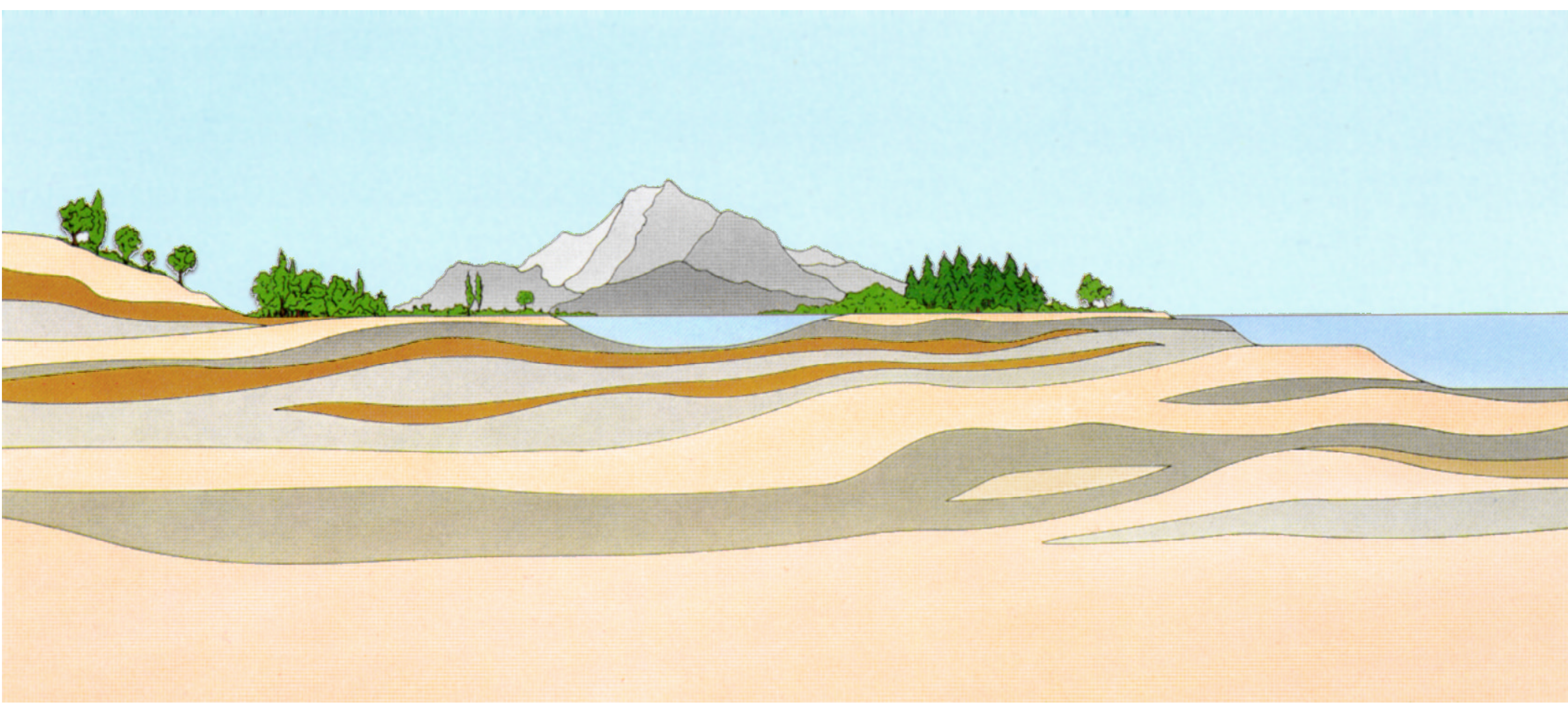
FUGRO WEST, INC.

ANNUAL REPORT
JULY 2008 THROUGH JUNE 2009
BIG ROCK MESA LANDSLIDE
ASSESSMENT DISTRICT
MALIBU, CALIFORNIA

Prepared for:
City of Malibu

October 2009
Fugro Job No. 3399.006



FUGRO WEST, INC.

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October 19, 2009
Project No. 3399.006

City of Malibu
23815 Stuart Ranch Road
Malibu, California 90265

Attention: Mr. Claudio Sanchez

Subject: Annual Report, July 2008 through June 2009, Big Rock Mesa Landslide Assessment District, Malibu, California

Dear Mr. Sanchez:

Fugro is pleased to present the annual report for the Big Rock Mesa Landslide Assessment District (Assessment District). This report summarizes the monitoring and maintenance activities completed during the period of July 2008 through June 2009. Beginning on July 1, 2004, the City of Malibu contracted with Fugro for monitoring, maintenance, and reporting of the Assessment District activities.

Fugro appreciates this opportunity to serve the City of Malibu and the District homeowners. Please contact us at our office if you have any questions regarding this report.

Sincerely,

Fugro West, Inc.

Alexis Spencer, E.I.T.
Project Engineer

Christopher W. Dean
Senior Engineering Geologist

Lauren J. Doyel, P.E.
Associate Engineer

Copies Submitted: (3) Addressee
(1) City of Malibu - Geology & Soils Staff

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1.0 INTRODUCTION

1.1 AUTHORIZATION

Fugro performed monitoring and maintenance work and prepared this data report in accordance with our contract with the City of Malibu (City), commencing July 2006, and consistent with the cost estimate documents, "Exhibit A - FY 2008 through 2009 Maintenance Cost Estimate," presented in the Annual Assessment Report (Taussig, 2008).

1.2 BACKGROUND

The Big Rock Mesa Landslide Assessment District (Assessment District) was established in 1989 by the County of Los Angeles (County) following the activation of the Big Rock Mesa landslide in 1983. The Assessment District provides permanent funding to maintain and monitor dewatering facilities with the purpose of reducing landslide movements. The County administered the Assessment District until 1991 when the City incorporated. Since then, the City has administered the Assessment District, utilizing consultants to maintain and monitor the district facilities.

1.3 SCOPE OF WORK

This annual report summarizes the monitoring and maintenance of the geotechnical instrumentation and dewatering facilities for the period between July 1, 2008, and June 30, 2009 (hereinafter, the "monitoring period"). Fugro completed monitoring and maintenance activities summarized in this report.

Data collected during this monitoring period included the following:

- Annual Rainfall data from a local rain gauge at Big Rock Mesa, operated by the County;
- Monthly groundwater level measurements from 29 standpipes and 16 pneumatic piezometers;
- Twice-monthly dewatering production readings from 23 dewatering wells;
- Monthly dewatering production readings from 36 horizontal drains (hydraugers);
- Quarterly ground deformation readings from 18 slope inclinometers (geotechnical instrumentation);
- Twice yearly ground deformation readings from 10 slope inclinometers;
- Monthly readings of water usage data from the Mesa's master flow meter; and
- Quarterly water-quality sampling and analysis for National Pollution Discharge Elimination System (NPDES) compliance.

The operating condition of the instrumentation and dewatering facilities was checked during each field monitoring/observation event and by evaluating preliminary data in the office as they were received. Maintenance was performed as needed based upon the field observations and preliminary data evaluation.

The scope of services includes monitoring and maintenance of the Assessment District facilities and annual reporting. The services provided on an annual basis for the Assessment District do not include an evaluation of the stability of the landslide.

1.4 REPORT ORGANIZATION

This report summarizes the monitoring data collected during the monitoring period and presents conclusions regarding the annual monitoring results. The location of the Assessment District is illustrated on Plate 1 - Site Location Map. Locations of the geotechnical instrumentation and dewatering facilities are shown on Plate 2 - Assessment District Map. Tabulated and graphic summaries of monitoring data are presented in Appendices A through E.

1.5 REPORT AVAILABILITY

The annual Assessment District reports are available for review at Malibu City Hall and the Malibu Library. Reports may also be viewed on the City's website at http://www.ci.malibu.ca.us. Paper copies or electronic versions on CD (Pdf format) are also available for purchase from the City and Fugro.

2.0 MONITORING

2.1 RAINFALL DATA

Rainfall totals were tabulated based on recorded values from two Los Angeles County Rainfall Stations: No. 447C - located at Carbon Canyon and Pacific Coast Highway, and No. 1239 - located at Big Rock Mesa. The Carbon Canyon station was operational from October 1968 through September 2003. The Big Rock Mesa station started operation in December 1983 and is still operational at the time of this report preparation. To prepare our rainfall summary plot, we used the Carbon Canyon station data for the period from October 1968 to September 2003. When the Carbon Canyon station was dismantled in September 2003, we switched to using data from the Big Rock Mesa station for the period from October 2003 to the present. A combination graph of historical and annual cumulative monthly rainfall totals is shown on Plate 3.

Rainfall data indicate that approximately 11.02 inches of precipitation fell during the monitoring period from July 2008 through June 2009. The average rainfall total from 1968 to 2009 in the Malibu area for the period July through June is approximately 16.02 inches.

Rainfall data is usually analyzed in terms of the annual "rain season" that runs from October 1 through September 30. Rainfall for October 1, 2008 through June 30, 2009, was approximately 11.02 inches. This is approximately 69 percent of the average rainfall total of 16.02 inches for the rain seasons of 1968 through 2009.

2.2 MASTER WATER METER

Water usage data are collected by performing monthly readings at the master water meter near the intersection of Rockport Way and Big Rock Drive. This meter measures all imported water supplied to the Big Rock Mesa area by Los Angeles County Waterworks District 29. Processed readings are shown as a plot of flow rate versus time on Plate 4. Analysis of the data indicates the following:

- The recorded water usage rates are cyclic throughout the monitoring year reflecting higher levels of usage during the summer months.
- As illustrated on Plate 4, there has been a general increasing trend in water usage since about 1995. Average water usage during the 2008 through 2009 monitoring year, approximately 190,700 gallons per day (gpd), is approximately 4.9 percent less than the 2007 through 2008 monitoring year average of 200,600 gpd.
- The trend of increased water consumption since about 1995 was interrupted with the reduced landscape irrigation during the extended high rainfall period in the 2004 through 2005 monitoring year and again in the spring of 2006 and 2008. Increase in water usage has resumed since the 2005 through 2006 monitoring year and continued to the current monitoring year with the highest average water usage since 1984.

2.3 GROUNDWATER MONITORING

The groundwater monitoring data collected during this monitoring period are summarized in Appendix A. Groundwater levels fluctuate throughout the year, and from year to year, in response to natural and man-made influences. The primary natural influence is varying precipitation. Man-made influences include:

- Percolation from septic systems;
- Percolation from irrigation;
- Alterations to surface drainage by grading, landscaping, storm drains, and rain gutters;
- Inadvertent water discharges from leaking utilities (water, irrigation, sewer, storm drain) and swimming pools; and
- Dewatering activities including pumping dewatering wells and hydraugers.

Groundwater levels were typically measured in monitoring wells and pneumatic piezometers on a monthly basis. Monitoring data and graphs illustrating groundwater levels recorded in monitoring wells and pneumatic piezometers for the six physiographic regions of the Big Rock Mesa landslide are presented in Appendix A. Contour maps representing annual average groundwater elevations for 2007 through 2008 are shown on Plate 5. Also indicated on Plate 5 are peak groundwater levels for each standpipe location.

Typically, groundwater levels rise relatively quickly following significant rainfall and gradually lower after the wet season ends. Groundwater levels recorded in the Assessment District typically peak around late March to mid April and gradually decline through late September to November.

The groundwater data were analyzed by evaluating changes that occurred during the monitoring period as well as changes in groundwater levels compared to historical averages (1984 through 2009). To analyze trends in seasonal groundwater fluctuations, the average (mean) annual and highest annual recorded groundwater elevation for each piezometer were calculated (Appendix A) and summarize on the following table:

Table 1. Summary of Average Groundwater Elevations by Area

	No. of Wells w/ High* Groundwater	Total No. of Wells	Area Average Groundwater Elevation (ft)	Change vs. Prior (Area Average) (ft)	Average Peak Groundwater Elevation (ft)	Change vs. Prior (Area Average) (ft)
PCH Region	1	8	8.2	-0.5	9.1	-0.9
Bluff Region	2	4	66.7	+0.5	68.0	+0.4
Eastern Mesa	0	4	95.1	-2.9	97.1	-2.1
Central Mesa	4	8	191.1	-3.0	200.9	+4.3
Western Extension	3	4	397.2	+1.7	402.9	+4.1
Headscarp Region	1	1	551.4	-1.5	552.6	-1.7

*Wells are reported with "High" groundwater when either the Mean or Peak groundwater elevation was greater than one foot higher than the mean of the long-term average elevations (See Appendix A for data).

A summary graph of normalized peak groundwater elevations of each of the six regions in Big Rock Mesa is presented on Plate 6. The graph on Plate 6 shows average annual peak groundwater levels in the 2008 through 2009 monitoring year and are generally higher than the years preceding the winter of 2004 through 2005 rains (last significant rainfall), but are generally decreasing from the previous monitoring period.

Pacific Coast Highway (PCH) Region. The PCH Region parallels the coastal highway at the base of the bluff, including the area between the bluff and the Pacific Ocean. The PCH Region includes the southern boundary of the 1983 landslide. The Shoreline fault and landslide rupture surface define both a zone of weakness and a groundwater barrier, extending approximately along the same alignment as the highway.

Groundwater in most of the PCH Region was close to or below average levels during the monitoring period. As noted in previous monitoring reports, standpipe SP-30 continues to show rising groundwater levels since the 1998 monitoring year.

Bluff Region. Along the Bluff Region, where intense ground cracking was observed during the 1983 landslide, the subsurface materials generally have a relatively high secondary permeability due to this level of fracturing.

Groundwater in the Bluff Region was somewhat higher than average during this monitoring period. SP-32 and SP-34 have increased since the previous monitoring period and SP-34 shows a generally increasing trend.

Eastern Mesa Region. The Eastern Mesa Region lies between the Bluff and Big Rock Mesa Drive east of the Piedra Chica cul-de-sac. Groundwater within this area occurs within low permeability deposits of the Sespe Formation. The levels were all lower than average during this monitoring period and were generally decreasing during the monitoring period, except for PC-1, which showed an increase in levels compared to the previous monitoring period.

Central Mesa Region. The Central Mesa Region lies between the Bluff and Big Rock Mesa Drive and to the west of the Piedra Chica cul-de-sac. Groundwater within this area generally occurs within moderately permeable landslide deposits derived from the Topanga Formation. The levels were somewhat higher than long-term average during this monitoring period for SP-9A, SP-16A, and SP-24. However, SP-9A was lower than the previous monitoring period, while SP-16A and SP-24 were higher than the previous monitoring period.

Western Extension Region. The Western Extension Region encompasses approximately 79 acres, from PCH on the south to the upper ridgeline on the north, immediately west of the 1983 Big Rock Mesa landslide area. Groundwater levels in this area remained somewhat higher than average this monitoring period as they have been since the 2004 through 2005 rains, but were generally declining from the previous monitoring period. The groundwater level at SP-23 has showed an increase since the 2003 through 2004 monitoring period. Overall, water levels in the Western Extension are still high compared to average historical levels (1984 through 2009).

Headscarp Region. The ground surface elevation in the Headscarp Region is higher than other regions in Big Rock Mesa, and groundwater is relatively deep. The average groundwater elevation in SP-26 is higher than the historical average (1986 through 2009) but is approximately 1.5 feet lower than the previous monitoring period.

2.4 DEWATERING WELL PRODUCTION

The total production rate for all dewatering wells from 1984 through June 2009 is depicted on Plate 4. Dewatering well production rates for individual wells are presented on Plates B-1 through B-4 (Appendix B).

The average total well production rate for the monitoring period was approximately 53,615 gpd. This is approximately 1 percent less than the previous year's monitoring period value of 54,240 gpd, and below historical average production.

2.5 HYDRAUGER PRODUCTION

The total production rate for all hydraugers from 1993 through June 2009 is depicted on Plate 4. Additional data regarding hydraugers and production rates are presented in Appendix C, Plates C-1 through C-4.

The average hydrauger production rate over the monitoring period was approximately 24,600 gpd. This represents a similar production rate relative to the previous monitoring period. Hydraugers produced below historical average volumes of water throughout the monitoring period. Because hydraugers rely on gravity and water pressure (related to elevating groundwater table) for water production, generally hydraugers produce lower volumes during lower rainfall periods.

2.6 SLOPE INCLINOMETERS

Fugro monitored 18 slope inclinometers on a quarterly basis and 10 additional inclinometers on a semi-annual basis to measure subsurface ground deformation through June 2009.

The inclinometer probe used in the previous four monitoring periods (2004-2008) was used during the first two quarterly readings of the current monitoring period. This probe was then replaced due to damage. Third quarter readings were taken with a rented probe. Fourth quarter readings (spring 2009) were taken with a new probe purchased by Fugro. The new probe will be used for readings in future monitoring periods. The changes in equipment, and also new operating technicians, may account for slight variability in some of the inclinometers.

Slope inclinometer measurement plots are presented in Appendix E. Two slope inclinometer plots are prepared for most inclinometer installations. The first data plot for each slope inclinometer presents readings recorded during the monitoring period. The date of the baseline reading is generally the last reading of the previous monitoring period (May or June 2008) and is indicated on each plot. The second data plot has a baseline reading from May or June 2005 to show historical readings since the movement indicated in the 2004 through 2005 monitoring year.

Interpretation of inclinometer data shows no interpreted measurable ground movement in the 27 inclinometers during the 2008 through 2009 monitoring period with the exception of SP-15, which showed a change of approximately 0.2 inches near the ground surface. This inclinometer was read in August 2009 during the quarterly readings. SP-27A shows some change, but the potential movement magnitude and orientation is not clear and is within the reliable accuracy of the instrument.

A brief summary of each region is presented below and is summarized on Plate D-1. It is important to keep in mind the high sensitivity of the inclinomenter probes and the magnitude of the interpreted movements when reviewing the inclinometer data presented in this report. Plate D-1 notes the depths at which movement has been interpreted in the past, as well as whether the inclinometer penetrates the basal rupture surface. Shallower depths of interpreted movement above the base of the Big Rock Mesa Landslide have also been noted.

- **PCH Region.** The PCH Region extends along PCH in proximity of the southern boundary of the 1983 landslide. SP-15 showed a change of approximately 0.2 inches in the upper 10 feet. SP-27A shows some change at approximately 26 to 30 feet in depth, though it is within the reliable accuracy of the instrument.

- **Bluff Region.** The Bluff Region extends along the top of the slope immediately to the north of the PCH Region where intense ground cracking was observed during the 1983 landslide. No noticeable changes within the three inclinometers in the Bluff Region were observed.
- **Eastern Mesa Region.** The Eastern Mesa Region extends west to the ends of Inland Lane and Piedra Chica cul-de-sac. This area is bordered to the north by Big Rock Drive and to the south by the Bluff Region. No distinct offsets within the four inclinometers in the Eastern Mesa Region were observed.
- **Central Mesa Region.** The Central Mesa Region is located between the Bluff and Big Rock Mesa Drive and to the west of the Piedra Chica cul-de-sac. No distinct offsets within the four inclinometers in the Central Mesa Region were observed.
- **Western Extension Region.** The Western Extension Area encompasses approximately 79 acres, from PCH on the south to the upper ridgeline on the north, immediately west of the 1983 Big Rock Mesa landslide area. No distinct offsets within the four inclinometers in the Western Extension Region were observed.
- **Headscarp Region.** The Headscarp Region borders the Central Mesa Region to the north. No distinct offsets were observed in this inclinometer. Typically within the Assessment District SP-26, the only inclinometer in this region is first to move and the last to cease movement in response to heavy rainfall. Past movement has occurred along the identified slide plane between 700 and 720 feet elevation and at shallow depths at elevation 26 to 34 feet reflecting a smaller "headscarp" landslide.

