606.00	10.62	1610.98	21.33	1597.50
9/12/02					16.22	1604.72	11.12	1610.48	21.86	1596.97
10/22/02					13.87	1607.07	9.88	1611.72	19.42	1599.41
11/14/02										
11/27/02					14.27	1606.67	10.21	1611.39	23.08	1595.75
12/11/02					15.51	1605.43	10.82	1610.78	23.60	1595.23
12/16/02									24.31	1594.52
1/7/03									24.31	1594.52
2/11/03									DRY	
3/12/03					14.98	1605.96	10.13	1611.47	DRY	
4/8/03					15.09	1605.85	10.44	1611.16	DRY	
5/6/03					15.40	1605.54	10.66	1610.94	DRY	
6/4/03	26.65	1591.04			15.34	1605.60	10.85	1610.75	DRY	
7/9/03	26.36	1591.33			15.34	1605.60	10.98	1610.62	DRY	
8/13/03	26.37	1591.32							DRY	
9/8/03	26.21	1591.48							DRY	
10/14/03	26.39	1591.30			15.29	1605.65	10.63	1610.97	DRY	
11/12/03	27.65	1590.04			15.41	1605.53	10.73	1610.87	DRY	
12/8/03	27.59	1590.10	27.71	1589.39	15.37	1605.57	10.72	1610.88	DRY	
1/12/04	26.33	1591.36	27.31	1589.39	15.29	1605.65	10.67	1610.93	DRY	
2/10/04	25.24	1592.45	28.78	1589.39	15.22	1605.72	10.64	1610.96	DRY	
3/8/04	28.11	1589.58	24.53	1589.39	14.91	1606.03	10.36	1611.24	DRY	
4/13/04	25.34	1592.35	26.46	1589.39	14.95	1605.99	10.34	1611.26	DRY	
5/11/04	28.91	1588.78	25.19	1589.39	15.17	1605.77	10.54	1611.06	DRY	
6/9/04	29.31	1588.38	25.51	1591.59	15.29	1605.65	10.67	1610.93	DRY	
7/9/04	26.68	1591.01	27.99	1589.11	15.42	1605.52	10.78	1610.82	DRY	
8/10/04	26.40	1591.29	27.67	1589.43	15.29	1605.65	10.65	1610.95	DRY	
9/7/04	26.76	1590.93	27.87	1589.23	15.41	1605.53	10.67	1610.93	DRY	
10/12/04	26.47	1591.22	27.49	1589.61	15.01	1605.93	10.11	1611.49	DRY	
11/10/04	26.33	1591.36	27.06	1590.04	15.03	1605.91	10.32	1611.28	DRY	
12/6/04	26.87	1590.82	28.16	1588.94	15.16	1605.78	10.39	1611.21	DRY	
1/12/05	26.64	1591.05	27.95	1589.15	14.77	1606.17	9.91	1611.69	DRY	
2/8/05	29.58	1588.11	25.96	1591.14	15.02	1605.92	10.08	1611.52	DRY	
3/10/05	26.17	1591.52	27.52	1589.58	14.97	1605.97	9.76	1611.84	DRY	
4/12/05	29.26	1588.43	25.51	1591.59	14.89	1606.05	10.06	1611.54	DRY	
5/11/05	26.24	1591.45	27.64	1589.46	15.02	1605.92	10.19	1611.41	DRY	
6/14/05	26.28	1591.41	27.71	1589.39	15.09	1605.85	10.34	1611.26	DRY	

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA  
 GROUNDWATER ELEVATIONS  
 SELECTED OFF-SITE WELLS**

TOC-->	MW-K4 1614.96		MW-K5 1598.87		PC-10 1618.95		PC-12 1616.37		PC-17 1617.00	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
11/7/01							17.49	1598.88		
12/13/01	17.90	1597.06			19.32	1599.63	17.38	1598.99	17.00	1600.00
1/21/02	18.48	1596.48	19.58	1579.29	19.49	1599.46	18.13	1598.24	17.40	1599.60
2/21/02	19.05	1595.91	20.34	1578.53	20.30	1598.65	18.80	1597.57	17.70	1599.30