3.0 WATER QUALITY MONITORING

3.1 REGIONAL BOARD REQUIREMENTS

Water quality monitoring was completed in general compliance with the NPDES permit, as required by the California Regional Water Quality Control Board (RWQCB).

On March 2, 2004, the RWQCB issued a new NPDES permit (CAG994004, CI-6896). On October 3, 2008, Order No. R4-2008-0032 superseded Order No. R4-2003-0111 and provided revised sampling and analysis requirements. New sampling requirements include quarterly sampling for sulfides and phenols and eliminated sampling for residual chlorine. Quarterly sampling was increased to monthly for turbidity, total suspended solids, Biochemical Oxygen Demand, settleable solids, and oil and grease.

Fugro completed quarterly sampling under the revised permit. The data collected and reports submitted are presented in Appendix E.

Water produced by dewatering wells and hydraugers is discharged to one of several storm-drain conveyance lines. Usually, several wells and hydraugers discharge to each storm-drain line. Other sources of water are also collected by the storm-drain system including stormwater runoff (during and following precipitation), irrigation runoff, domestic use surface runoff from car washing and hosing off of driveways, illicit discharges, groundwater seepage, and possibly other unidentified sources.

Prior to 2004, samples were collected from storm drains outlets. In November 2004, sampling locations were changed prior to fourth quarter collection of the 2004 monitoring year because the samples collected from storm drains represent discharge from uncontrolled sources in addition to dewatering discharge. The samples are currently collected directly from the dewatering system discharge lines (wells and hydraugers). This change in sampling methodology should be noted when comparing recent water quality data to data collected before the 2004 through 2005 monitoring period.

In November 2008, samples collected from dewatering wells W-2, BYA-9 and W-18 were tested for acute toxicity. The levels were below the 90% survival limit (out of compliance). Additional samples (annually and increased to monthly) were collected from the dewatering wells, continuing through April 2008. Information and standards received from the RWQCB indicate that a sampling port is in compliance once three continuous samples result in a survival rate of greater than 90%. All three wells were subsequently found to be in compliance.

3.2 WATER-QUALITY RESULTS

Results of water quality sampling and analyses are presented in Appendix E. Water quality monitoring, conducted in general conformance with the requirements of the RWQCB NPDES Permit, indicate that discharges from the dewatering wells and hydraugers generally meet discharge requirements; however, they have been periodically out of compliance for pH, residual chlorine (no longer tested), acute toxicity and settleable solids.

4.0 CAPITAL IMPROVEMENTS

4.1 DEWATERING WELLS

No dewatering wells were installed during the monitoring period. A replacement dewatering well is proposed to be installed in fall 2009 on Roca Chica. The location of this dewatering well was based on the increasing groundwater levels observed in SP-30, SP-34 and SP-32.

4.2 HYDRAUGER IMPROVEMENTS

No hydraugers were installed during the monitoring period.

5.0 FACILITY MAINTENANCE

5.1 FACILITY MAINTENANCE

The operating status of each dewatering well and hydrauger was checked monthly. When necessary, repair work was scheduled and undertaken as expeditiously as reasonable - typically within a matter of a few hours to a few days of identifying a problem. Generally, repairs and maintenance consisted of well pump and electrical repairs. These repairs are summarized on the following table:

Table 2. Maintenance Activities

Date	Facility	Work Performed
July 23, 2008	BYA-5	Electrical trouble shooting
July 24, 2009	W-14	Replace dewatering well prep – electrical
July 25, 2008	HD-33	Maintenance and brush clearing
August 11, 2008	HD-4 HD-28	Replace coupling Clean out and repair
August 22, 2008	Dewatering wells	Well Vault and power box maintenance
September 5,8, 2008	BYA-6	Replaced water meter
September 10-11, 2008	BYA-4	Repair flow totalizer water meter
September 12th and 29th, 2008	BYA-13	Repair water meter vault; patched street asphalt, clean debris
November 6, 2008	HD-5, HD-23, HD-24	Discharge port – remove build up of organic matter around and on top of conveyance lines at storm drain
November 11, 2008	BYA-10	Electrical trouble shooting – change pump saver
November 24, 2008	BYA-1	Voltage and amperage check
November 26, 2008	BYA-6	Remove and replace pump saver control
December 2, 2008	BYA-1	Repair meter, damage to casing at 250 ft
December 10, 2008	BYA-1 SP-33	Trouble shoot pump saver settings Cleanup vault cover
December 16, 2008	BYA-1, BYA-6 HD-5/6/23	Check performance of pump and motors Extension of conveyance to storm drain
December 29, 2008	HD-5/6/22/23 BYA-11	Complete extension of conveyance line Rust-proofing, primer coat
June 23, 2009	BYA-4, W-13	Repairs to electric connection for BYA-4; W-13 new pump provided

6.0 SUMMARY AND CONCLUSIONS

6.1 ANNUAL SUMMARY

- Groundwater levels in the Big Rock Mesa landslide are the primary factor controlling the stability of the landslide mass. Rises in groundwater levels tend to destabilize the landslide. Previous episodes of movement of the landslide have been directly related to high groundwater levels. Therefore, controlling the long-term average and peak groundwater levels in the landslide mass is the primary means available to reduce future movements of the landslide. The primary factors influencing recharge of groundwater to the landslide are: 1) septic discharge, 2) rainfall, 3) irrigation, and 4) water line and pool leakage.

- Monitoring data related to rainfall and imported water usage indicate the following:
  - Recorded rainfall of 11.02 inches in the rainy season of the monitoring period was less than the historical average rainfall from 1969 through 2009 for the Malibu area.
  - Use of imported water decreased approximately 4.9 percent from the previous monitoring year and 38 percent above the average usage in 1984.
- Groundwater levels in 29 monitoring wells were measured regularly during the monitoring period. Significantly high groundwater levels were recorded in 11 of the 29 piezometers.
- The overall dewatering rate for the dewatering wells and hydraugers was approximately 76,400 gpd for this monitoring period, which is approximately the same as last year's average and below the average production rate since 2004.
- Interpretation of inclinometer data show no measurable ground movement in the 27 inclinometers throughout Big Rock Mesa during the 2007 through 2008 monitoring year, with the exception of SP-27A (change of approximately 0.05 inches) and SP-15 (change of approximately 0.2 inches).
- Water quality monitoring, conducted in general conformance with the requirements of the RWQCB NPDES Permit, indicate that discharges from the dewatering wells and hydraugers were generally in compliance with discharge permit limits. However, low survival levels for the annual acute toxicity tests were observed in W-18, W-2 and BYA-9. Results of additional testing concluded the ports in question are in compliance.
- Routine maintenance was conducted throughout the year on the dewatering wells and hydraugers. Ongoing maintenance and repair work is essential to maintaining the capacity of the dewatering system. No unusual maintenance issues were encountered.

6.2 CONCLUDING COMMENTS

- It is important to recognize that the dewatering facilities installed over the preceding decades are aging and require increasing maintenance and regular replacement. The anticipated lifespan of an average hydrauger is measured in years, not decades. Dewatering wells may last from a few years to several decades.

  In order to maintain peak efficiency of the horizontal drains and wells, cleaning and re-development of the dewatering system should be conducted on a regular basis.
- Water conservation throughout the Big Rock Mesa area is essential to reduce groundwater recharge. As previously stated, rainfall and imported (household) water

usage are the primary sources of groundwater recharge and, therefore, the primary factors controlling the movement of the landslide. Because seasonal rainfall is beyond the control of homeowners and the City, water conservation is the most critical remaining means of controlling groundwater recharge on the Mesa.

- The geology throughout the Assessment District is not uniform and can change from location to another. Areas of low permeability, such as in the Eastern Mesa Region, can limit the dewatering production of individual facilities.

7.0 REFERENCES

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PLATES

BASE MAP SOURCE: USGS 1:100,000-scale Metric Topographic Map of Los Angeles, California (1979).

NORTH
0 4000 8000
FEET

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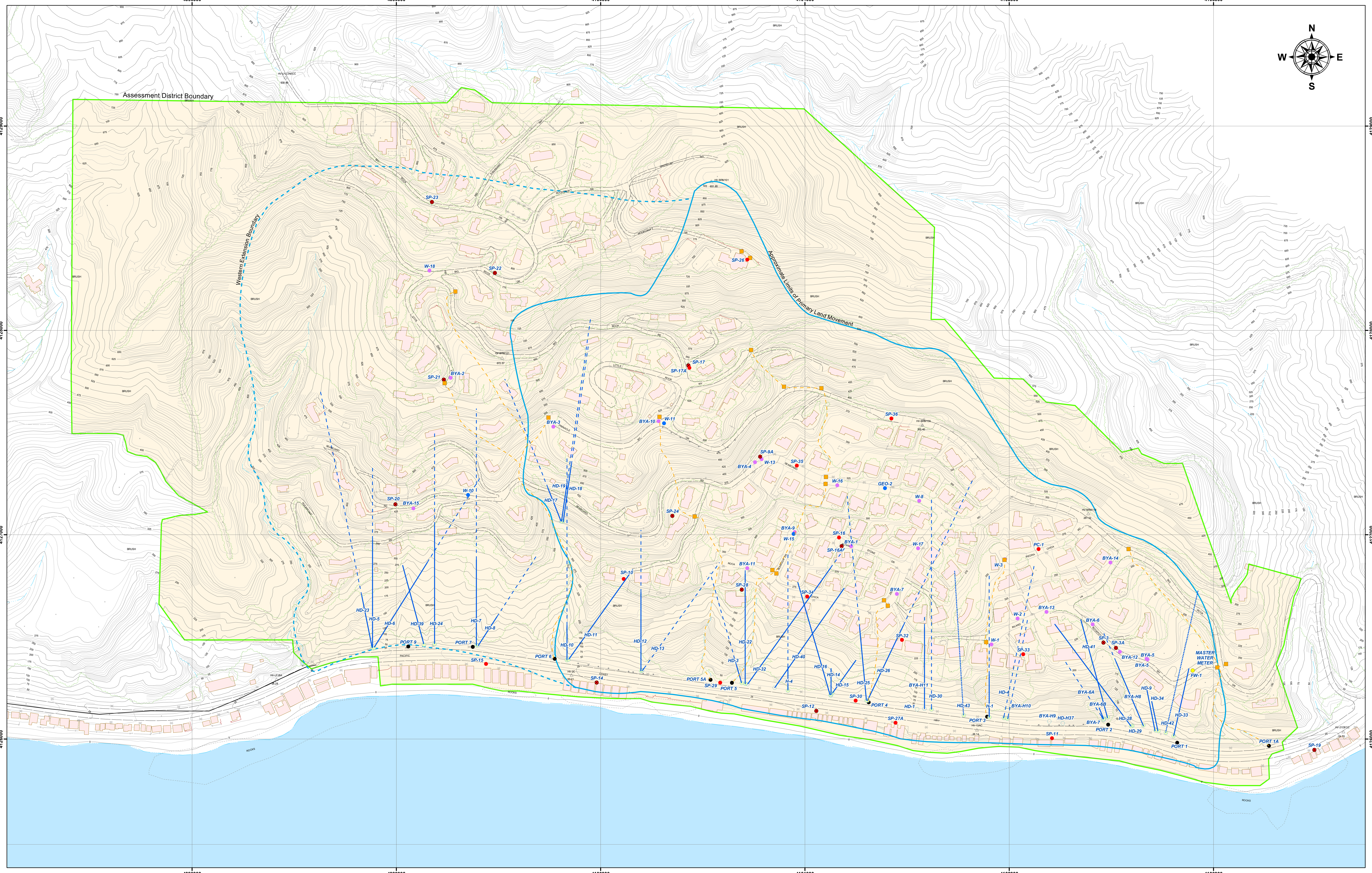
SITE LOCATION MAP
Big Rock Mesa Landslide Assessment District
Malibu, California



BIG ROCK MESA LANDSLIDE ASSESSMENT DISTRICT MALIBU, CALIFORNIA

ASSESSMENT DISTRICT MAP

July 2008 Plate 2

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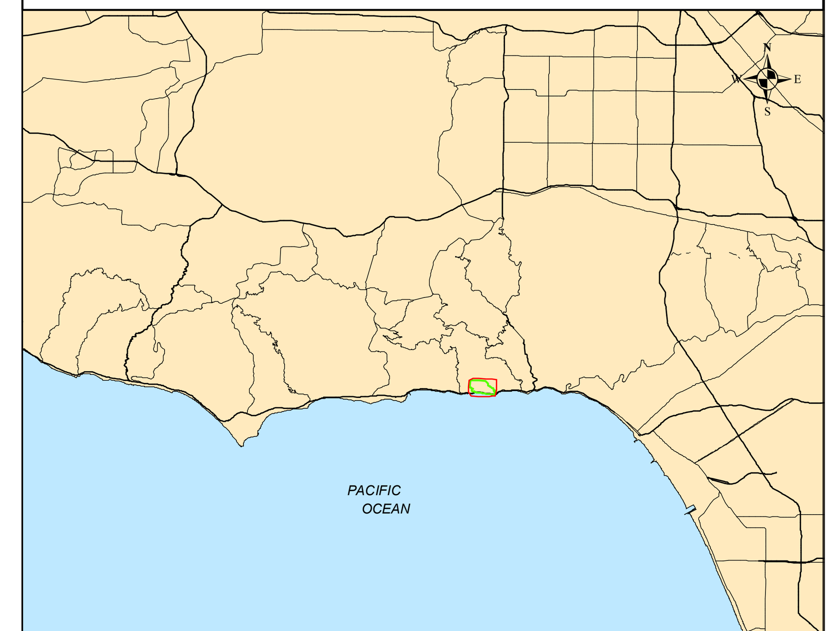


LEGEND

- Active Dewatering Well
- Replacement Dewatering Well
- GPS Monument
- Destroyed Hydrauger
- Nonproducing Hydrauger
- Producing Hydrauger
- Slope Inclinometer Does penetrate rupture surface.
- Slope Inclinometer Does not penetrate rupture surface.
- Standpipe
- Storm Drain Outfall
- Storm Drain Catch Basin
- Coordinate Grid: California State Plane, Zone 7, NAD 27, Feet
- Big Rock Mesa Landslide District Boundary
- Storm Drain
- Hydrauger

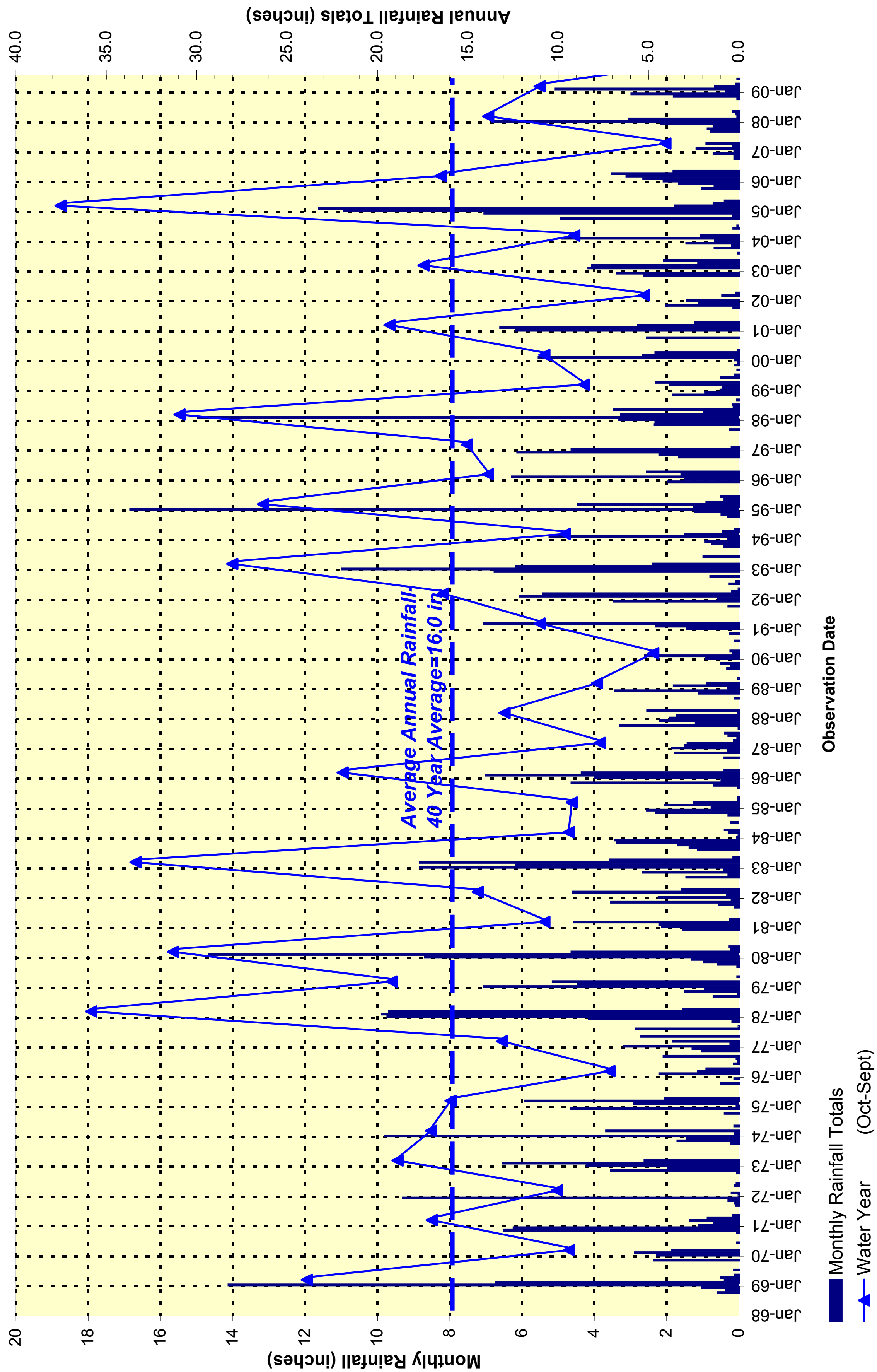
HORIZONTAL SCALE: 1:2,400

200 100 0 200 Feet

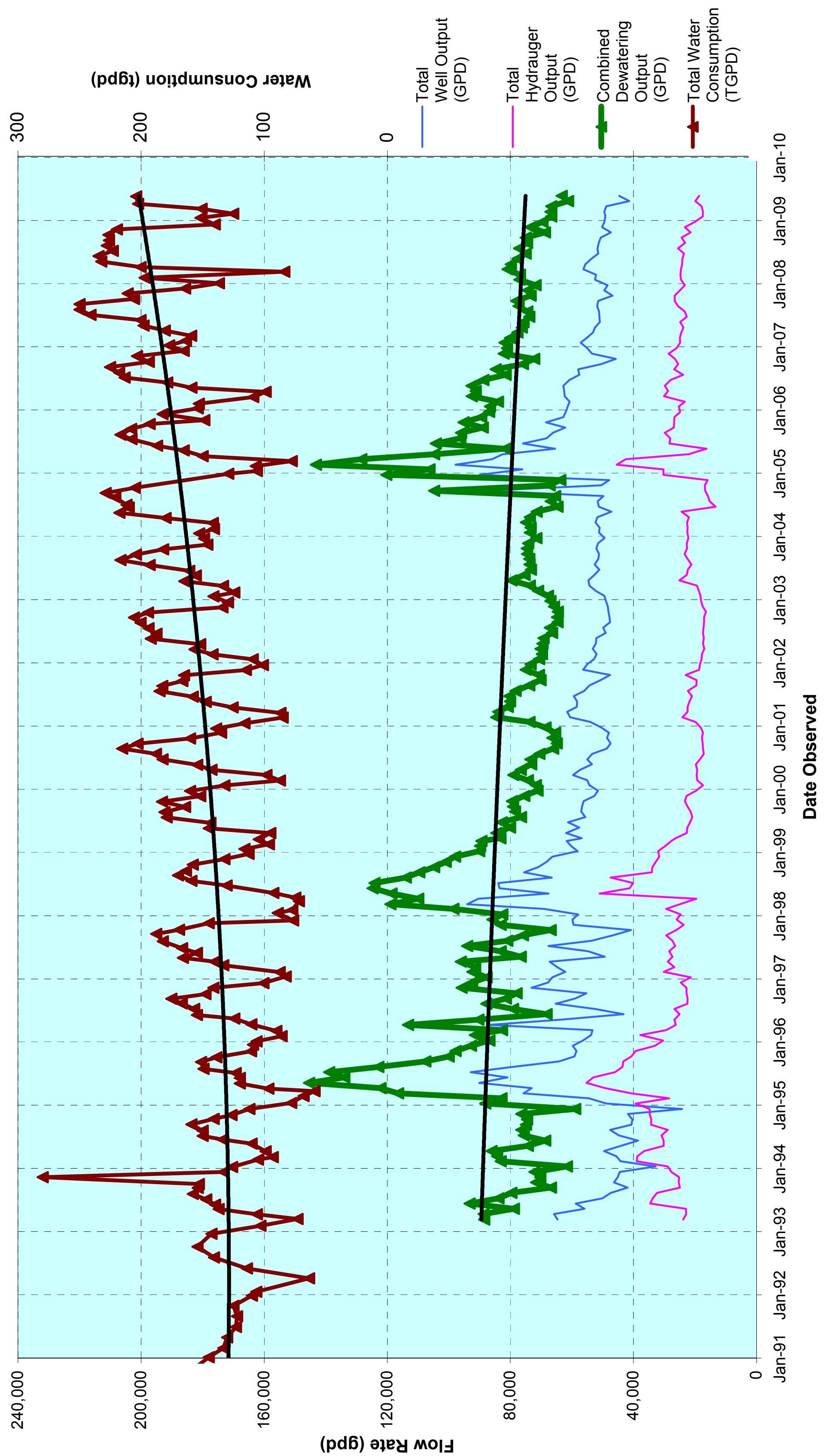
REVISIONS

No.	DATE	DESCRIPTION	BY
1	08/11/04	GPS Field Results	KRS
2	08/18/04	GPS Field Results	KRS
3	09/19/06	Hydraugers	CAB

DATE:	WORK ORDER:		PLATE NO.:
8/14/2007	3399.006		2
DRAWN BY:	CHECKED BY:	APPROVED BY:	
CBD	AS	SM	

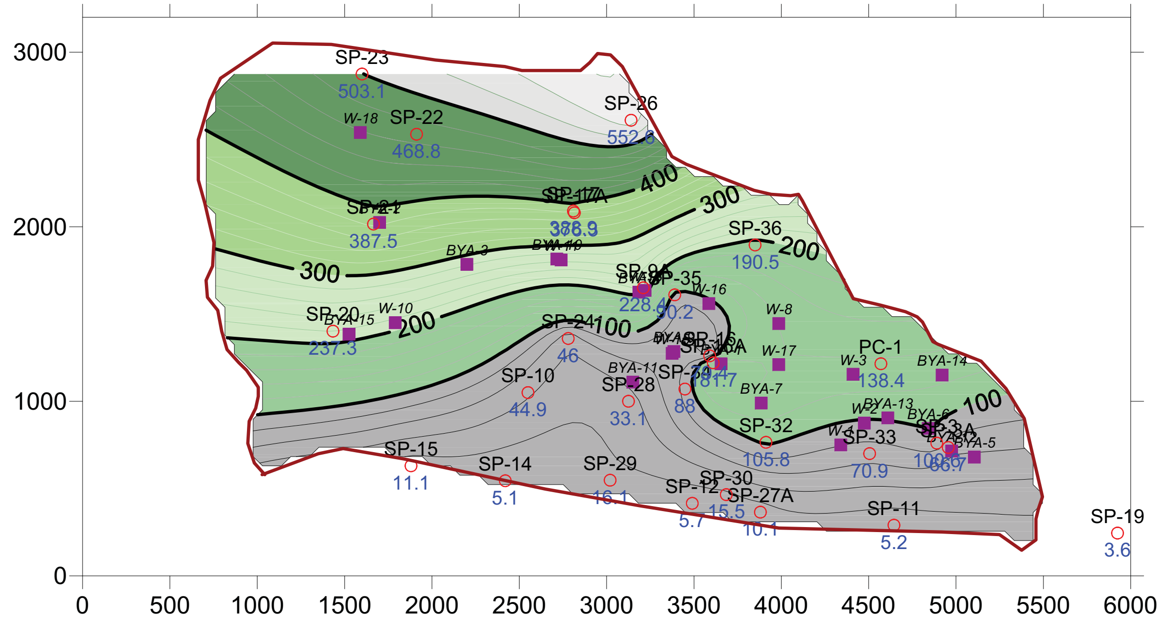


MALIBU AREA - MONTHLY & ANNUAL RAINFALL
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California



All Wells, All Hydraugers, Wells & Hydraugers (combined), Total Water Consumption

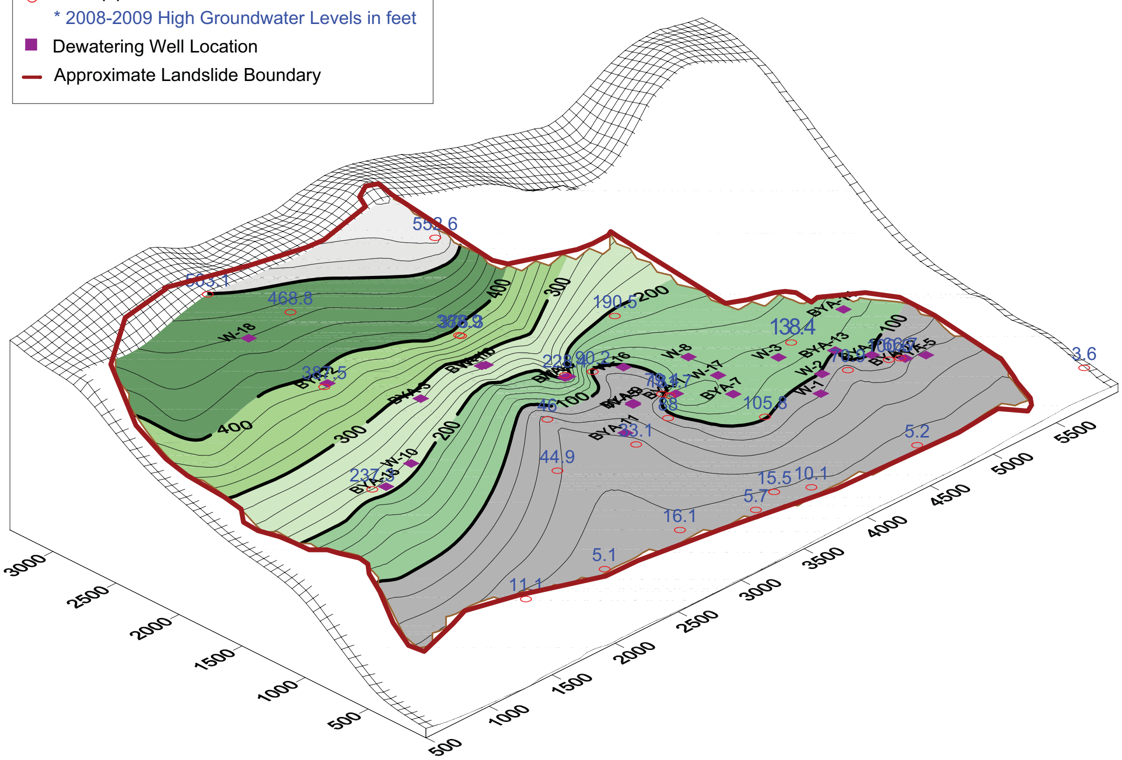
TOTAL DEWATERING RATE VS. TOTAL WATER CONSUMPTION
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California



2008-2009 Average Groundwater Level Contour Map

EXPLANATION

- Standpipe Location
- * 2008-2009 High Groundwater Levels in feet
- Dewatering Well Location
- Approximate Landslide Boundary



Big Rock Mesa Landslide Topographic Map
2008-2009 Average Groundwater Contours

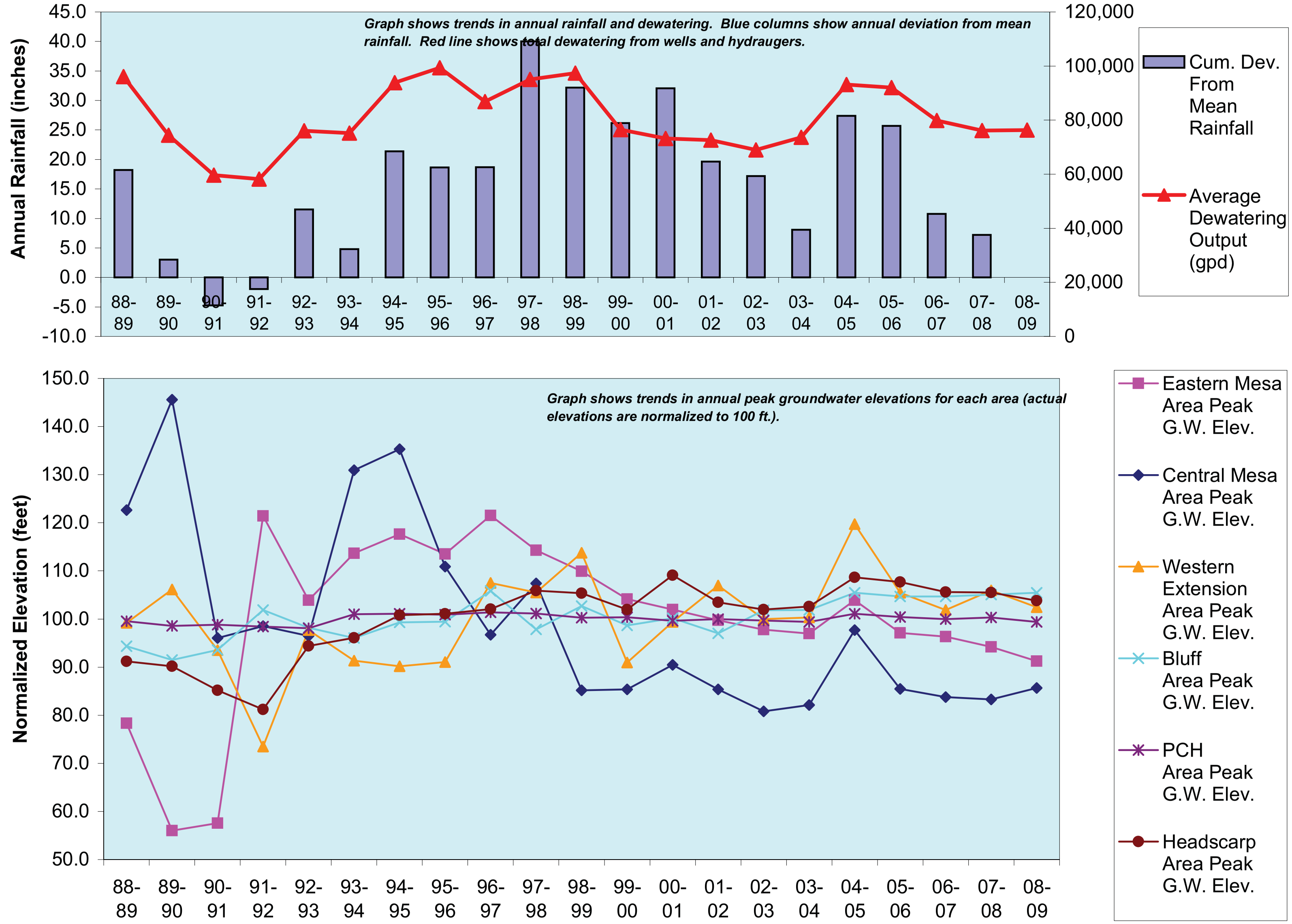
2008-2009 AVERAGE GROUNDWATER LEVEL CONTOUR MAP

2008 through 2009 Annual Report

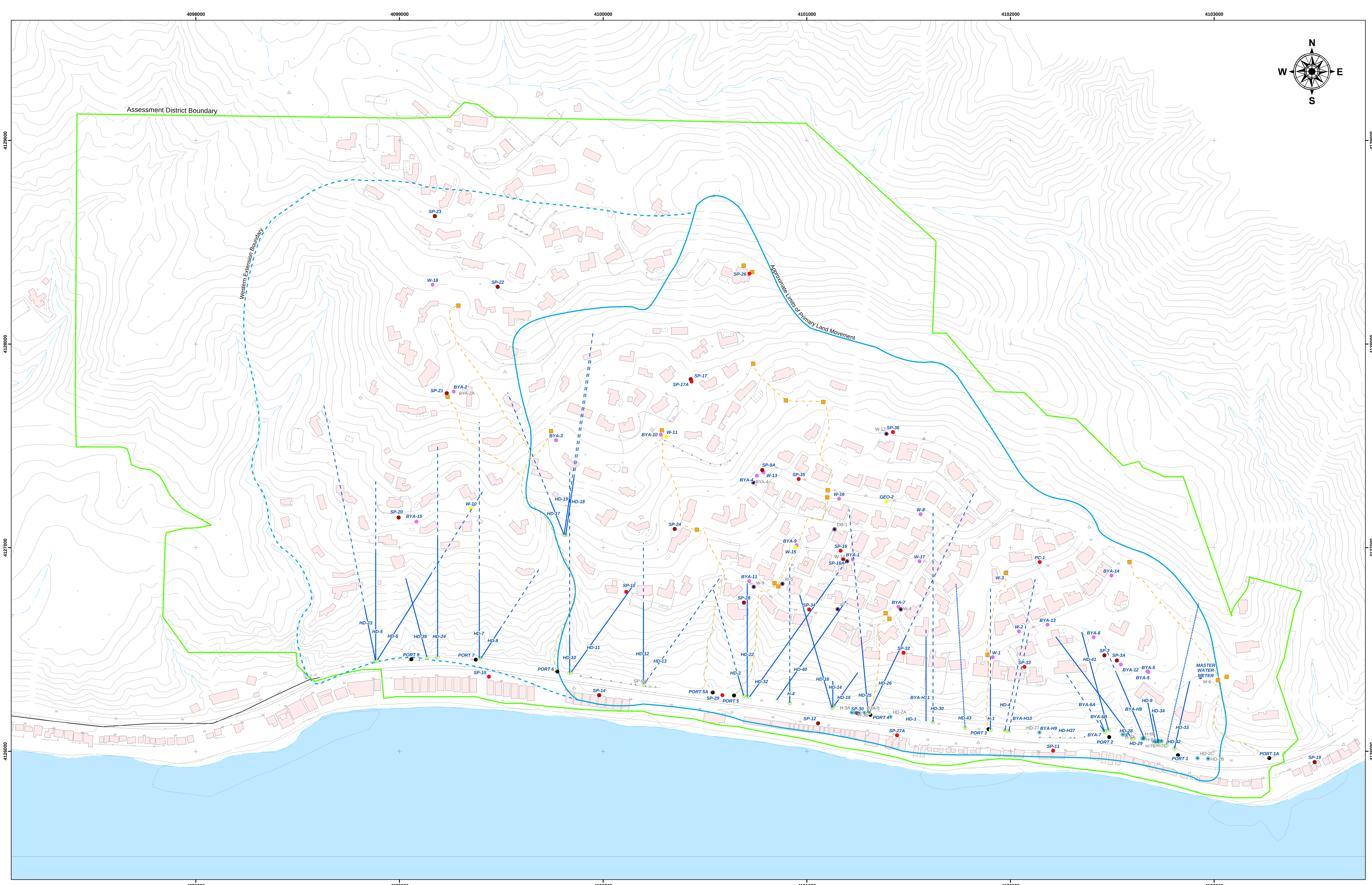
Big Rock Mesa Landslide Assessment District

Malibu, California

PLATE 5



SUMMARY OF GROUNDWATER LEVELS, TOTAL DEWATERING & RAINFALL
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California



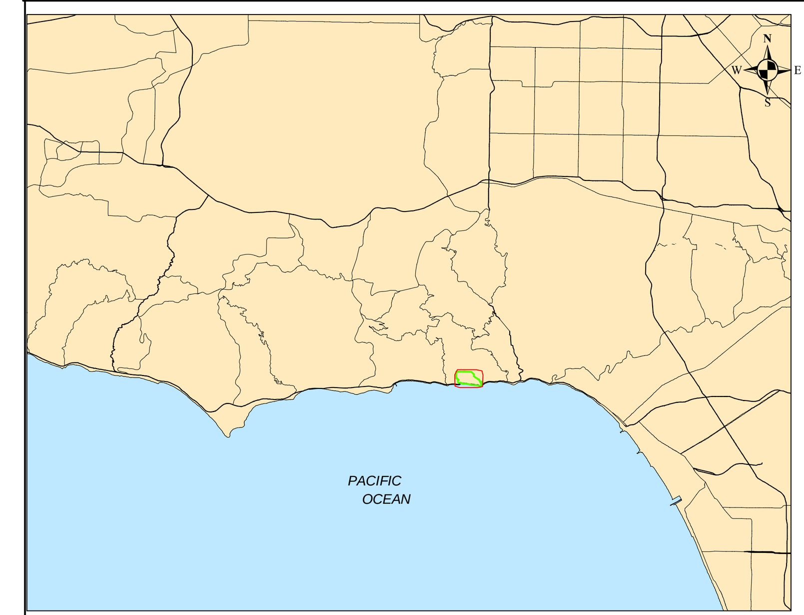
BIG ROCK MESA LANDSLIDE ASSESSMENT DISTRICT MALIBU, CALIFORNIA

ASSESSMENT DISTRICT MAP

February 2007

Plate 7

FUGRO WEST, INC.
4820 McGrath St., Suite 100, Ventura, California 93003
Tel: (805) 650-7000, Fax: (805) 650-7010



LEGEND

Current Facilities

- Active Dewatering Well
- Slope Inclinometer Does not penetrate rupture surface.
- Slope Inclinometer Does penetrate rupture surface.
- Standpipe
- GPS Monument
- Producing Hydrauger
- Nonproducing Hydrauger
- Storm Drain Outfall
- Destroyed Hydrauger
- Storm Drain Catch Basin
- Coordinate Grid: California State Plane, Zone 7, NAD 27, Feet
- Big Rock Mesa Landslide District Boundary
- Storm Drain
- Hydrauger
- Building

Inactive Facilities

- Dewatering Well
- Slope Inclinometer Does not penetrate rupture surface.
- Slope Inclinometer Does penetrate rupture surface.
- Standpipe
- GPS Monument
- Producing Hydrauger
- Nonproducing Hydrauger
- Storm Drain Outfall
- Destroyed Hydrauger
- Storm Drain Catch Basin

HORIZONTAL SCALE: 1:2,400

200 100 0 200 Feet

REVISIONS

No.	DATE	DESCRIPTION	BY
1	08/11/04	GPS Field Results	KRS
2	08/18/04	GPS Field Results	KRS
3	09/19/06	Hydraugers	CAB