3/19/02	19.35	1595.61			20.71	1598.24	19.26	1597.11	17.86	1599.14
4/30/02							19.89	1596.48	18.14	1598.86
6/17/02										
7/2/02	20.72	1594.24	24.01	1574.86	22.43	1596.52	20.98	1595.39	18.93	1598.07
8/7/02	21.78	1593.18	24.20	1574.67	23.4	1595.55	22.8	1593.57	20.5	1596.50
9/12/02			13.85	1585.02	25.29	1593.66	23.68	1592.69	21.13	1595.87
10/22/02	19.94	1595.02	13.28	1585.59	22.76	1596.19	20.91	1595.46	19.37	1597.63
11/14/02										
11/27/02	23.36	1591.60	20.33	1578.54	23.74	1595.21	23.33	1593.04	22.82	1594.18
12/11/02	23.59	1591.37	21.46	1577.41			24.21	1592.16	23.88	1593.12
12/16/02					24.2	1594.75				
1/7/03	24.21	1590.75	24.22	1574.65			24.39	1591.98	24.21	1592.79
2/11/03	24.69	1590.27	23.83	1575.04	25.32	1593.63	24.11	1592.26	24.6	1592.40
3/12/03	25.36	1589.60	23.68	1575.19	25.98	1592.97	25.58	1590.79	25.65	1591.35
4/8/03	25.63	1589.33	24.49	1574.38	26.16	1592.79	26.02	1590.35	25.78	1591.22
5/6/03	26.02	1588.94	25.39	1573.48	26.63	1592.32	26.33	1590.04	25.51	1591.49
6/4/03	26.13	1588.83	24.53	1574.34	26.83	1592.12	26.37	1590.00	25.74	1591.26
7/9/03	26.00	1588.96	26.26	1572.61	27.28	1591.67	27.01	1589.36	25.43	1591.57
8/13/03	26.00	1588.96	26.6	1572.27	27.22	1591.73	26.7	1589.67	25.35	1591.65
9/8/03	25.96	1589.00	24.64	1574.23	27.25	1591.70	26.68	1589.69	25.39	1591.61
10/14/03	26.14	1588.82	26.81	1572.06	26.89	1592.06	26.45	1589.92	25.52	1591.48
11/12/03	26.18	1588.78	25.71	1573.16	26.95	1592.00	26.53	1589.84	25.61	1591.39
12/8/03	26.21	1588.75	26.40	1572.47	26.95	1592.00	26.54	1589.83	25.59	1591.41
1/12/04	25.99	1588.97	14.79	1584.08	27.19	1591.76	26.69	1589.68	25.44	1591.56
2/10/04	25.26	1589.7	20.99	1577.88	26.49	1592.46	25.94	1590.43	25.17	1591.83
3/8/04	24.61	1590.35	20.15	1578.72	26.13	1592.82	25.79	1590.58	24.48	1592.52
4/13/04	24.66	1590.3	22.51	1576.36	P&A		25.38	1590.99	24.46	1592.54
5/11/04	25.23	1589.73	24.07	1574.80			25.92	1590.45	25.12	1591.88
6/9/04	27.81	1587.15	25.43	1573.44			26.24	1590.13	25.52	1591.48
7/9/04	26.22	1588.74	25.27	1573.60			25.57	1590.8	25.87	1591.13
8/10/04	26.08	1588.88	24.46	1574.41			26.68	1589.69	25.58	1591.42
9/7/04	26.33	1588.63	26.14	1572.73			26.77	1589.6	25.94	1591.06
10/12/04	26.19	1588.77	25.53	1573.34			26.73	1589.64	25.72	1591.28
11/10/04	26.07	1588.89	23.63	1575.24			26.62	1589.75	25.63	1591.37
12/6/04	26.24	1588.72	24.07	1574.8			26.42	1589.95	26.07	1590.93
1/12/05	26.11	1588.85	23.86	1575.01			26.22	1590.15	25.98	1591.02
2/8/05	26.09	1588.87	24.66	1574.21			26.04	1590.33	25.79	1591.21
3/10/05	25.78	1589.18	24.29	1574.58			25.63	1590.74	25.41	1591.59
4/12/05	25.82	1589.14	24.22	1574.65			25.53	1590.84	25.41	1591.59
5/11/05	25.95	1589.01	24.49	1574.38			25.41	1590.96	25.56	1591.44
6/14/05	25.90	1589.06	24.09	1574.78			25.71	1590.66	25.61	1591.39

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA  
 GROUNDWATER ELEVATIONS  
 SELECTED OFF-SITE WELLS**

TOC-->	PC-18 1618.47		PC-19 1617.62		PC-53 1595.03		PC-55 1617.19		PC-56 1568.25	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
11/7/01	18.22	1600.25					16.74	1600.45		
12/13/01	18.39	1600.08	17.21	1600.41						
1/21/02	18.73	1599.74	17.60	1600.02	16.62	1578.41	17.23	1599.96	5.18	1563.07
2/21/02	19.03	1599.44	17.86	1599.76	17.29	1577.74	17.48	1599.71		
3/19/02	19.13	1599.34	17.91	1599.71			17.59	1599.6		
4/30/02	19.44	1599.03	18.25	1599.37	18.62	1576.41	17.89	1599.3	6.34	1561.91
6/17/02										
7/2/02	20.14	1598.33	18.94	1598.68	21.02	1574.01				
8/7/02	21.56	1596.91	20.56	1597.06	21.48	1573.55				
9/12/02	22.16	1596.31	20.66	1596.96						
10/22/02	20.84	1597.63	18.63	1598.99	9.43	1585.60				
11/14/02										
11/27/02	24.01	1594.46	22.23	1595.39	17.28	1577.75				
12/11/02	25.82	1592.65	23.15	1594.47	18.45	1576.58				
12/16/02							22.45	1594.74		
1/7/03	25.06	1593.41	23.36	1594.26	21.87	1573.16				
2/11/03	25.61	1592.86	24.12	1593.50	20.7	1574.33				
3/12/03	26.12	1592.35	24.39	1593.23	20.71	1574.32				
4/8/03	26.95	1591.52	24.82	1592.80	21.40	1573.63			8.05	1560.20
5/6/03	26.60	1591.87	24.76	1592.86	22.28	1572.75	24.44	1592.75	9.17	1559.08
6/4/03	27.05	1591.42	25.17	1592.45	20.87	1574.16				
7/9/03	26.54	1591.93	P&A		22.38	1572.65				
8/13/03	26.55	1591.92			23.42	1571.61	24.37	1592.82		
9/8/03	26.5	1591.97			21.17	1573.86	24.43	1592.76	10.59	1557.66
10/14/03	26.67	1591.80			23.66	1571.37	24.61	1592.58	9.74	1558.51
11/12/03	26.75	1591.72			22.27	1572.76	24.67	1592.52	9.14	1559.11
12/8/03	26.71	1591.76			23.14	1571.89	24.63	1592.56	9.05	1559.20
1/12/04	26.41	1592.06	P & A		8.94	1586.09	24.32	1592.87	8.24	1560.01
2/10/04	26.01	1592.46			15.78	1579.25	23.91	1593.28	7.34	1560.91
3/8/04	25.38	1593.09			15.93	1579.1	23.31	1593.88	6.33	1561.92
4/13/04	25.53	1592.94			18.91	1576.12	23.47	1593.72	7.12	1561.13
5/11/04	26.04	1592.43			20.52	1574.51	23.94	1593.25	8.59	1559.66
6/9/04	26.32	1592.15			21.98	1573.05	24.27	1592.92	9.89	1558.36
7/9/04	26.91	1591.56			21.81	1573.22	24.76	1592.43	9.94	1558.31
8/10/04	26.68	1591.79			20.57	1574.46	24.52	1592.67	9.48	1558.77
9/7/04	27.01	1591.46			22.21	1572.82	24.85	1592.34	10.01	1558.24
10/12/04	26.76	1591.71			19.18	1575.85	24.61	1592.58	8.84	1559.41