DATE:	WORK ORDER:		PLATE NO.:
8/14/2007	3399.006		7
DRAWN BY:	CHECKED BY:	APPROVED BY:	
CBD	AS	SM	

APPENDIX A
GROUNDWATER LEVEL DATA

Big Rock Mesa: Piezometer Information

Piezometer ID	Surface Elev. (ft)	Tip No.	TIP DEPTH (ft.)	INSTALL BY	STATUS
W-10	432	230	230	BYA	Functioning
W-11	507	214	214	BYA	Functioning
W-15	295	164	164	BYA	Functioning
PC-1	250	TIP-1 TIP-2 TIP-3 TIP-4 TIP-5	120 90 70 40 20	BYA	Functioning Functioning Functioning Functioning Malfunctioning
SP-5A	NA	TIP-1 TIP-2 TIP-3	NA	BYA	Non-functioning - Covered by asphalt pavement
SP-8A	NA	TIP-1 TIP-2 TIP-3	NA	BYA	Non-functioning - Covered by landslide
SP-17A	540	TIP-1 TIP-2 TIP-3 TIP-4 TIP-5	Unknown Unknown Unknown Unknown Unknown	BYA	Functioning, results questionable, data not presented
SP-34	270	TIP-1 TIP-2 TIP-3 TIP-4	381 282 182 82	BYA	Functioning
SP-35	345	TIP-1 TIP-2 TIP-3 TIP-4	393 293 193 98	BYA	Functioning Functioning Functioning Malfunctioning
SP-36	380	TIP-1 TIP-2 TIP-3	255 195 95	BYA	Functioning
BYA-2A	665	TIP-1 TIP-2 TIP-3	Unknown Unknown Unknown	BYA	Functioning
BYA-3A	NA	TIP-1 TIP-2 TIP-3 TIP-4	NA	BYA	Malfunctioning
BYA-4A	NA	TIP-1 TIP-2 TIP-3 TIP-4 TIP-5 TIP-6	NA	BYA	Malfunctioning
BYA-5A	NA	TIP-1 TIP-2 TIP-3 TIP-4	NA	BYA	Malfunctioning Malfunctioning Malfunctioning Functioning
GEO-2 (OB-2)	305	TIP-1 TIP-2 TIP-3	NA	GS	Malfunctioning Functioning (Black Tip) Functioning (Clear Tip)
GEO-1	NA	TIP-1 TIP-2 TIP-3	NA	GS	Restricted Access (possibly malfunctioning)

NOTE: ADDITIONAL DATA FOR STANDPIPE PIEZOMETERS IS PRESENTED IN APPENDIX D, PLATE D-1

Piezometer I.D.		1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	**2008-2009**	Highest Recorded	Mean '91 - '09	Stand Dev.	08-09 vs 97-98	08-09 vs 07-08	08-09 vs mean
PCH REGION																																	
SP-11	Mean El.						5.7	5.3	4.7	4.5	5.7	5.7	5.5	5.8	5.5	5.8	6.3	5.5	4.8	5.4	5.4	5.2	5.3	5.1	5.4	4.9	4.6	Sep-01	5.3	0.5	-1.2	-0.3	-0.4
	Highest El.						6.4	5.8	5.5	5.0	6.0	7.4	6.9	7.5	6.7	7.3	8.1	6.5	5.5	8.3	7.0	5.7	5.8	5.9	7.6	5.9	5.2	8.3	6.6	1.0	-2.1	-0.7	-0.7
SP-12	Mean El.						4.6	5.4	5.5	5.4	5.2	4.8	4.9	5.1	4.8	5.0	5.3	5.3	4.7	4.5	4.8	4.6	5.5	5.2	4.9	4.8	4.7	Feb-05	5.0	0.3	-0.3	-0.1	-0.2
	Highest El.						4.6	5.4	6.0	6.0	6.0	7.2	6.1	6.3	7.4	7.0	6.4	6.5	7.4	6.4	6.4	6.4	8.3	7.2	6.4	5.8	5.7	8.30	6.6	0.7	-1.3	-0.1	-0.8
SP-14	Mean El.					4.5	4.7	4.4	4.8	4.3	4.8	4.9	4.9	4.9	5.0	5.9	5.8	5.6	4.7	4.5	4.6	4.6	4.7	4.8	4.7	4.7	4.3	Feb-98	4.9	0.5	-1.6	-0.4	-0.2
	Highest El.					4.5	4.7	4.4	5.2	5.4	7.1	6.1	5.3	5.9	5.7	8.7	6.9	7.4	5.4	5.7	5.1	5.4	5.4	5.7	5.5	6.0	5.1	8.7	6.0	1.0	-3.6	-0.9	0.0
SP-15	Mean El.					11.3	8.8	10.5	9.1	7.5	10.7	13.4	12.6	15.1	14.5	12.2	12.0	11.7	11.6	11.5	11.7	10.0	11.9	11.6	11.6	11.4	8.9	Jan-97	11.7	1.8	-3.3	-2.6	-0.2
	Highest El.					11.3	12.2	10.5	11.4	9.1	12.4	19.4	19.5	19.9	20.0	16.3	13.5	12.7	12.4	12.5	12.4	12.2	12.8	12.4	12.2	12.2	11.1	20.0	14.1	3.4	-5.2	-1.1	-1.9
SP-19	Mean El.							3.6	3.6	3.1	4.5	4.4	4.7	4.6	4.3	4.4	4.5	3.8	3.4	3.7	3.5	3.4	3.9	3.6	3.6	3.5	3.1	Mar-95	3.9	0.5	-1.3	-0.4	-0.4
	Highest El.							4.1	4.0	3.4	5.0	5.0	5.9	5.4	4.9	5.2	5.0	4.5	3.9	4.3	4.1	4.0	4.2	4.5	4.4	4.1	3.6	5.9	4.5	0.7	-1.6	-0.5	-0.4
SP-27A	Mean El.						7.1	9.1	8.8	8.7	9.3	9.4	9.7	9.5	9.5	9.7	9.6	10.1	9.2	9.0	9.5	9.3	10.2	9.7	9.5	10.0	9.5	Ap-00/Fe-08	9.5	0.4	-0.2	-0.5	0.5
	Highest El.						7.1	10.1	9.2	10.2	10.0	10.2	10.8	10.3	10.4	10.7	10.4	13.7	9.6	9.7	9.9	9.8	13.5	12.5	10.2	13.7	10.1	13.7	10.9	1.4	-0.6	-3.6	2.8
SP-29	Mean El.					19.7	20.4	19.4	18.7	18.0		19.7	20.0	19.2	19.2	19.7	18.8	18.0	18.1	17.0	16.2	16.0	18.0	17.7	16.7	16.3	15.8	Feb-05	17.9	1.4	-3.9	-0.5	-1.6
	Highest El.					19.7	21.7	19.4	18.7	18.0		20.9	22.1	20.2	20.5	21.3	19.9	19.1	19.6	18.1	16.7	16.4	22.2	18.7	17.4	16.9	16.1	22.2	19.1	2.0	-5.2	-0.8	-2.2
SP-30	Mean El.					7.4	7.1	6.4	7.2	6.9	7.7	7.3	7.9	8.1	9.6	8.0	8.5	9.0	9.7	11.3	12.6	12.9	13.0	13.4	13.4	14.4	15.1	Aug-09	10.5	2.7	7.1	0.7	3.9
	Highest El.					7.4	8.0	6.4	8.0	8.0	8.0	9.3	9.6	9.4	13.3	10.2	9.6	10.1	10.8	12.6	14.3	13.4	14.3	14.1	14.2	15.3	15.5	15.5	11.8	2.6	5.3	0.2	3.5
Area Average	Mean El.					10.7	8.3	8.0	7.8	7.3	6.8	8.7	8.8	9.1	9.1	8.8	8.8	8.6	8.3	8.4	8.5	8.2	9.1	8.9	8.7	8.7	8.2		8.5	0.6	-0.6	-0.5	0.2
	Highest El.					10.7	9.2	8.3	8.5	8.1	7.8	10.7	10.8	10.6	11.1	10.8	10.0	10.1	9.3	9.7	9.5	9.2	10.8	10.1	9.7	10.0	9.1		9.9	0.9	-1.8	-0.9	0.1
Change vs Prior	Mean El.						-2.4	-0.3	-0.2	-0.5	-0.4	1.8	0.1	0.3	0.0	-0.2	0.0	-0.2	-0.3	0.1	0.2	-0.3	0.8	-0.2	-0.2	0.0	-0.5						
	Highest El.						-1.5	-1.0	0.2	-0.4	-0.4	2.9	0.1	-0.2	0.5	-0.3	-0.9	0.1	-0.7	0.4	-0.2	-0.3	1.7	-0.7	-0.4	0.3	-0.9						
BLUFF REGION																																	
SP-10	Mean El.	144.7	76.0	50.0	50.5	49.2	47.4	45.9	48.8	55.3	44.6	42.9	41.6	42.0	41.6	41.3	42.4	42.8	42.9	43.3	43.7	44.3	45.5	45.2	45.2	44.8	43.7	Dec-83	44.0	3.1	2.4	-1.1	-0.3
	Highest El.	174.2	130.0	50.0	50.5	50.0	52.0	46.0	55.5	74.0	45.9	44.4	42.2	42.6	41.9	41.6	44.8	43.4	43.3	43.6	44.1	44.4	47.2	45.4	45.4	45.2	44.9	174.2	45.8	7.2	3.3	-0.3	-0.9
SP-28	Mean El.						36.4	33.7	37.5	33.7	33.6	33.7	33.0	32.7	32.2	31.9	32.6	33.2	33.1	33.0	32.9	32.9	34.9	34.7	33.3	33.1	32.8	Sep-88	33.2	0.8	1.0	-0.2	-0.4
	Highest El.						40.5	33.8	40.0	36.0	35.2	35.2	33.1	33.1	32.4	32.2	34.9	33.6	33.2	33.3	33.0	32.9	36.1	36.0	33.6	33.1	33.1	40.5	33.9	1.3	0.9	0.0	-0.8
SP-32	Mean El.						75.3	79.1	72.6	76.1	90.1	85.9	92.5	92.5	94.9	76.5	84.2	79.7	88.2	70.1	89.9	91.1	99.9	100.2	102.3	102.4	104.4	Apr-96	90.0	9.9	27.8	2.0	14.3
	Highest El.						78.2	82.3	72.8	83.2	101.0	96.2	110.2	110.2	130.9	107.4	95.3	88.4	97.0	83.6	106.0	105.8	106.7	105.9	105.9	105.8	105.8	130.9	102.5	11.1	-1.6	0.0	3.3
SP-34	Mean El.																74.4	77.6	76.2	76.4	73.5	73.8	80.0	79.7	82.8	84.5	86.0	Apr-09	78.6	4.3	86.0	1.5	7.4
	Highest El.																85.9	79.5	77.3	77.7	74.4	74.5	82.1	81.4	83.8	86.1	88.0	88.0	81.0	4.7	88.0	1.9	7.0
Area Average	Mean El.	144.7	76.0	50.0	50.5	49.2	53.0	52.9	53.0	55.0	56.1	54.2	55.7	55.7	56.2	49.9	58.4	58.3	60.1	55.7	60.0	60.5	65.1	64.9	65.9	66.2	66.7		59.1	4.9	16.8	0.5	7.6
	Highest El.	174.2	130.0	50.0	50.5	50.0	56.9	54.0	56.1	64.4	60.7	58.6	61.8	62.0	68.4	60.4	65.2	61.2	62.7	59.6	64.4	64.4	68.0	67.2	67.2	67.6	68.0		64.0	3.2	7.6	0.4	4.0
Change vs Prior	Mean El.		-68.7	-26.0	0.5	-1.3	3.8	-0.2	0.1	2.0	1.1	-1.9	1.5	0.1	0.5	-6.3	8.5	-0.1	1.8	-4.4	4.3	0.5	4.6	-0.1	0.9	0.3	0.5						
	Highest El.		-44.2	-80.0	0.5	-0.5	6.9	-2.9	2.1	8.3	-3.7	-2.1	3.2	0.1	6.4	-8.0	4.8	-4.0	1.5	-3.2	4.8	0.0	3.6	-0.8	0.0	0.4	0.4						
HEADSCARP REGION																																	
SP-26	Mean El.				541.9	540.2	538.9	535.8	532.4	527.0	532.6	543.6	543.3	547.8	547.1	549.9	551.9	549.8	550.7	550.6	549.1	550.7	553.1	554.7	553.8	552.9	551.4	Apr-01	547.8	7.3	1.5	-1.5	3.6
	Highest El.				542.0	540.2	540.0	539.0	534.0	530.0	543.2	544.9	549.6	549.9	550.9	554.7	554.2	550.8	557.9	552.3	550.8	551.4	557.5	556.5	554.4	554.3	552.6	557.9	550.9	6.5	-2.1	-1.7	1.7
Change vs Prior	Mean El.		0.0	0.0	541.9	-1.6	-1.4	-3.1	-3.3	-5.4	5.6	11.0	-0.3	4.4	-0.7	2.8	2.1	-2.1	0.9	-0.1	-1.5	1.6	2.5	1.5	-0.9	-0.9	-1.5						
	Highest El.		0.0	0.0	542.0	-1.8	-0.2	-1.0	-5.0	-4.0	13.2	1.7	4.7	0.3	1.0	3.8	-0.5	-3.4	7.1	-5.6	-1.5	0.6	6.1	-1.0	-2.1	-0.1	-1.7						

GROUNDWATER ELEVATION DATA ANALYSIS

CENTRAL MESA																																	
SP-9A	Mean El.	254.7	232.0	232.0	227.5	236.3	222.2	220.0	233.3	215.1	221.9	226.8	220.8	222.0	222.0	224.6	226.8	226.4	228.0	229.3	229.5	230.0	229.7	229.9	228.3	227.5	227.1	Dec-83	225.9	4.0	2.5	-0.5	1.2
	Highest El.	270.0	232.0	232.0	232.0	236.3	224.0	222.2	235.2	222.9	228.5	228.5	225.5	223.8	223.7	231.1	229.0	226.9	231.0	230.6	232.3	231.5	232.5	231.9	229.7	229.7	228.4	270.0	228.8	3.1	-2.7	-1.3	-0.3
SP-16	Mean El.	226.5	195.4	174.3	171.9	171.5	161.8	113.0	86.5	95.7				68.2	47.9	48.0	46.5	48.4	53.1	47.9	46.0	46.6	87.0	51.6	50.1	50.1	53.7	Mar-84	56.0	15.4	5.8	3.6	-2.3
	Highest El.	226.5	214.7	180.3	174.2	177.1	182.5	147.8	89.5	121.0				117.8	61.3	66.5	53.5	78.7	89.7	64.4	46.6	49.2	124.0	57.7	50.9	61.8	79.4	226.5	74.8	26.7	12.9	17.6	4.6
SP-16A	Mean El.					181.2	153.3	122.0	108.4	108.3	122.2	125.7	147.9	127.6	113.4	126.0	126.8	149.2	180.8	146.0	105.0	133.0	185.1	182.1	180.1	165.8	173.7	Jan-05	144.4	27.4	47.8	7.9	29.4
	Highest El.					181.2	180.3	148.8	124.5	124.5	184.5	169.1	186.3	182.3	154.9	185.5	182.4	189.4	184.5	183.9	170.0	183.0	196.2	183.8	182.8	184.4	181.8	196.2	178.3	16.1	-3.7	-2.6	3.5
SP-17	Mean El.	406.0	401.8	395.3	399.1	398.3	393.3	392.0	385.1	382.7		385.5	390.1	389.3	388.3	393.6	390.0	385.6	389.1	386.9	387.9	388.6	393.8	393.6	391.9	388.4	386.8	Jan-84	388.9	3.1	-6.8	-1.6	-2.2
	Highest El.	410.0	403.0	395.3	400.1	400.0	401.0	394.1	386.0	383.2		389.8	404.3	396.5	396.5	408.8	395.5	386.9	399.2	389.1	396.4	392.0	406.5	398.1	401.5	392.5	394.8	410.0	396.0	6.9	-14.0	2.3	-1.2
SP-17A	Mean El.						360.1	377.4	376.6	374.5	379.2	379.8	377.8	379.3	377.2	379.1	379.1	375.3	376.6	375.6	374.9	376.0	378.0	379.4	378.4	375.3	374.2	Feb-94	377.2	1.9	-4.9	-1.1	-3.0
	Highest El.						372.4	378.5	377.7	375.7	385.0	389.8	384.4	381.6	380.5	386.7	382.9	376.4	381.1	377.3	376.5	377.2	385.2	383.4	380.7	376.3	376.3	389.8	380.9	4.2	-10.4	0.0	-4.6
SP-24	Mean El.	195.3	102.1	49.0	49.2		49.0		35.1	38.6	38.5	38.9	37.2	39.0	39.1	40.0	41.6	41.4	41.7	42.3	41.4	43.3	46.3	47.6	46.1	45.3	45.6	Mar-84	41.9	3.2	5.6	0.3	3.7
	Highest El.	220.6	170.0	50.0	52.0		52.0		39.6	40.0	38.9	41.0	39.6	39.6	39.8	42.0	43.3	42.2	43.0	43.7	41.8	44.0	51.0	50.2	48.2	46.0	46.0	220.6	43.4	3.7	4.0	0.0	2.6
SP-35	Mean El.																92.2	88.3	93.6	97.4	90.5	89.4	90.8	88.2	86.8	85.9	86.0	Apr-01	89.9	3.5		0.1	-3.9