11/10/04	26.57	1591.9			19.34	1575.69	24.42	1592.77	7.64	1560.61
12/6/04	26.93	1591.54			19.73	1575.3	24.86	1592.33	7.59	1560.66
1/12/05	26.64	1591.83			19.62	1575.41	24.53	1592.66	6.11	1562.14
2/8/05	26.67	1591.8			20.59	1574.44	24.51	1592.68	7.47	1560.78
3/10/05	26.23	1592.24			20.31	1574.72	24.18	1593.01	6.89	1561.36
4/12/05	26.31	1592.16			20.14	1574.89	24.19	1593.00	8.01	1560.24
5/11/05	26.47	1592.00			20.74	1574.29	24.41	1592.78	8.88	1559.37
6/14/05	26.49	1591.98			20.33	1574.7	24.41	1592.78	9.68	1558.57

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA  
 GROUNDWATER ELEVATIONS  
 SELECTED OFF-SITE WELLS**

TOC-->	PC-58 1567.96		PC-59 1567.92		PC-60 1568.38		PC-62 1567.83		PC-68 1566.97	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
11/7/01										
12/13/01										
1/21/02	4.96	1563.00	6.36	1561.56	5.02	1563.36	7.22	1560.61	6.50	1560.47
2/21/02										
3/19/02										
4/30/02	6.60	1561.36	7.85	1560.07	6.54	1561.84	8.58	1559.25	7.80	1559.17
6/17/02										
7/2/02										
8/7/02										
9/12/02										
10/22/02										
11/14/02										
11/27/02										
12/11/02										
12/16/02										
1/7/03										
2/11/03										
3/12/03										
4/8/03	7.62	1560.34	8.05	1559.87	7.93	1560.45			8.46	1558.51
5/6/03	8.68	1559.28	9.92	1558.00	9.11	1559.27			9.52	1557.45
6/4/03	9.98	1557.98	11.05	1556.87	9.87	1558.51			10.28	1556.69
7/9/03	10.89	1557.07	12.2	1555.72	11.14	1557.24	12.55	1555.28	11.46	1555.51
8/13/03										
9/8/03	10.1	1557.86	11.56	1556.36	10.49	1557.89	11.88	1555.95	10.8	1556.17
10/14/03	10.51	1557.45	10.43	1557.49	11.24	1557.14	11.54	1556.29	10.44	1556.53
11/12/03	9.71	1558.25	9.62	1558.3	10.65	1557.73	11.14	1556.69	10.07	1556.9
12/8/03	9.68	1558.28	9.61	1558.31	10.46	1557.92	10.87	1556.96	9.77	1557.2
1/12/04	8.34	1559.62	9.94	1557.98	8.20	1560.18	10.61	1557.22	9.52	1557.45
2/10/04	7.81	1560.15	7.76	1560.16	8.91	1559.47	9.58	1558.25	8.58	1558.39
3/8/04	5.21	1562.75	7.79	1560.13	6.23	1562.15	8.53	1559.30	7.57	1559.4
4/13/04	6.71	1561.25	8.09	1559.83	6.99	1561.39	8.67	1559.16	7.66	1559.31
5/11/04	7.97	1559.99	9.52	1558.4	8.49	1559.89	10.09	1557.74	9.03	1557.94
6/9/04	9.13	1558.83	10.82	1557.1	9.81	1558.57	11.27	1556.56	10.16	1556.81
7/9/04	9.29	1558.67	11.11	1556.81	9.84	1558.54	11.51	1556.32	10.54	1556.43
8/10/04	8.92	1559.04	10.93	1556.99	9.38	1559.00	11.57	1556.26	10.53	1556.44
9/7/04	9.17	1558.79	11.23	1556.69	9.93	1558.45	11.73	1556.1	10.64	1556.33
10/12/04	8.54	1559.42	10.29	1557.63	8.77	1559.61	10.99	1556.84	9.98	1556.99
11/10/04	7.63	1560.33	9.44	1558.48	7.71	1560.67	10.14	1557.69	8.99	1557.98
12/6/04	7.45	1560.51	8.62	1559.3	7.49	1560.89	9.13	1558.7	8.17	1558.8
1/12/05	5.85	1562.11	7.28	1560.64	6.09	1562.29	7.69	1560.14	6.58	1560.39
2/8/05	7.21	1560.75	8.19	1559.73	7.33	1561.05	8.66	1559.17	7.62	1559.35
3/10/05	6.02	1561.94	7.59	1560.33	6.77	1561.61	8.01	1559.82	6.93	1560.04
4/12/05	7.72	1560.24	8.82	1559.1	7.93	1560.45	9.18	1558.65	8.05	1558.92
5/11/05	7.86	1560.1	9.76	1558.16	8.79	1559.59	10.18	1557.65	9.05	1557.92
6/14/05	9.07	1558.89	10.85	1557.07	9.63	1558.75	11.32	1556.51	10.19	1556.78

**KERR-McGEE CHEMICAL LLC  
HENDERSON, NEVADA  
GROUNDWATER ELEVATIONS  
SELECTED OFF-SITE WELLS**

TOC-->	PC-86 1553.85		PC-89 1551.10		PC-91 1552.33		PC-95 1550.62		PC-97 1548.53	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
11/7/01										
12/13/01										
1/21/02	+ 0.30	1554.15	+ 0.60	1551.70	4.18	1548.15	1.45	1549.17	+ 0.10	1548.63
2/21/02							1.43	1549.19		
3/19/02										
4/30/02	0.38	1553.47	+ 0.12	1551.22	5.32	1547.01	1.83	1548.79	0.41	1548.12
6/17/02										
7/2/02	2.79	1551.06	3.06	1548.04	7.64	1544.69	3.66	1546.96	2.55	1545.98
8/7/02	3.08	1550.77	4.38	1546.72	8.73	1543.6	4.23	1546.39	3.26	1545.27
9/12/02	3.92	1549.93	4.90	1546.20	9.30	1543.03	5.23	1545.39	4.16	1544.37
10/22/02	0.20	1553.65	1.45	1549.65	5.81	1546.52	2.38	1548.24	1.31	1547.22
11/14/02										
11/27/02	0.40	1553.45	1.60	1549.50	4.91	1547.42	2.27	1548.35	0.80	1547.73
12/11/02	0.05	1553.80	1.14	1549.96	5.13	1547.2	2.50	1548.12	1.32	1547.21
12/16/02							2.40	1548.22		
1/7/03	0.7	1553.15	0.86	1550.24	4.86	1547.47	2.65	1547.97	0.38	1548.15
2/11/03	1.53	1552.32	3.28	1547.82	6.15	1546.18	3.7	1546.92	2.21	1546.32
3/12/03	2.73	1551.12	0.89	1550.21	6.16	1546.17	1.85	1548.77	3.22	1545.31
4/8/03	3.31	1550.54	4.60	1546.5	7.14	1545.19	4.58	1546.04	3.56	1544.97
5/6/03	4.37	1549.48	5.68	1545.42	8.38	1543.95	5.17	1545.45	4.15	1544.38
6/4/03	5.67	1548.18	7.10	1544	9.38	1542.95	6.25	1544.37	5.10	1543.43
7/9/03	7.81	1546.04	9.03	1542.07	10.32	1542.01	7.08	1543.54	6.04	1542.49
8/13/03	8.5	1545.35	8.55	1542.55	10.75	1541.58	7.67	1542.95	6.60	1541.93
9/8/03	7.28	1546.57	7.75	1543.35	10.25	1542.08	7.31	1543.31	6.02	1542.51
10/14/03	6.69	1547.16	7.33	1543.77	9.31	1543.02	6.70	1543.92	5.45	1543.08
11/12/03	6.09	1547.76	6.93	1544.17	9.12	1543.21	6.06	1544.56	4.94	1543.59
12/8/03	5.64	1548.21	4.73	1546.37	8.62	1543.71	5.18	1545.44	4.03	1544.50
1/12/04	5.49	1548.36	6.14	1544.96	8.51	1543.82	5.48	1545.14	4.35	1544.18
2/10/04	4.53	1549.32	3.37	1547.73	7.64	1544.69	5.86	1544.76	3.97	1544.56
3/8/04	3.14	1550.71	3.96	1547.14	6.89	1545.44	4.03	1546.59	2.76	1545.77