PLATE A-2

Piezometer I.D.		1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	**2008-2009**	Highest Recorded	Mean '91 - '09	Stand Dev.	08-09 vs 97-98	08-09 vs 07-08	08-09 vs mean
	Highest El.																101.3	91.0	104.0	102.9	92.7	90.6	95.2	89.0	87.2	86.4	90.2	104.0	93.7	6.3		3.8	-3.5
SP-36	Mean El.																193.3	193.0	192.8	192.3	191.4	191.0	191.4	191.3	191.0	190.7	190.1	Mar-99	191.7	1.0		-0.6	-1.6
	Highest El.																195.2	193.4	193.0	192.7	191.9	191.2	192.2	191.8	191.3	190.9	190.5	195.2	192.2	1.3		-0.4	-1.7
Area Average	Mean El.	270.6	232.8	212.6	211.9	246.8	223.3	244.9	204.1	202.5	190.4	231.3	234.7	204.2	198.0	201.9	187.0	188.4	194.5	189.7	183.3	187.2	200.3	195.4	194.1	191.1	192.1		198.1	14.0	-9.7	1.0	-6.0
	Highest El.	281.8	254.9	214.4	214.6	248.7	235.4	258.3	208.8	211.2	209.2	243.6	248.0	223.6	209.5	220.1	197.9	198.1	203.2	198.1	193.5	194.8	210.4	198.2	196.5	196.0	198.4		208.4	16.2	-21.7	2.4	-9.9
Change vs Prior	Mean El.		-37.8	-20.2	-0.7	34.9	-23.5	21.6	-40.8	-1.7	-12.0	40.9	3.4	-30.5	-6.2	3.9	-14.8	1.4	6.0	-4.7	-6.4	3.9	13.0	-4.8	-1.4	-3.0	1.0						
	Highest El.		-26.9	-40.5	0.2	34.1	-13.3	22.9	-49.5	2.5	-2.0	34.4	4.4	-24.4	-14.2	10.7	-22.2	0.2	5.1	-5.1	-4.6	1.3	15.5	-12.1	-1.7	-0.5	2.4						
WESTERN EXTENSION																																	
SP-20	Mean El.	317.0	254.6	220.5	213.3	194.5	217.5	186.2	198.8	160.3	184.9	175.1	149.8	155.0	162.1	165.5	231.8	196.9	204.6	195.8	186.4	183.1	219.7	228.8	230.9	237.6	221.0	Feb-84	193.8	29.2	55.5	-16.6	27.1
	Highest El.	350.0	277.0	224.0	216.7	194.5	231.0	214.5	202.4	165.5	233.0	223.3	159.4	158.6	211.6	224.7	290.1	202.4	221.4	247.1	187.6	196.3	248.2	234.7	235.8	245.6	237.3	350.0	217.9	34.6	12.6	-8.3	19.4
SP-21	Mean El.		436.7	407.0		404.0	403.1	402.2	390.5	351.1	353.5	356.0	369.8	368.9	368.7	372.4	374.6	379.5	388.5	387.7	379.4	378.6	390.4	394.0	391.2	388.1	383.9	Apr-94	376.5	13.2	11.5	-4.2	7.4
	Highest El.		450.9	407.0		405.0	407.0	410.4	399.1	358.9	361.2	358.0	393.9	374.3	377.1	396.4	379.3	389.6	401.2	393.0	385.5	381.9	408.9	403.3	396.4	393.2	387.5	450.9	385.5	15.1	-8.9	-5.7	2.0
SP-22	Mean El.		461.1	450.5	451.9	447.5	450.5	451.4	451.0	454.3	457.5	455.3	463.9	462.1	468.9	466.0	468.6	468.8	469.2	470.8	473.0	471.2	471.9	470.2	469.9	469.1	467.9	Dec-96	466.6	5.7	1.9	-1.2	1.3
	Highest El.		493.5	450.5	454.1	450.9	455.7	451.4	451.3	468.0	471.3	464.5	477.0	469.6	501.5	470.4	470.7	471.0	474.2	471.1	476.6	475.1	475.1	471.0	470.9	470.9	469.7	501.5	473.3	7.7	-0.7	-1.2	-3.6
SP-23	Mean El.					514.2	491.0	499.2	495.6	486.0	496.6	500.8	508.6	511.6	501.5	500.4	486.7	478.0	473.9	476.2	488.9	486.1	496.1	490.7	489.8	494.1	499.8	Feb-96	492.5	10.5	-0.6	5.7	7.2
	Highest El.					514.2	491.0	536.0	509.1	489.4	513.1	507.3	518.2	549.6	527.6	518.4	502.7	488.7	488.6	504.5	538.1	535.7	534.6	500.5	492.0	502.0	503.1	549.6	511.9	18.7	-15.3	1.1	-8.8
Area Average	Mean El.	317.0	384.2	359.3	332.6	390.0	390.5	384.7	384.0	362.9	373.1	371.8	373.0	374.4	375.3	376.1	390.4	380.8	384.0	382.6	381.9	379.8	394.5	395.9	395.5	397.2	393.1		382.4	10.1	17.1	-4.1	10.8
	Highest El.	350.0	407.1	360.5	335.4	391.2	396.2	403.1	390.5	370.5	394.7	388.3	387.1	388.0	404.5	402.5	410.7	387.9	396.4	403.9	397.0	397.3	416.7	402.4	398.8	402.9	399.4		397.2	10.4	-3.1	-3.5	2.2
Change vs Prior	Mean El.		67.2	-24.8	-26.7	57.4	0.5	-5.8	-0.8	-21.0	10.2	-1.4	1.2	1.4	0.9	0.8	14.4	-9.6	3.2	-1.4	-0.7	-2.2	14.8	1.4	-0.5	1.7	-4.1						
	Highest El.		57.1	-46.6	-25.1	55.8	5.0	6.9	-12.6	-20.0	24.2	-6.4	-1.1	0.9	16.4	-2.0	8.2	-22.8	8.4	7.6	-7.0	0.3	19.4	-14.3	-3.6	4.1	-3.5						
EASTERN MESA																																	
PC-1	Mean El.												148.0	142.4	148.1	139.4	138.4	136.6	137.6	138.4	138.3	139.1	140.2	141.9	139.8	136.2	136.7	Dec-96	140.1	3.7	-2.7	0.5	-3.4
	Highest El.												148.2	145.2	190.0	153.5	138.9	137.5	138.8	138.9	139.2	139.6	142.4	142.5	141.5	137.2	138.1	190.0	144.8	13.3	-15.4	0.9	-6.7
SP-3	Mean El.	125.5	119.8	118.5	121.3	122.0	118.3			117.7		119.7	120.6	121.6	118.7	119.2	119.1	117.9	118.0	117.1	111.4	111.7	109.0	116.2	115.4	110.3	94.0	Nov-83	115.1	6.6	-25.2	-16.3	-21.1
	Highest El.	126.1	120.0	118.5	121.5	125.9	120.0			118.4		120.7	124.6	123.7	120.7	120.6	120.2	118.4	118.4	118.5	114.8	114.9	117.9	117.1	116.9	115.5	100.6	126.1	117.8	5.2	-20.0	-14.9	-17.2
SP-3A	Mean El.		105.0	74.0	79.5	75.7	79.2	80.5	82.5	89.5	86.3	88.6	87.6	99.1	94.1	96.1	96.8	79.2	77.0	75.1	72.3	62.5	67.8	68.7	68.5	67.1	65.7	Apr-85	80.1	12.2	-30.4	-1.4	-14.5
	Highest El.		105.0	74.0	81.4	78.4	80.0	81.0	85.4	99.0	90.5	94.0	100.3	101.2	95.6	103.6	101.4	83.0	82.2	76.1	74.1	72.0	93.5	70.2	69.7	68.2	66.7	105.0	85.6	13.4	-36.9	-1.5	-18.9
SP-33	Mean El.						151.6	149.0	148.3	144.4	118.7	126.5	100.2	93.8	89.2	88.7	87.1	84.4	78.2	75.7	73.8	72.1	71.2	69.5	68.1	66.8	67.9	May-92	87.6	22.2	-20.8	1.1	-19.7
	Highest El.						156.7	149.8	148.5	155.5	123.1	134.9	109.0	95.4	91.3	90.9	90.7	89.2	79.9	77.0	74.5	72.9	73.5	70.1	68.7	67.5	70.9	156.7	90.8	24.9	-20.0	3.4	-19.9
Area Average	Mean El.	125.5	112.4	96.3	100.4	98.8	116.3	114.8	115.4	117.2	102.5	111.6	114.1	114.2	112.6	110.8	110.3	104.6	102.7	101.6	98.9	96.4	97.1	99.1	98.0	95.1	91.1		104.3	7.8	-19.8	-4.0	-13.2
	Highest El.	126.1	112.5	96.3	101.5	102.2	118.9	115.4	117.0	124.3	106.8	116.5	120.5	116.4	124.4	117.2	112.8	107.0	104.8	102.6	100.7	99.9	106.8	100.0	99.2	97.1	94.1		108.4	9.6	-23.1	-3.0	-14.3
Change vs Prior	Mean El.		-13.1	-16.1	4.1	-1.6	17.5	-1.6	0.6	1.8	-14.7	9.1	2.5	0.1	-1.6	-1.7	-0.5	-5.8	-1.8	-1.2	-2.6	-2.6	0.7	2.0	-1.1	-2.9	-4.0						
	Highest El.		-13.6	-16.3	5.2	0.7	16.8	-3.5	1.6	7.3	-17.5	9.7	4.0	-4.1	8.0	-7.2	-4.4	-5.8	-2.2	-2.2	-2.0	-0.8	7.0	-6.9	-0.8	-2.1	-3.0						

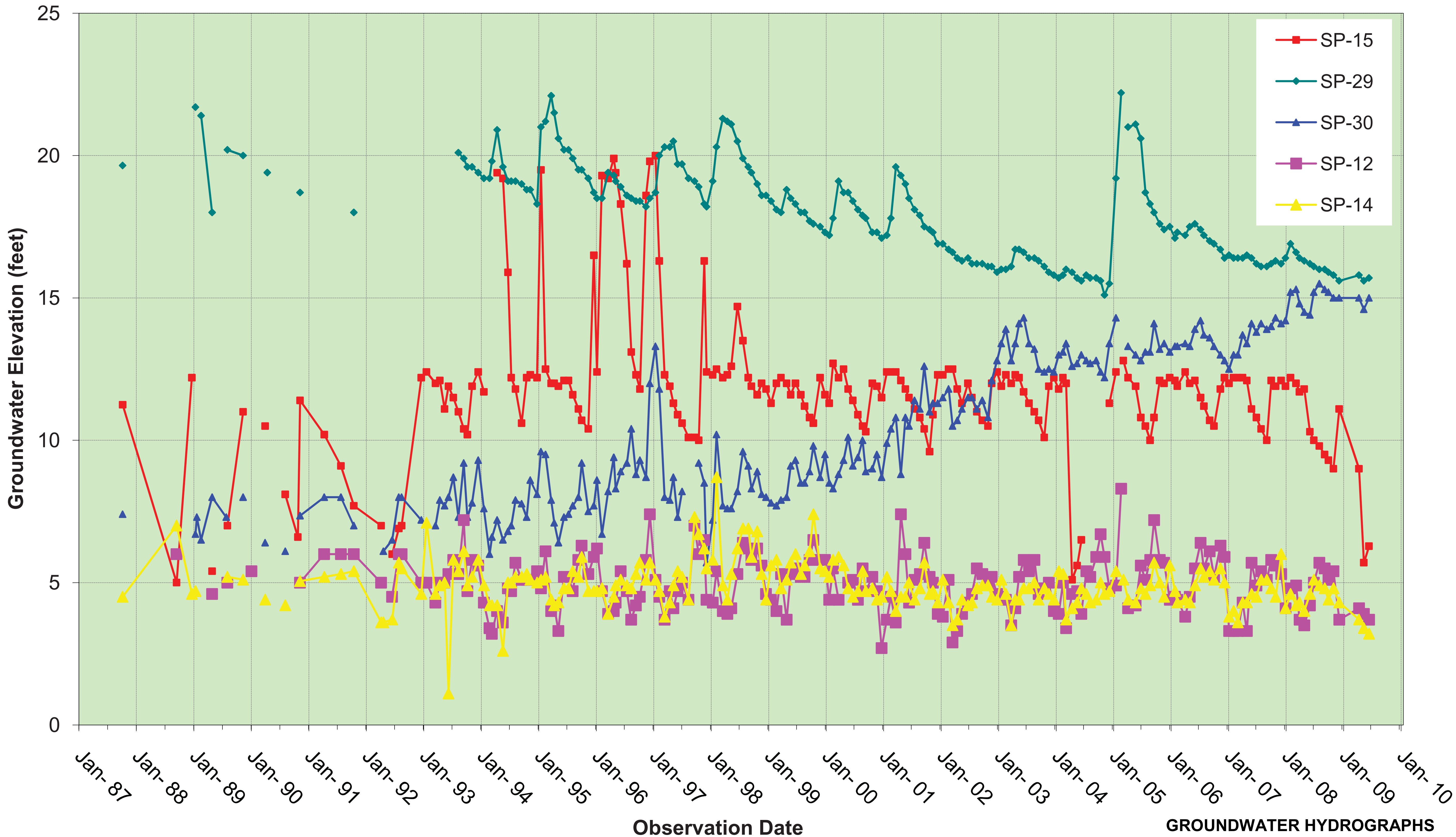
GROUNDWATER ELEVATION DATA ANALYSIS

Piezometer Not Installed

No Data Recorded

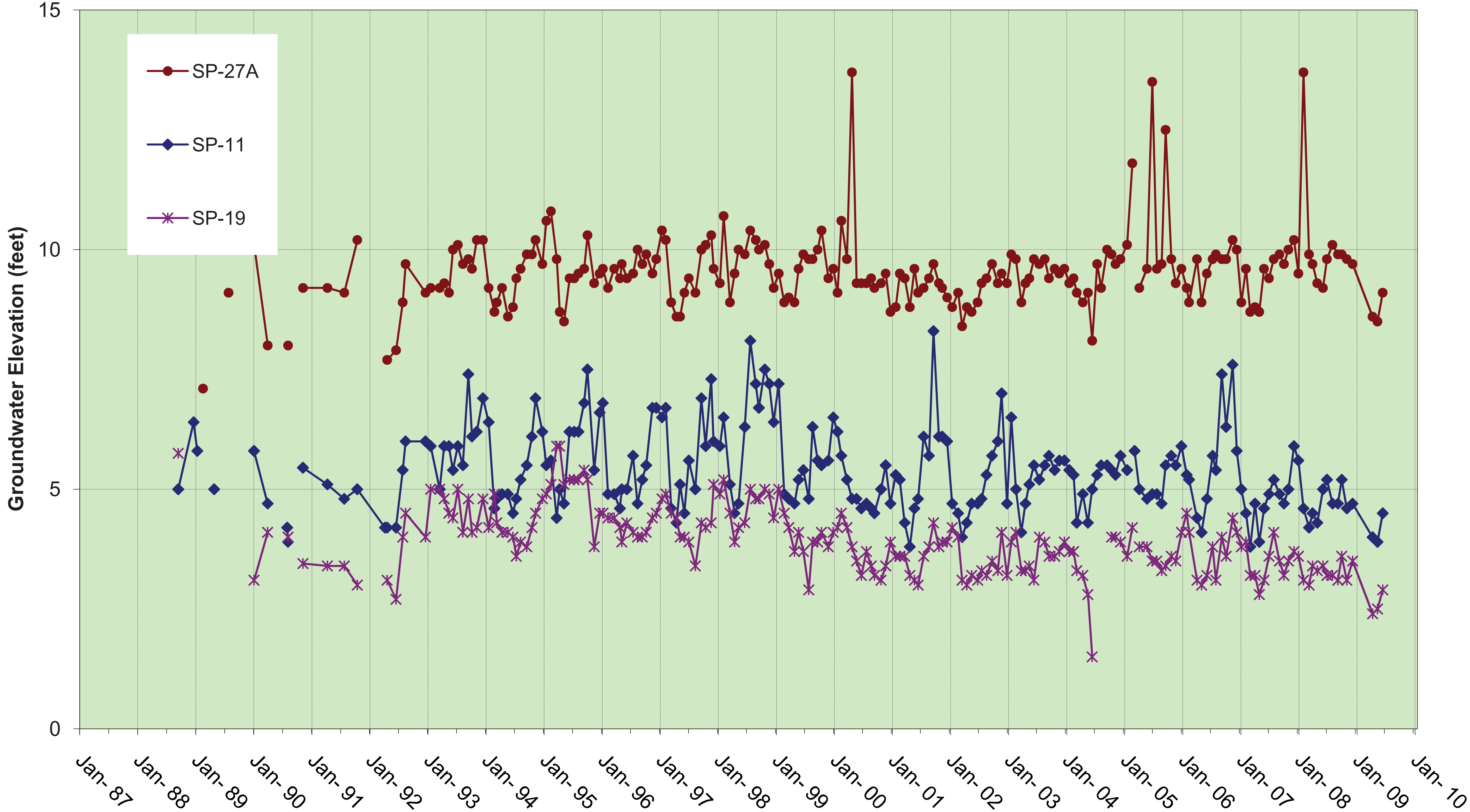
BRM-MATER Water Levels.xls/Summary DATA to 02-03

PLATE A-2



GROUNDWATER HYDROGRAPHS
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE A-3a



GROUNDWATER HYDROGRAPHS
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
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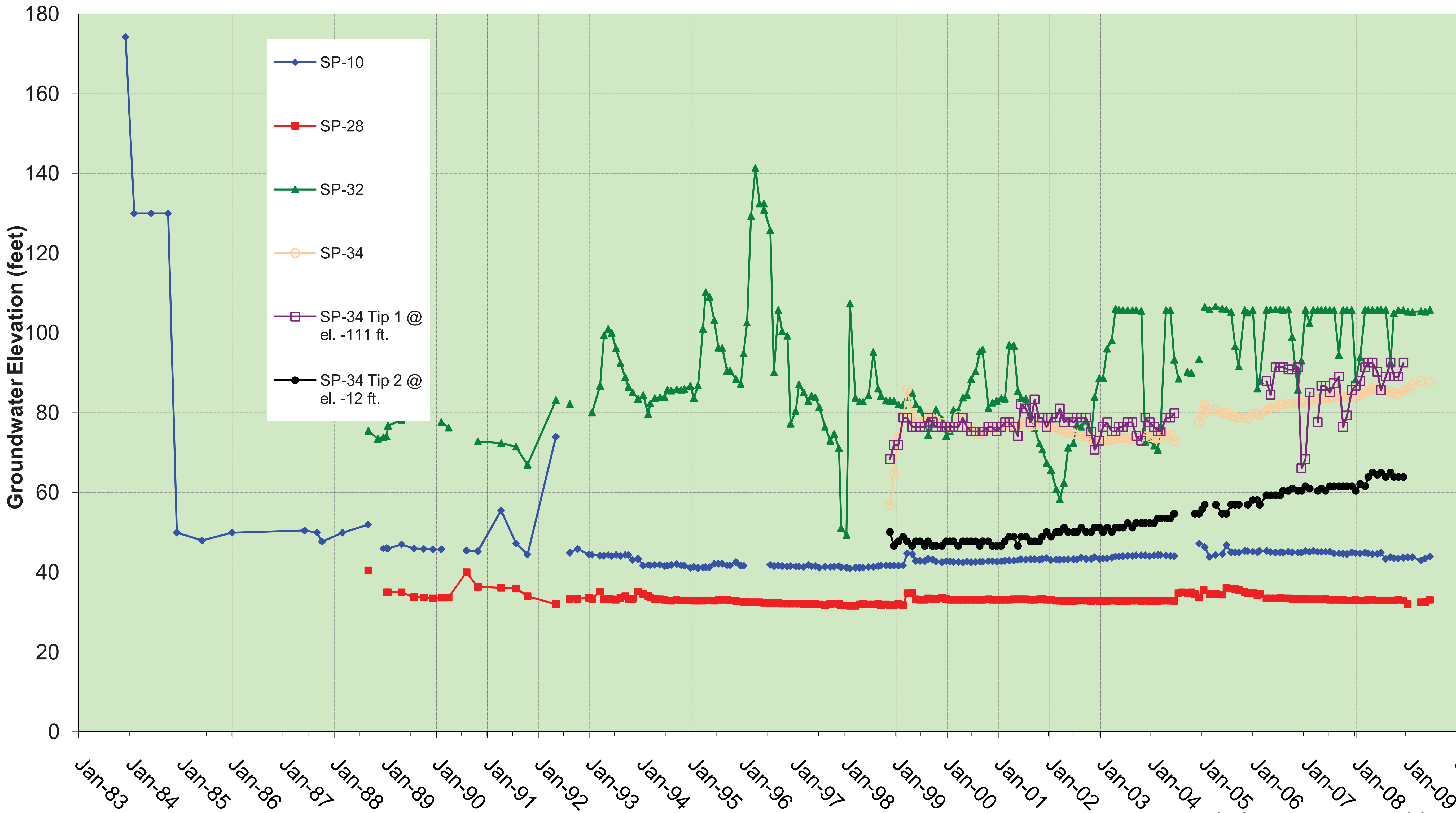
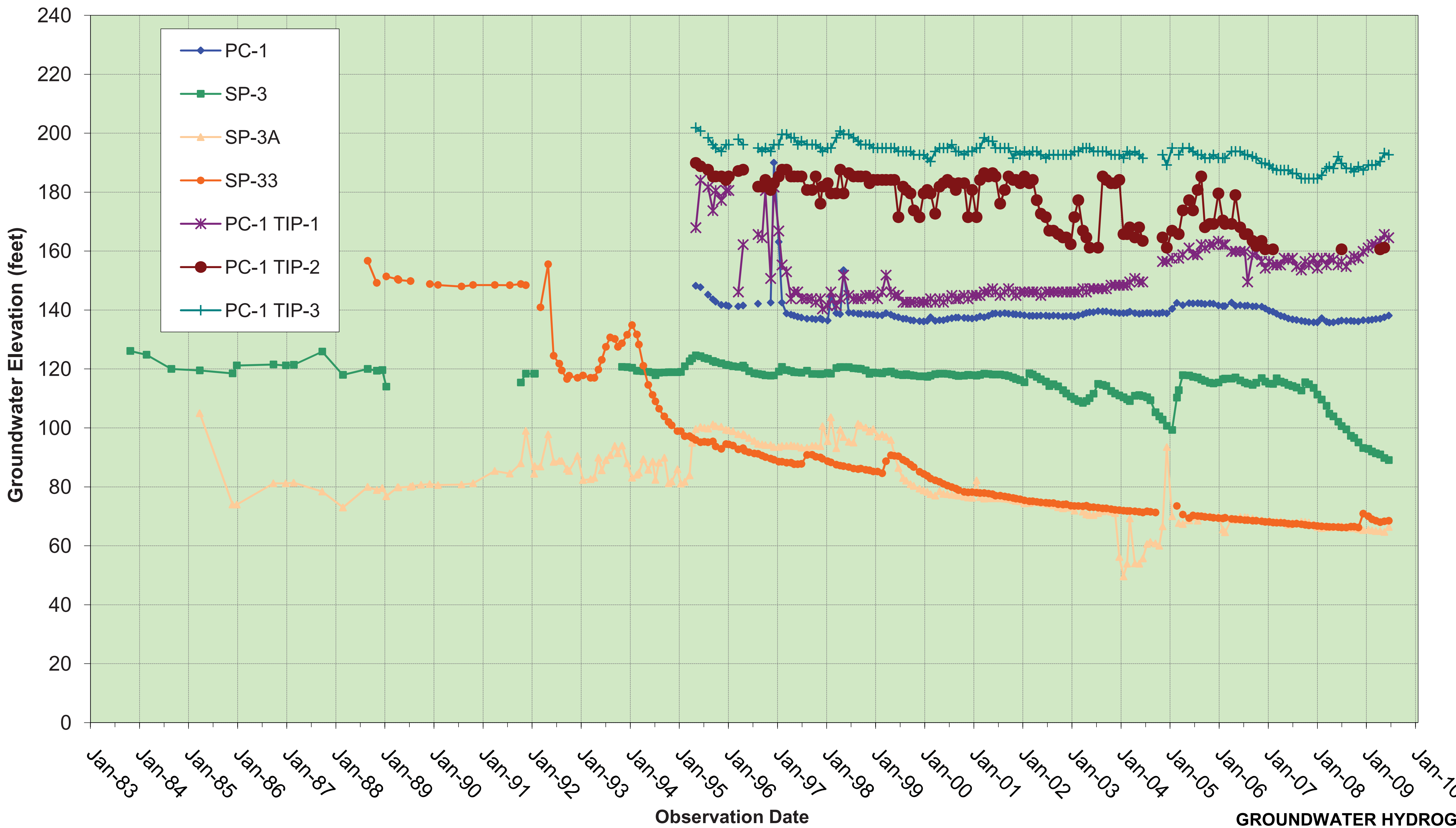
PLATE A-3b