4/13/04	3.05	1550.8	4.18	1546.92	6.91	1545.42	4.06	1546.56	2.92	1545.61
5/11/04	4.37	1549.48	5.61	1545.49	8.08	1544.25	5.01	1545.61	4.11	1544.42
6/9/04	5.49	1548.36	6.71	1544.39	9.07	1543.26	5.98	1544.64	5.07	1543.46
7/9/04	5.78	1548.07	6.47	1544.63	9.55	1542.78	6.17	1544.45	5.18	1543.35
8/10/04	5.67	1548.18	6.74	1544.36	9.25	1543.08	6.15	1544.47	5.28	1543.25
9/7/04	5.71	1548.14	6.78	1544.32	8.95	1543.38	6.17	1544.45	5.13	1543.4
10/12/04	5.27	1548.58	6.28	1544.82	9.11	1543.22	5.87	1544.75	4.79	1543.74
11/10/04	4.24	1549.61	5.33	1545.77	8.52	1543.81	4.97	1545.65	3.91	1544.62
12/6/04	3.08	1550.77	4.36	1546.74	7.87	1544.46	4.22	1546.4	3.19	1545.34
1/12/05	0.93	1552.92	2.32	1548.78	6.23	1546.1	2.79	1547.83	1.67	1546.86
2/8/05	2.36	1551.49	3.76	1547.34	6.97	1545.36	3.77	1546.85	2.72	1545.81
3/10/05	1.84	1552.01	3.24	1547.86	6.53	1545.8	3.42	1547.2	2.41	1546.12
4/12/05	3.31	1550.54	4.67	1546.43	7.59	1544.74	4.38	1546.24	3.42	1545.11
5/11/05	4.41	1549.44	5.57	1545.53	8.38	1543.95	5.07	1545.55	4.19	1544.34
6/14/05	5.38	1548.47	6.51	1544.59	9.14	1543.19	5.89	1544.73	5.01	1543.52

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA  
 GROUNDWATER ELEVATIONS  
 SELECTED OFF-SITE WELLS**

TOC-->	PC-98R 1593.35		PC-99R2/R3 1552.55		PC-101R 1618.12		PC-103 1599.49		PC-115R 1554.71	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
11/7/01										
12/13/01										
1/21/02					18.61	1599.51	15.81	1583.68		
2/21/02					18.90	1599.22	16.60	1582.89		
3/19/02					19.10	1599.02				
4/30/02					19.41	1598.71	17.77	1581.72		
6/17/02										
7/2/02					21.11	1597.01	19.53	1579.96		
8/7/02					21.83	1596.29	19.89	1579.60		
9/12/02							19.54	1579.95		
10/22/02					19.7	1598.42	12.64	1586.85		
11/14/02										
11/27/02					23.91	1594.21	16.96	1582.53		
12/11/02					24.74	1593.38	17.82	1581.67		
12/16/02										
1/7/03					25.12	1593.00	21.12	1578.37		
2/11/03					25.55	1592.57	20.23	1579.26		
3/12/03					26.32	1591.80	20.56	1578.93		
4/8/03	18.35	1575.00			26.41	1591.71	20.78	1578.71		
5/6/03	19.3	1574.05			26.56	1591.56	21.50	1577.99		
6/4/03	18.42	1574.93	21.10	1531.45	26.96	1591.16	21.26	1578.23	21.50	1533.21
7/9/03	20.21	1573.14	18.70	1533.85	26.39	1591.73	22.12	1577.37	22.9	1531.81
8/13/03	18.45	1574.90	11.60	1540.95	26.6	1591.52	21.50	1577.99	22.2	1532.51
9/8/03	18.45	1574.90	11.68	1540.87	26.58	1591.54	20.66	1578.83	19.56	1535.15
10/14/03	20.50	1572.85	11.73	1540.82	26.74	1591.38	21.88	1577.61	15.95	1538.76
11/12/03	19.51	1573.84	16.26	1536.29	26.81	1591.31	21.53	1577.96	18.30	1536.41