GROUNDWATER HYDROGRAPHS
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE A-4



GROUNDWATER HYDROGRAPHS
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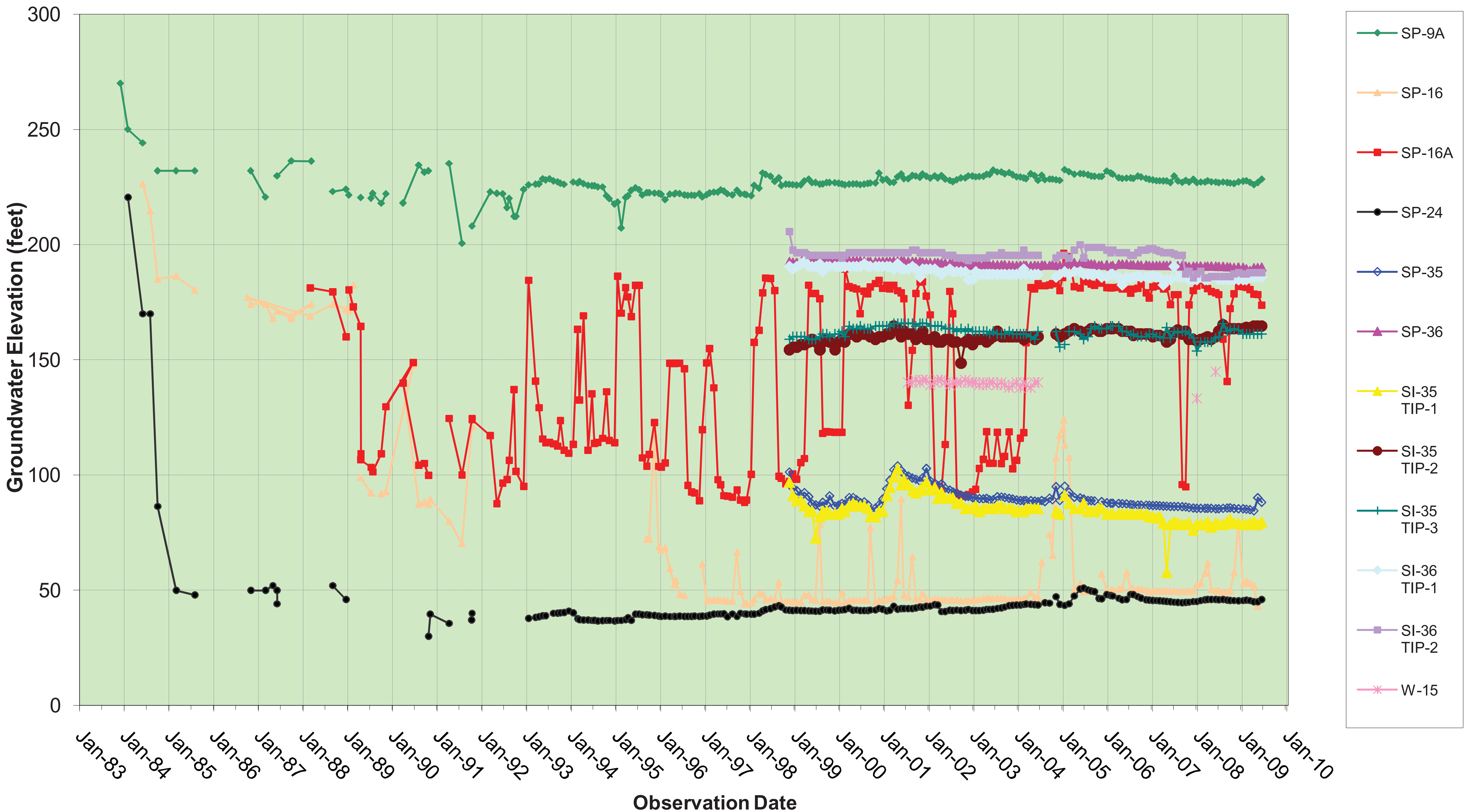
Big Rock Mesa Landslide Assessment District
Malibu, California



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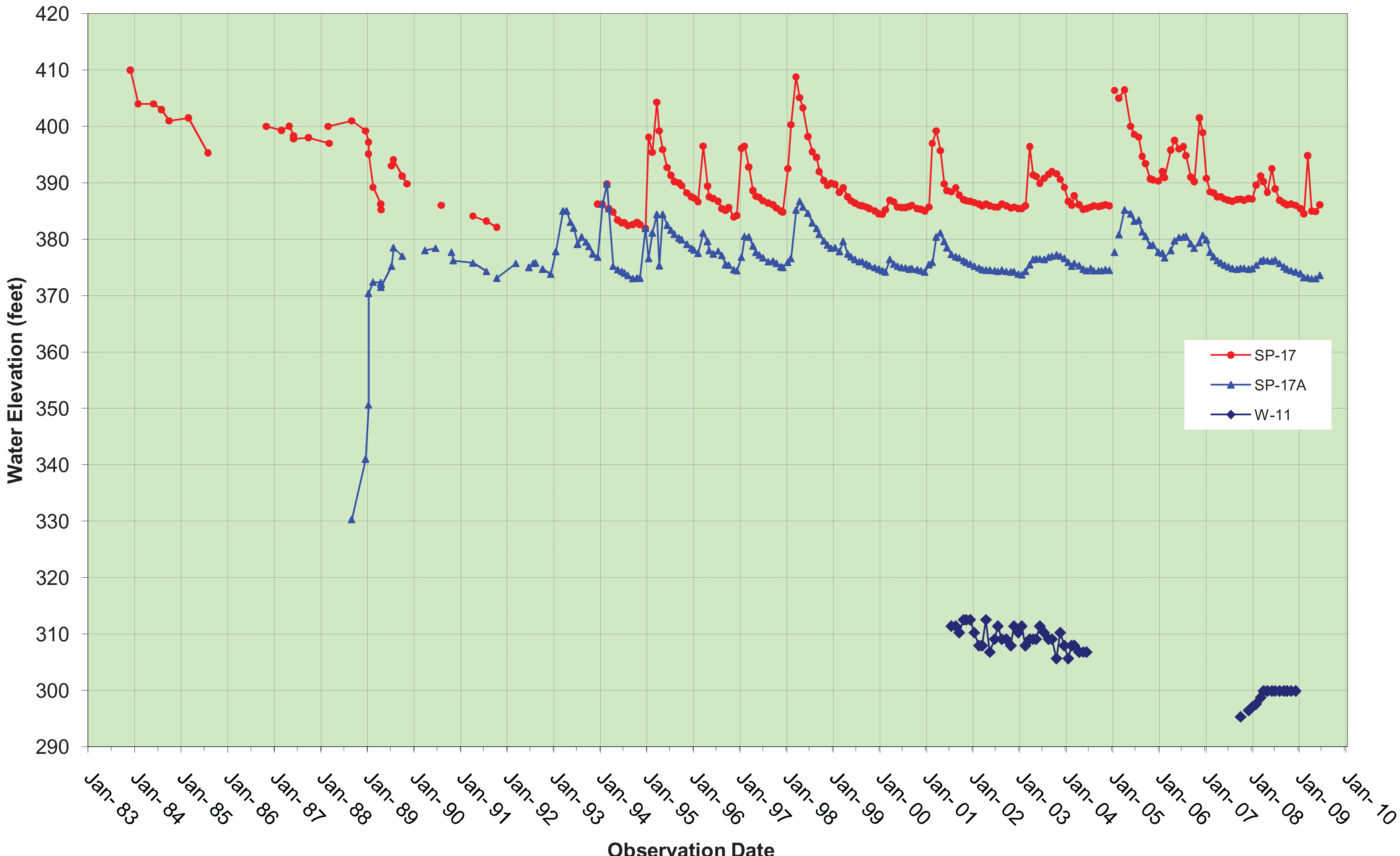
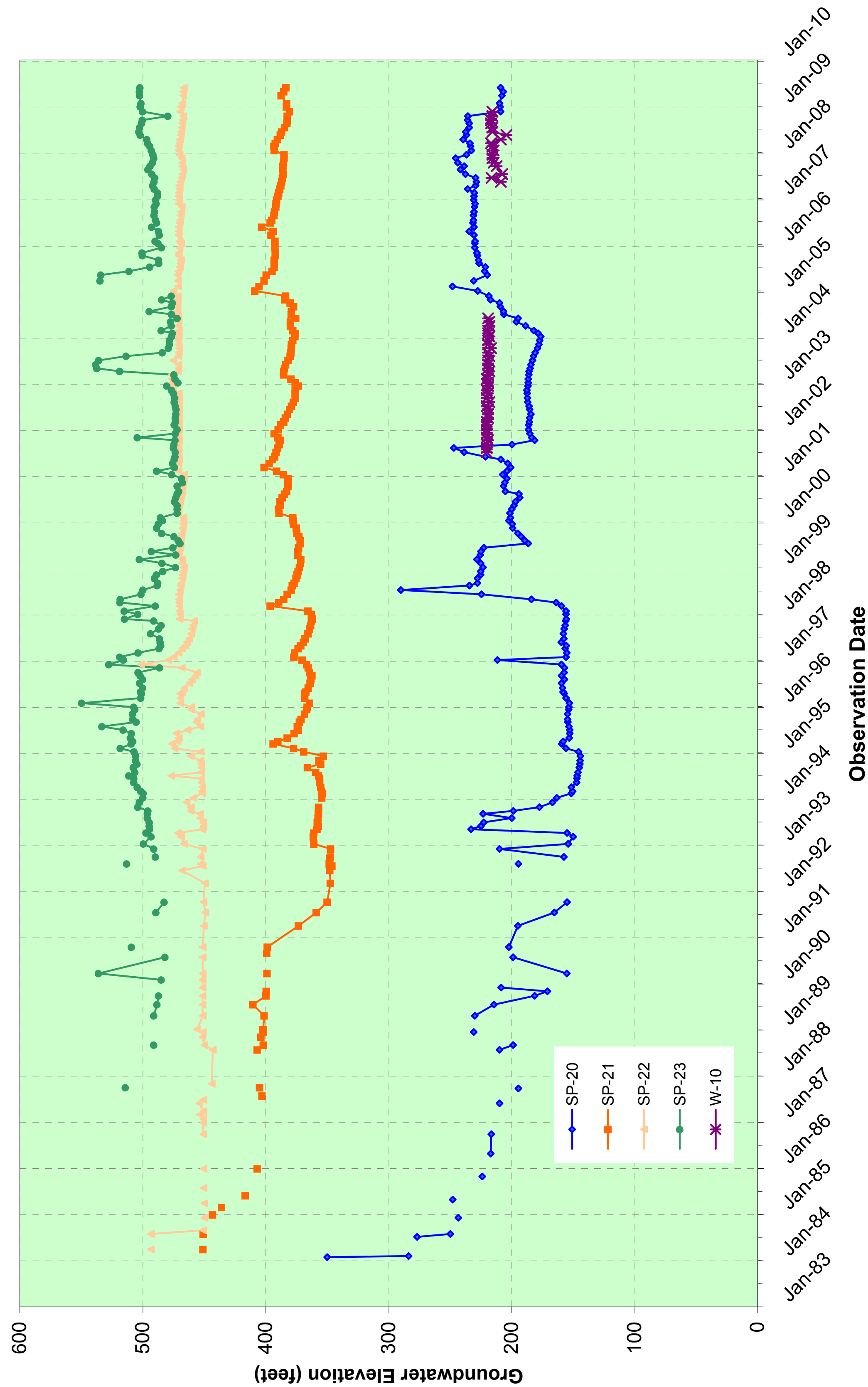
Malibu, California

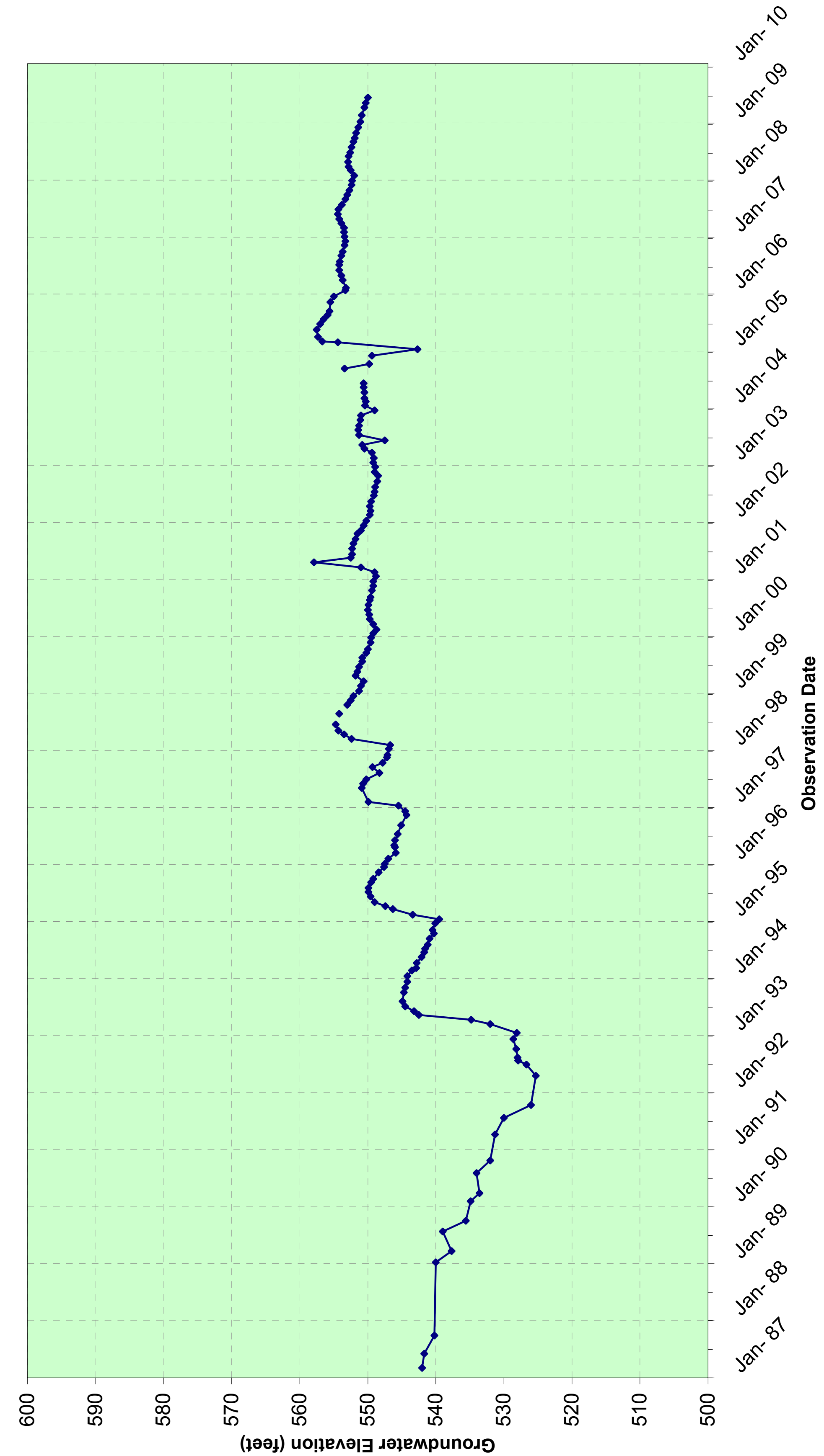


GROUNDWATER HYDROGRAPHS
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE A-6b



GROUNDWATER HYDROGRAPHS
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California



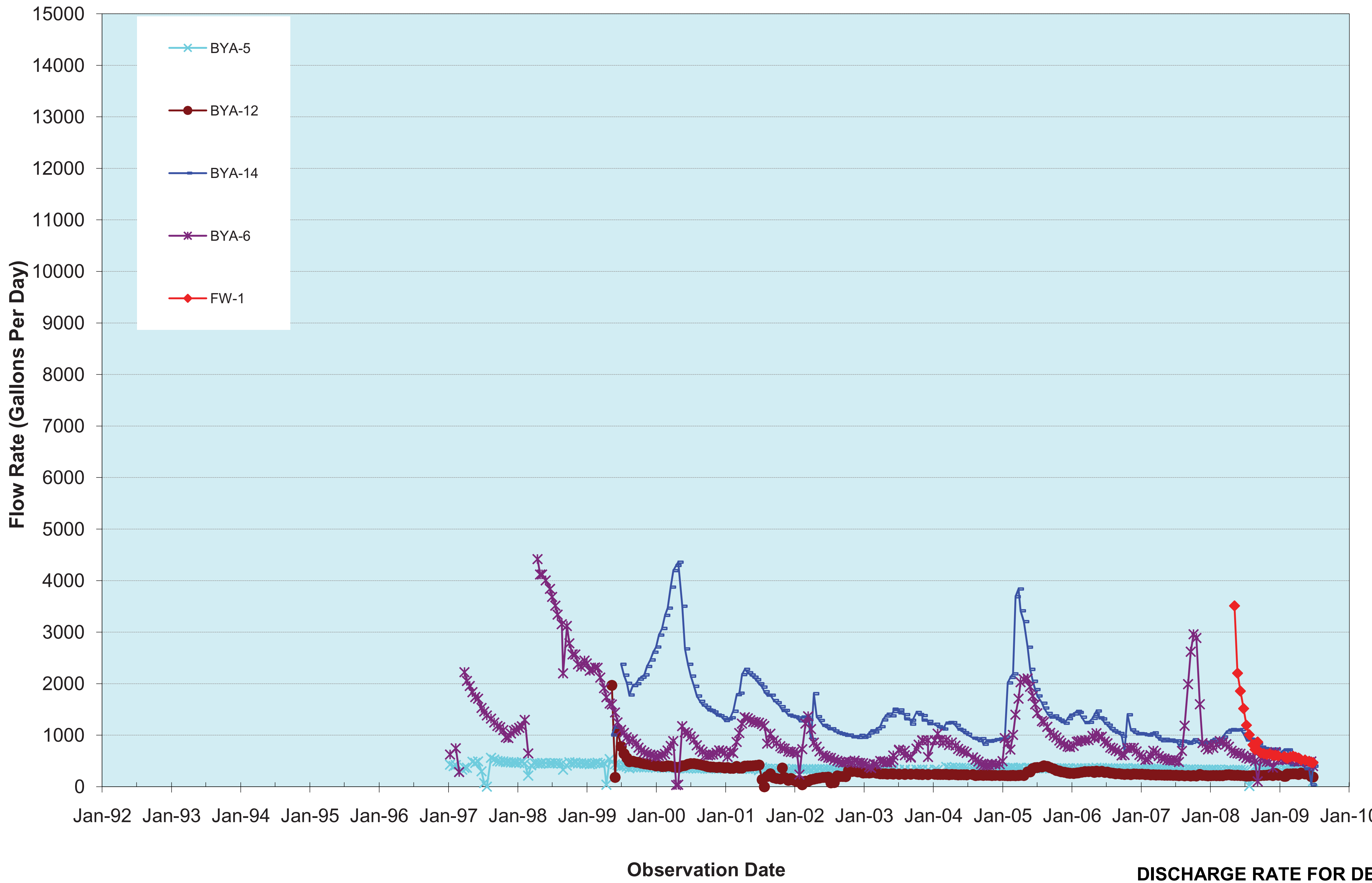
GROUNDWATER HYDROGRAPHS
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California

APPENDIX B
DEWATERING WELL DATA

Big Rock Mesa: Dewatering Well Information								
Well I.D.	TOP ELEV. (ft.)	BOTTOM ELEV. (ft.)	PUMP ELEV. (ft.)	PUMP SIZE (HP)	2008-09 PUMPING RATE (GPD)	% of TOTAL PRODUCTION	Rank	COMMENT
W-1	210.5	-30	14.5	1.5	821	2%	15	
W-2	219	41	44	1.5	1,769	4%	9	
W-3	243.5	65.5	70.5	3/4	215	0%	21	
W-4	248	-10	N/A	N/A	0	0%	23	Casing Perforations closed due to siltation
W-5	280	252	N/A	N/A	0	0%	23	Capped 4/4/84
W-6	174	80	N/A	N/A	0	0%	23	Static water level at bottom of casing
W-7	257	171	N/A	N/A	0	0%	23	Static water level at bottom of casing
W-8	287	93	98	1	6,498	13%	2	
W-9	282	87	N/A	N/A	0	0%	23	Static water level at bottom of casing
W-10	432	192	194	3/4	0	0%	23	Static water level
W-11	507	285	292	3/4	0	0%	23	
W-12	375	195	N/A	N/A	0	0%	23	Casing sheared at static water level
W-13	361	184	193	1	2,437	5%	7	
W-14	283	131	N/A	N/A	0	0%	23	Static water level at bottom of casing
W-15	295	121	130	3/4	0	0%	23	Static water level at bottom of casing
W-16	325	107	113	3/4	5,795	12%	3	
W-17	270	41	50	3/4	2,620	5%	6	
W-18	750	179	225	3	8,596	18%	1	
BYA-1	281	-162	-128	3	2,435	5%	8	
BYA-2	665	215	242	1.5	773	2%	16	
BYA-3	510	-40	29	3	930	2%	12	
BYA-4	372	-68	-28	1.5	5,394	11%	4	
BYA-5	189	-231	-211	1.5	321	1%	19	
BYA-6	220	-280	-275	0.75	498	1%	18	
BYA-7	280	-120	-115	0.75	902	2%	13	
BYA-9	295	-105	-100	7.5(5)	3,841	8%	5	
BYA-10	510	210	215	1	887	2%	14	
BYA-11	275	-125	-120	0.75	1,552	3%	10	
BYA-12	207	-140	-137	0.5	227	0%	20	Installed 4/99
BYA-13	329	-14	-18	0.5	1,003	2%	11	Installed 4/99
BYA-14	340	38	40	0.5	629	1%	17	Installed 4/99
BYA-15					7	0%	22	
FW-1					646	1%	17	Installed 5/08

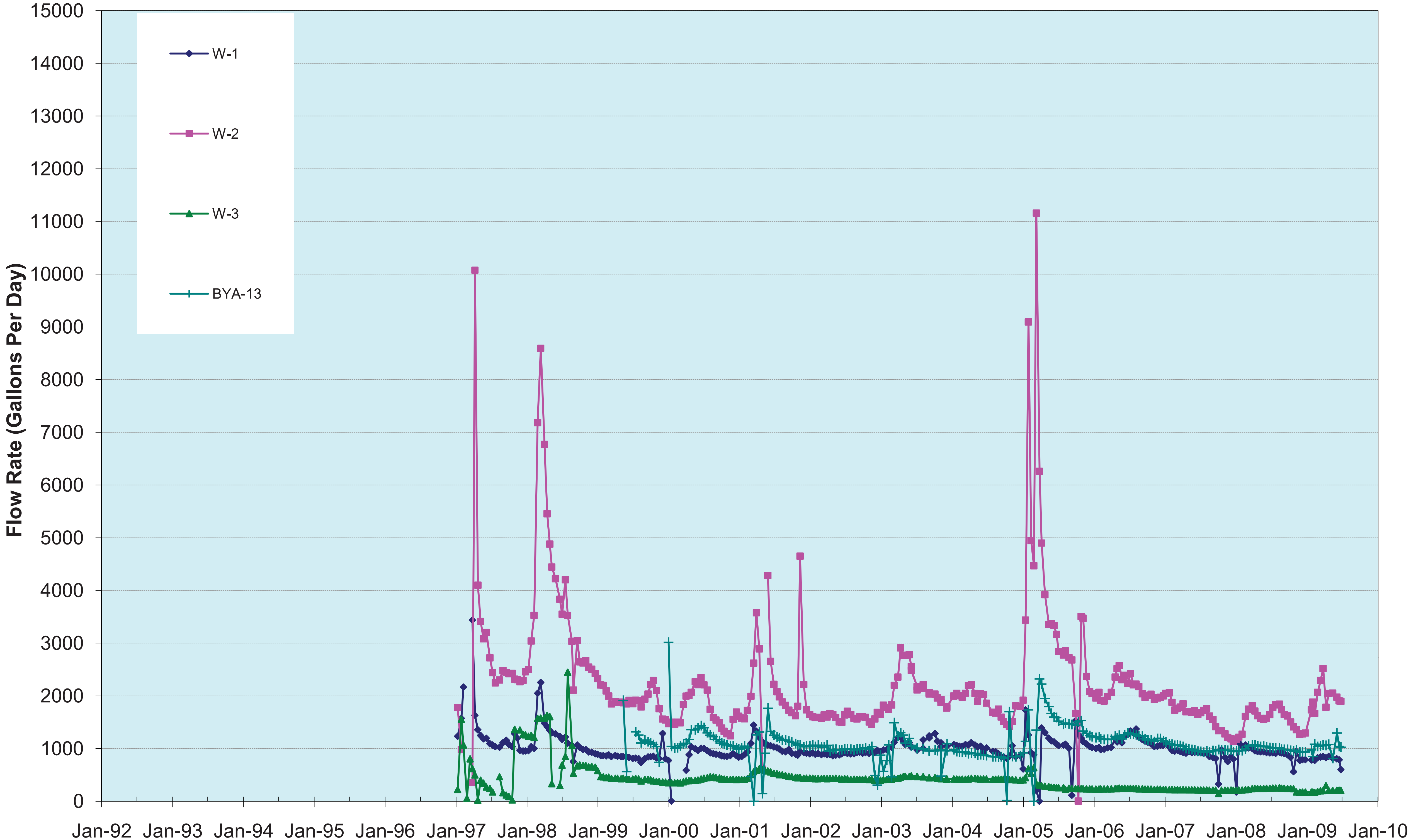
2007-08 Pumping Rate is the Average Rate of the Monitoring period:(July 07 - June 08)

SUMMARY OF DEWATERING WELL INFORMATION
Annual Report, July 2008 through June 2009
Big Rock Mesa Landslide Assessment District
Malibu, California



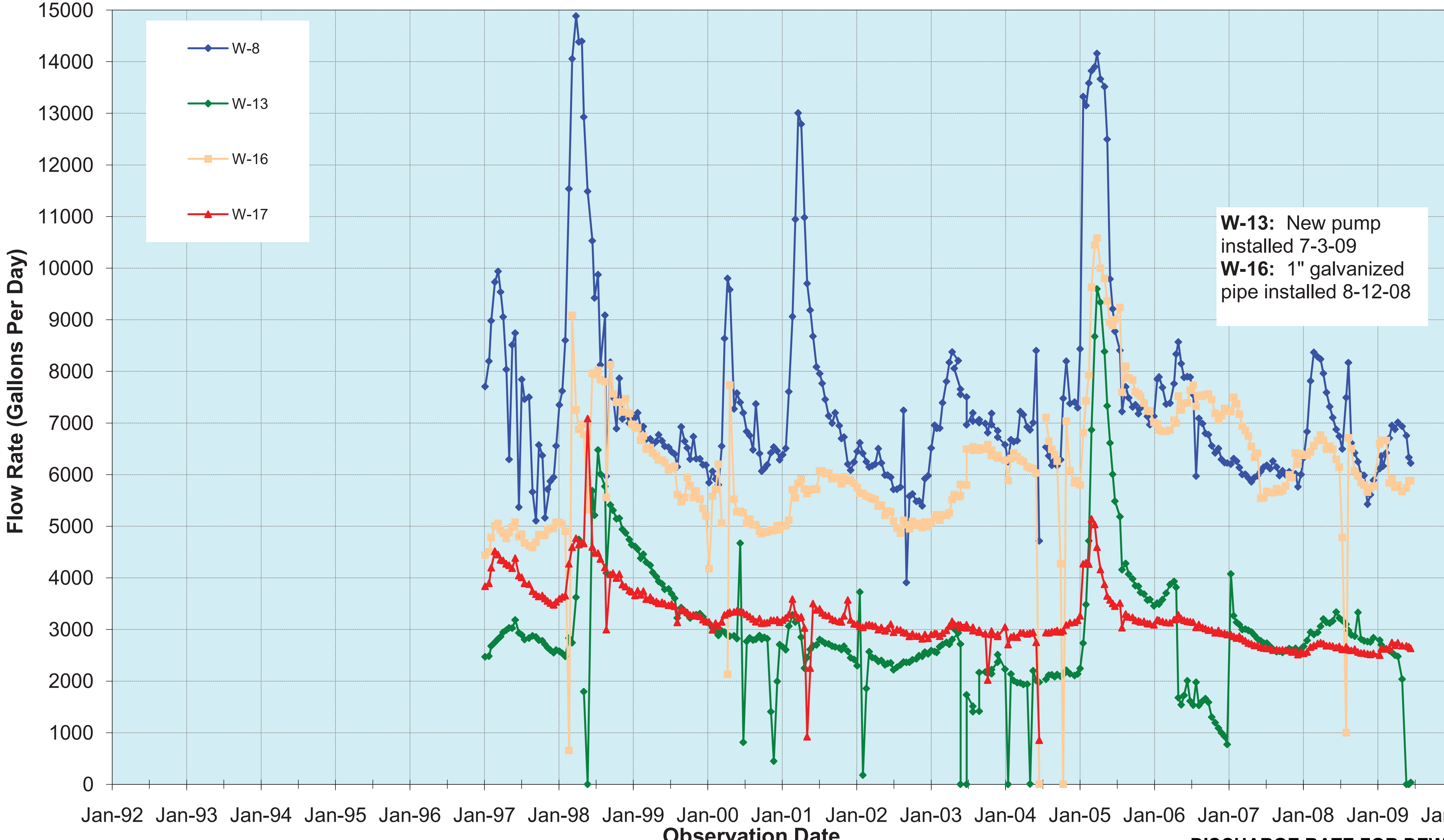
DISCHARGE RATE FOR DEWATERING WELLS
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE B-2a

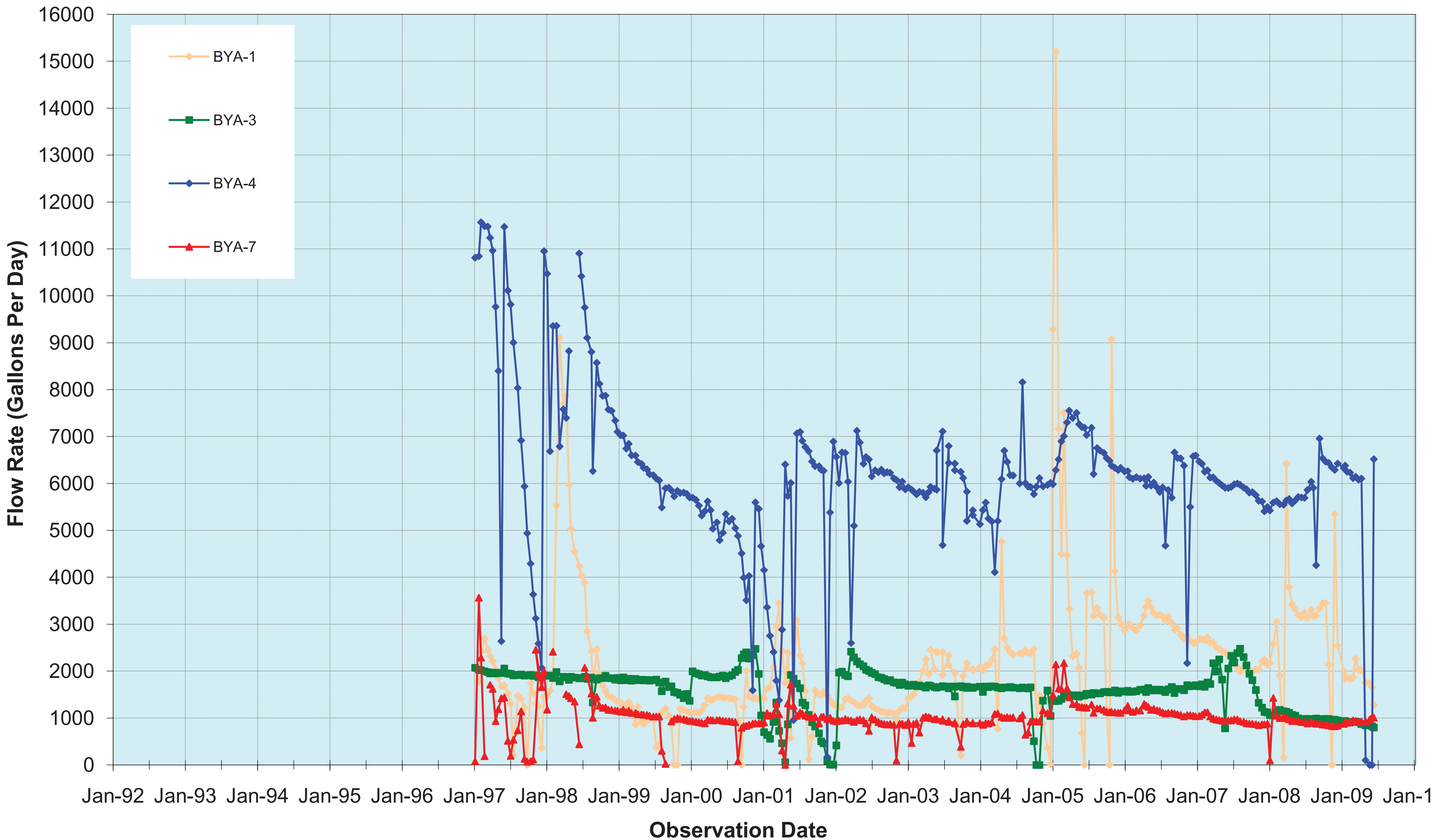


DISCHARGE RATE FOR DEWATERING WELLS
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE B-2b