12/8/03	20.16	1573.19	3.46	1549.09	26.46	1591.66	22.88	1576.61	15.71	1539.00
1/12/04	10.14	1583.21	16.91	1535.64	26.56	1591.56	18.61	1580.88	20.92	1533.79
2/10/04	15.83	1577.52	24.17	1528.38	26.17	1591.95	19.76	1579.73	20.96	1533.75
3/8/04	14.20	1579.15	8.42	1544.13	25.54	1592.58	17.77	1581.72	17.14	1537.57
4/13/04	16.38	1576.97	1.48	1551.07	25.54	1592.58	19.04	1580.45	17.26	1537.45
5/11/04	17.89	1575.46	2.93	1549.62	26.17	1591.95	20.33	1579.16	19.35	1535.36
6/9/04	19.25	1574.1	26.36	1526.19	26.51	1591.61	21.51	1577.98	23.14	1531.57
7/9/04	19.03	1574.32	29.91	1522.64	26.96	1591.16	21.25	1578.24	20.31	1534.4
8/10/04	18.28	1575.07	32.95	1519.60	26.74	1591.38	20.73	1578.76	22.10	1532.61
9/7/04	19.94	1573.41	30.58	1521.97	27.02	1591.1	21.85	1577.64	18.87	1535.84
10/12/04	17.51	1575.84	9.98	1542.57	26.81	1591.31	20.57	1578.92	32.92	1521.79
11/10/04	17.64	1575.71	30.76	1521.79	26.66	1591.46	20.54	1578.95	14.68	1540.03
12/6/04	18.03	1575.32	29.64	1522.91	27.04	1591.08	21.02	1578.47	13.77	1540.94
1/12/05	17.88	1575.47	17.58	1534.97	26.91	1591.21	21.11	1578.38	7.32	1547.39
2/8/05	18.56	1574.79	19.27	1533.28	26.84	1591.28	21.36	1578.13	11.68	1543.03
3/10/05	18.21	1575.14	17.25	1535.30	26.42	1591.7	21.04	1578.45	10.88	1543.83
4/12/05	18.16	1575.19	18.26	1534.29	25.99	1592.13	21.04	1578.45	17.03	1537.68
5/11/05	18.43	1574.92	23.63	1528.92	26.61	1591.51	21.24	1578.25	22.08	1532.63
6/14/05	18.13	1575.22	21.79	1530.76	26.69	1591.43	21.19	1578.3	18.65	1536.06

**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA  
 GROUNDWATER ELEVATIONS  
 SELECTED OFF-SITE WELLS**

TOC-->	PC-116R 1552.10		PC-117 1552.26		PC-118 1554.53		PC-119 1554.66		PC-120 1554.64	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
11/7/01										
12/13/01										
1/21/02										
2/21/02										
3/19/02										
4/30/02	1.62	1550.48								
6/17/02										
7/2/02										
8/7/02										
9/12/02										
10/22/02										
11/14/02										
11/27/02										
12/11/02										
12/16/02										
1/7/03										
2/11/03										
3/12/03										
4/8/03										
5/6/03										
6/4/03	21.70	1530.40	17.40	1534.86	13.20	1541.33	7.85	1546.81	6.50	1548.14
7/9/03	22.60	1529.50	17.9	1534.36	15.10	1539.43	10.7	1543.96	8.7	1545.94
8/13/03	21.43	1530.67	19.6	1532.66	16.23	1538.30	9.75	1544.91	8.97	1545.67
9/8/03	19.30	1532.80	19.3	1532.96	16.10	1538.43	9.12	1545.54	8.4	1546.24
10/14/03	17.94	1534.16	18.70	1533.56	15.81	1538.72	8.43	1546.23	7.63	1547.01
11/12/03	14.67	1537.43	18.66	1533.60	15.98	1538.55	8.03	1546.63	7.22	1547.42
12/8/03	13.69	1538.41	21.16	1531.10	15.14	1539.39	7.27	1547.39	7.71	1546.93
1/12/04	13.84	1538.26	19.84	1532.42	15.29	1539.24	7.71	1546.95	7.93	1546.71
2/10/04	11.05	1541.05	18.49	1533.77	14.00	1540.53	6.45	1548.21	6.63	1548.01
3/8/04	10.81	1541.29	9.02	1543.24	13.56	1540.97	5.17	1549.49	5.26	1549.38
4/13/04	28.5	1523.6	17.03	1535.23	12.8	1541.73	5.32	1549.34	4.44	1550.2
5/11/04	24.17	1527.93	13.08	1539.18	14.03	1540.5	6.46	1548.2	5.52	1549.12
6/9/04	27.15	1524.95	15.02	1537.24	15.22	1539.31	7.35	1547.31	6.41	1548.23
7/9/04	22.89	1529.21	16.00	1536.26	19.1	1535.43	7.74	1546.92	6.79	1547.85
8/10/04	26.98	1525.12	19.69	1532.57	22.18	1532.35	10.7	1543.96	9.59	1545.05
9/7/04	23.67	1528.43	16.82	1535.44	19.43	1535.1	7.69	1546.97	6.31	1548.33
10/12/04	27.24	1524.86	19.77	1532.49	17.69	1536.84	7.26	1547.4	9.22	1545.42
11/10/04	22.14	1529.96	15.89	1536.37	17.19	1537.34	5.85	1548.81	3.99	1550.65
12/6/04	20.31	1531.79	15.16	1537.1	12.49	1542.04	5.02	1549.64	3.21	1551.43
1/12/05	19.23	1532.87	14.61	1537.65	10.36	1544.17	5.63	1549.03	4.56	1550.08
2/8/05	22.96	1529.14	16.05	1536.21	8.16	1546.37	3.59	1551.07	2.43	1552.21
3/10/05	19.81	1532.29	15.28	1536.98	7.42	1547.11	3.28	1551.38	1.95	1552.69
4/12/05	18.77	1533.33	15.72	1536.54	9.81	1544.72	4.36	1550.3	3.76	1550.88
5/11/05	22.23	1529.87	18.26	1534.00	17.17	1537.36	8.75	1545.91	7.91	1546.73
6/14/05	20.28	1531.82	18.84	1533.42	15.35	1539.18	6.83	1547.83	5.99	1548.65



**KERR-McGEE CHEMICAL LLC  
 HENDERSON, NEVADA  
 GROUNDWATER ELEVATIONS  
 SELECTED OFF-SITE WELLS**

TOC-->	PC-121 1554.10		PC-122 1617.39	
	DTW	ELEV	DTW	ELEV
11/7/01				
12/13/01				
1/21/02				
2/21/02				
3/19/02				
4/30/02				
6/17/02				
7/2/02				
8/7/02				
9/12/02				
10/22/02				
11/14/02				
11/27/02				
12/11/02				
12/16/02				
1/7/03				
2/11/03				
3/12/03				
4/8/03				
5/6/03				
6/4/03	5.20	1548.90		
7/9/03	12.9	1541.20		
8/13/03	16.25	1537.85		
9/8/03	16.5	1537.60		
10/14/03	16.54	1537.56		
11/12/03	15.27	1538.83		
12/8/03	17.99	1536.11		
1/12/04	12.49	1541.61		
2/10/04	8.72	1545.38		
3/8/04	2.32	1551.78	26.82	1590.58
4/13/04	2.62	1551.48	26.73	1590.67
5/11/04	3.82	1550.28	27.02	1590.38
6/9/04	4.93	1549.17	27.47	1589.93
7/9/04	5.14	1548.96	27.76	1589.64
8/10/04	8.11	1545.99	27.88	1589.52
9/7/04	5.09	1549.01	28.01	1589.39
10/12/04	14.68	1539.42	27.97	1589.43
11/10/04	3.78	1550.32	27.75	1589.65
12/6/04	3.39	1550.71	27.67	1589.73
1/12/05	4.98	1549.12	27.54	1589.86
2/8/05	3.33	1550.77	27.26	1590.14
3/10/05	3.46	1550.64	26.89	1590.51
4/12/05	5.62	1548.48	26.66	1590.74
5/11/05	8.42	1545.68	26.71	1590.69
6/14/05	7.33	1546.77	26.85	1590.55