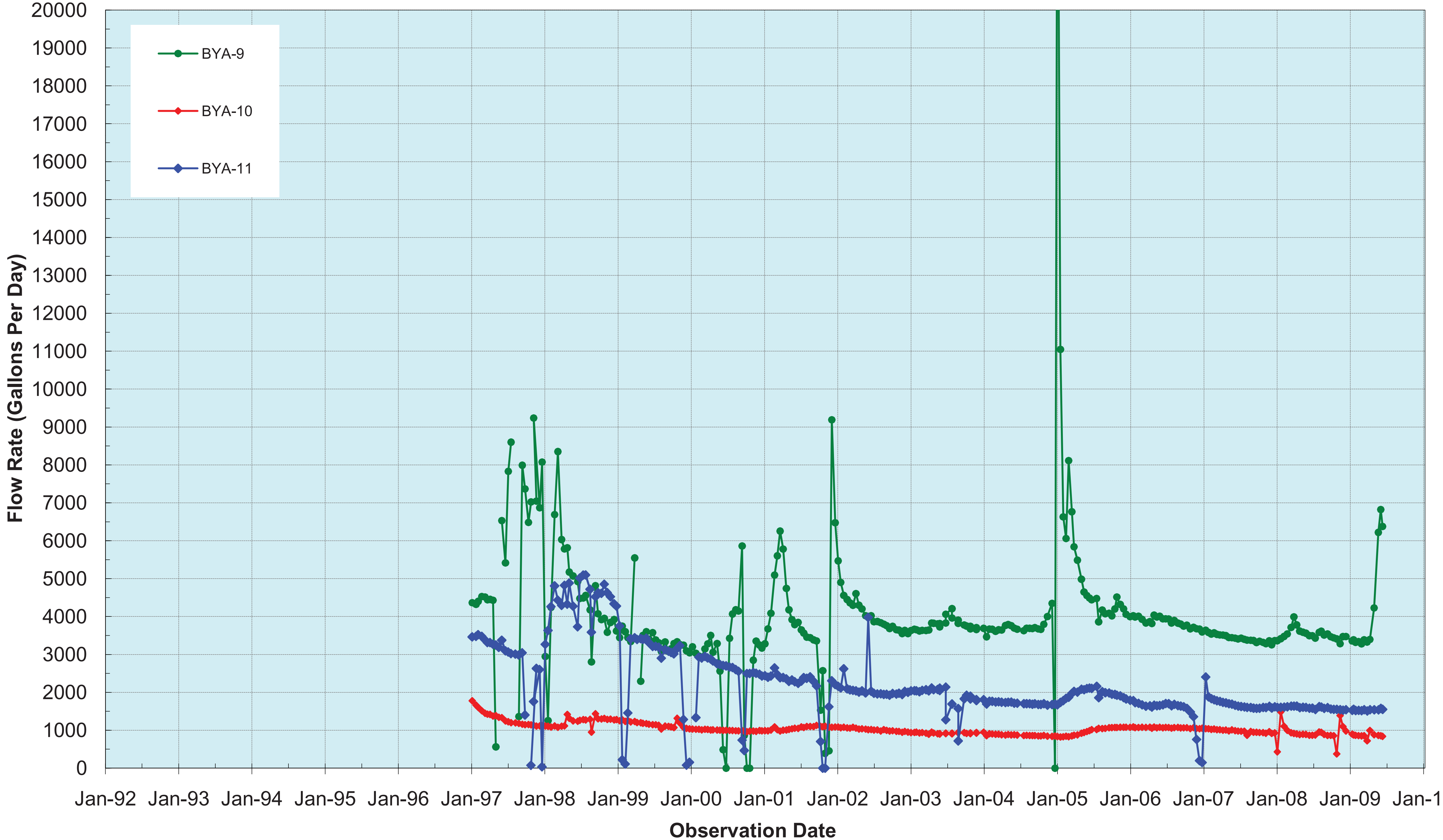


DISCHARGE RATE FOR DEWATERING WELLS
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California



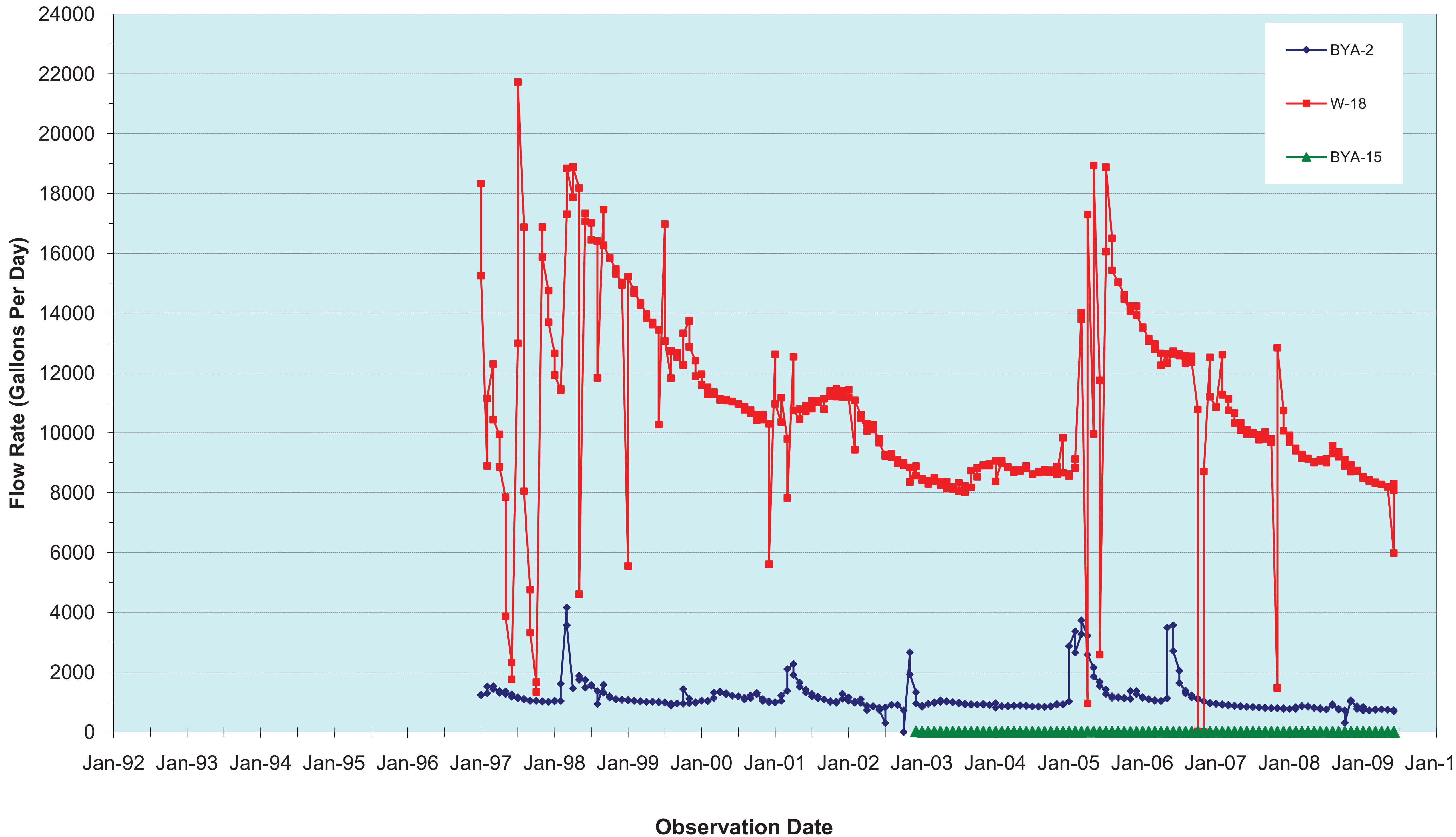
DISCHARGE RATE FOR DEWATERING WELLS
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE B-3b



DISCHARGE RATE FOR DEWATERING WELLS
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE B-3c



DISCHARGE RATE FOR DEWATERING WELLS
2008 through 2009 Annual Report
Big Rock Mesa Landslide Assessment District
Malibu, California

APPENDIX C
HYDRAUGER DATA

Big Rock Mesa: Hydrauger Data							
HYDRAUGER ID	INSTALLED LENGTH (ft.)	OPEN LENGTH (ft.)**	Orientation/ Slope	2008-2009 Average Flow (GPD)	% OF TOTAL PRODUCTION	Rank	INSTALLED BY
H-1	700	210*	S115W / 3	26	0.1%	25	MT
H-2	Unknown	0	-	0	--	32	MT
H-3a	Unknown	0	-	0	--	32	MT
H-3b	Unknown	0	-	0	--	32	MT
H-3c	Unknown	0	-	0	--	32	MT
H-4	680	115*	-	31	0.1%	24	MT
H-5a	Unknown	0	-	0	--	32	MT
H-5b	Unknown	0	-	0	--	32	MT
H-6a	100	96	-	0	--	32	CT
H-6b	100	96	-	0	--	32	CT
H-7a	100	100	-	0	--	32	CT
H-7b	100	96	-	0	--	32	CT
H-7c	50	0	-	0	--	32	CT
H-8	Unknown	0	-	0	--	32	CT
HD-1	350	340*	-	0	--	32	D.E.
HD-2a	70	33	-	0	--	32	D.E.
HD-2b	Unknown	0	-	0	--	32	D.E.
HD-2c	460	0	-	0	--	32	D.E.
HD-3	560	90*	-	3	0.0%	28	D.E.
HD-4	760	10	-	658	3.1%	13	D.E.
HD-5	890	530*	-	860	4.1%	10	D.E.
HD-6	980	490*	-	1080	5.1%	7	D.E.
HD-7	1160	420*	-	144	0.7%	18	D.E.
HD-8	530	170*	-	0	--	32	D.E.
HD-9	205	205*	-	997	4.7%	9	D.E.
HD-10	990	170*	-	638	3.0%	14	D.E.
HD-11	540	540*	-	133	0.6%	20	D.E.
HD-12	690	385*	-	2492	11.8%	3	D.E.
HD-13	650	14	-	0	--	32	D.E.
HD-14	130	130*	-	0	--	32	D.E.
HD-15	200	200*	-	1059	5.0%	8	D.E.
HD-16	575	575*	-	34	0.2%	23	D.E.
HD-17	750	176	-	0	--	32	D.E.
HD-18	870	285	-	3	0.0%	29	D.E.
HD-19	1000	182	-	0	--	32	D.E.
HD-20	1000	446	-	0	--	32	D.E.
HD-21	1560	147	-	0	--	32	D.E.
HD-22	568	540*	-	1890	9.0%	4	D.E.
HD-23	1280	260*	-	3046	14.4%	1	D.E.
HD-24	1030	580*	-	470	2.2%	15	D.E.
HD-25	1005	360*	-	160	0.8%	17	D.E.
HD-26	1200	410*	S37W / 1	690	3.3%	11	D.E.
HD-27	700	327	-	0	--	32	D.E.
HD-28	1420	595*	-	0	--	32	D.E.
HD-29	1150	450*	-	66	0.3%	22	D.E.
HD-30	1040	10*	S13W / 7	2597	12.3%	2	D.E.
HD-31	140	113	-	0	--	32	D.E.
HD-32	835	700*	-	2	0.0%	30	D.E.
HD-33	340	340	S23W / 5	111	0.5%	21	BYA
HD-34	150	150	S40W / 10	134	0.6%	19	BYA
HD-35	40	40	-	0	--	32	BYA
HD-36	150	150	-	0	--	32	BYA
HD-37	430	50	-	0	--	32	BYA
HD-38A	140	140	S23W / 5	0	--	32	BYA
HD-38B	140	140	S18W / 6	0	--	32	BYA
HD-39	400	400	S15E / 5	13	0.1%	27	BYA
HD-40	595	595	S25W / 6	0	--	32	BYA
HD-41	500	500	S18E / 3	315	1.5%	16	BYA
BYA-6a	350	20*	-	0	--	32	BYA
BYA-6b	60	60	-	0	--	32	BYA
BYA-7	400	375*	-	2	0.0%	31	BYA
BYA-H8	500	345*	-	15	0.1%	26	BYA
BYA-H9	550	550*	-	0	--	32	BYA
BYA-H10	500	10*	-	1383	6.6%	5	BYA
BYA-H11	450	400*	S7E / 3	0	--	32	BYA
HD-42	700	700		1371	6.5%	6	FWI
HD-43	700	700		671	3.2%	12	FWI

** Open Length is Measured on 10-1997 by BYA*

Installed by: MT = Moore & Taber; CT = Caltrans; D.E. = D.A. Evans; BYA = Bing Yen & Associates; FWI = Fugro West, Inc.

SUMMARY OF HYDRAUGERS

Annual Report, July 2008 through June 2009

Big Rock Mesa Landslide Assessment District

Malibu, California

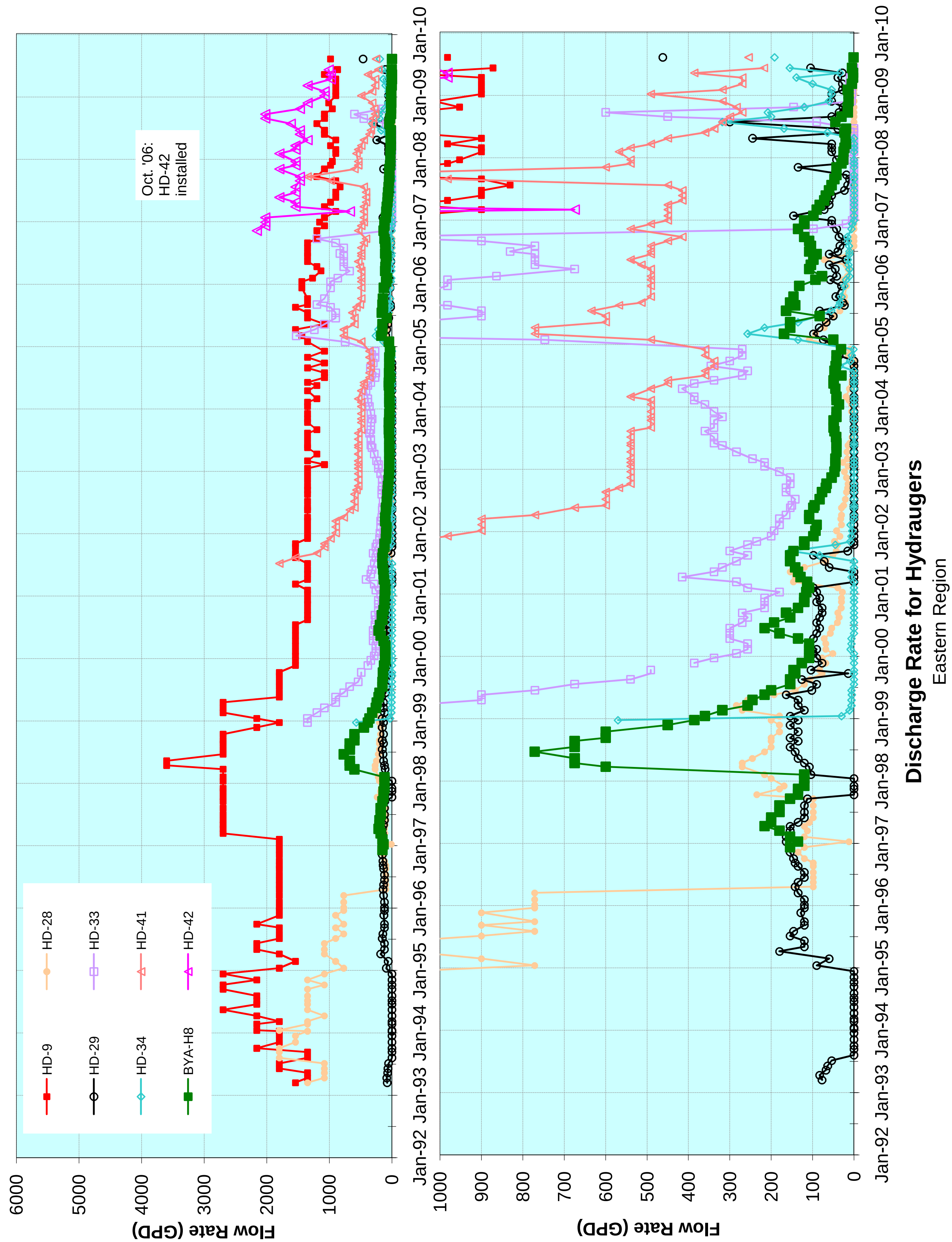

Discharge Rate for Hydraugers
Eastern Region
Flow Rate (GPD)
HD-9
HD-28
HD-29
HD-33
HD-34
HD-41
BYA-H8
HD-42
Oct. '06: HD-42 installed
Jan-92 Jan-93 Jan-94 Jan-95 Jan-96 Jan-97 Jan-98 Jan-99 Jan-00 Jan-01 Jan-02 Jan-03 Jan-04 Jan-05 Jan-06 Jan-07 Jan-08 Jan-09 Jan-10
0 1000 2000 3000 4000 5000 6000
0 100 200 300 400 500 600 700 800 900 1000

PLATE C-2a

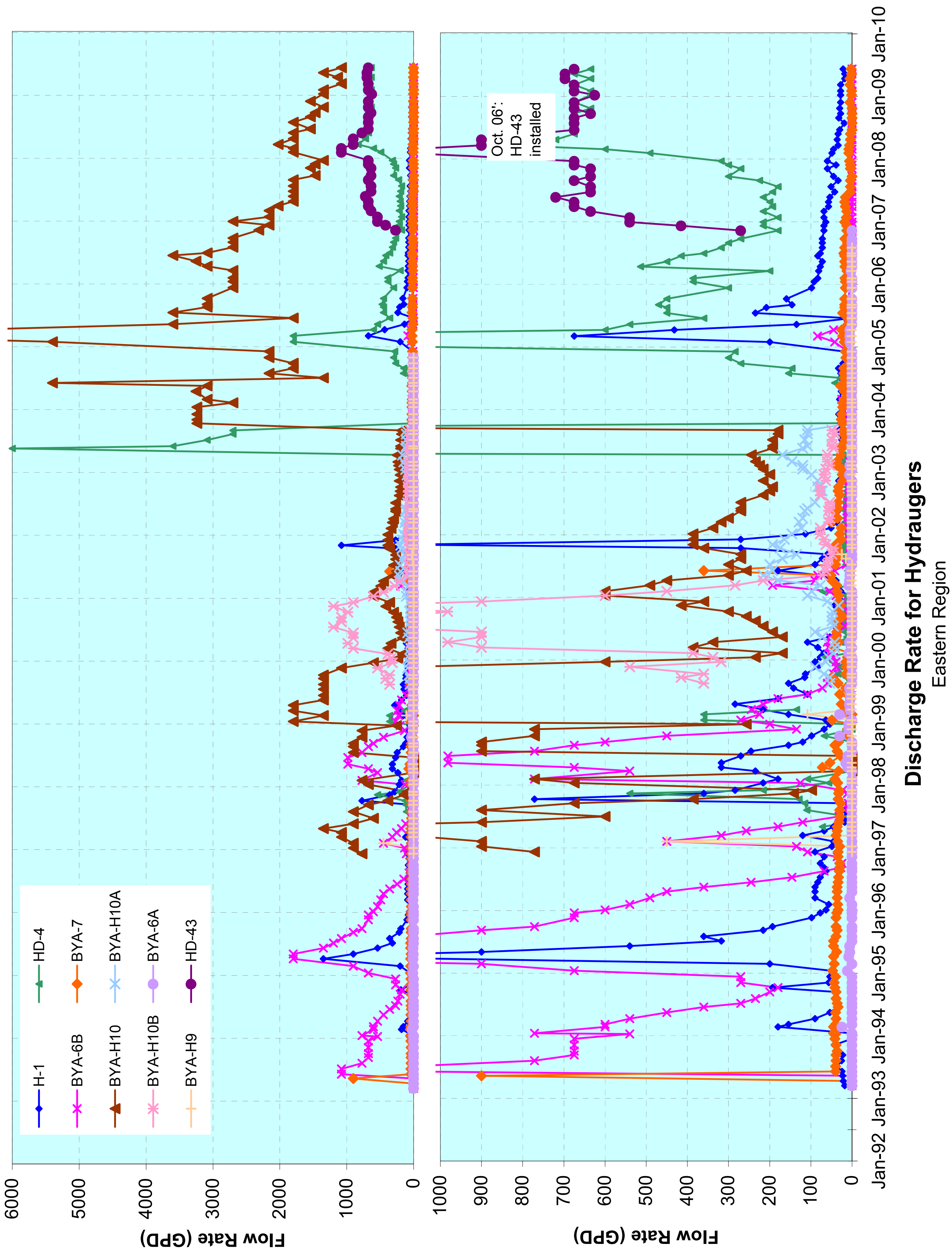

Discharge Rate for Hydraugers
Eastern Region
Flow Rate (GPD)
0
1000
2000
3000
4000
5000
6000
0
100
200
300
400
500
600
700
800
900
1000
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
H-1
HD-4
BYA-6B
BYA-7
BYA-H10
BYA-H10A
BYA-H10B
BYA-6A
BYA-H9
HD-43
Oct. 06':
HD-43
installed

PLATE C-2b

Big Rock Mesa Landslide Assessment District, City of Malibu
Project No. 3399.006

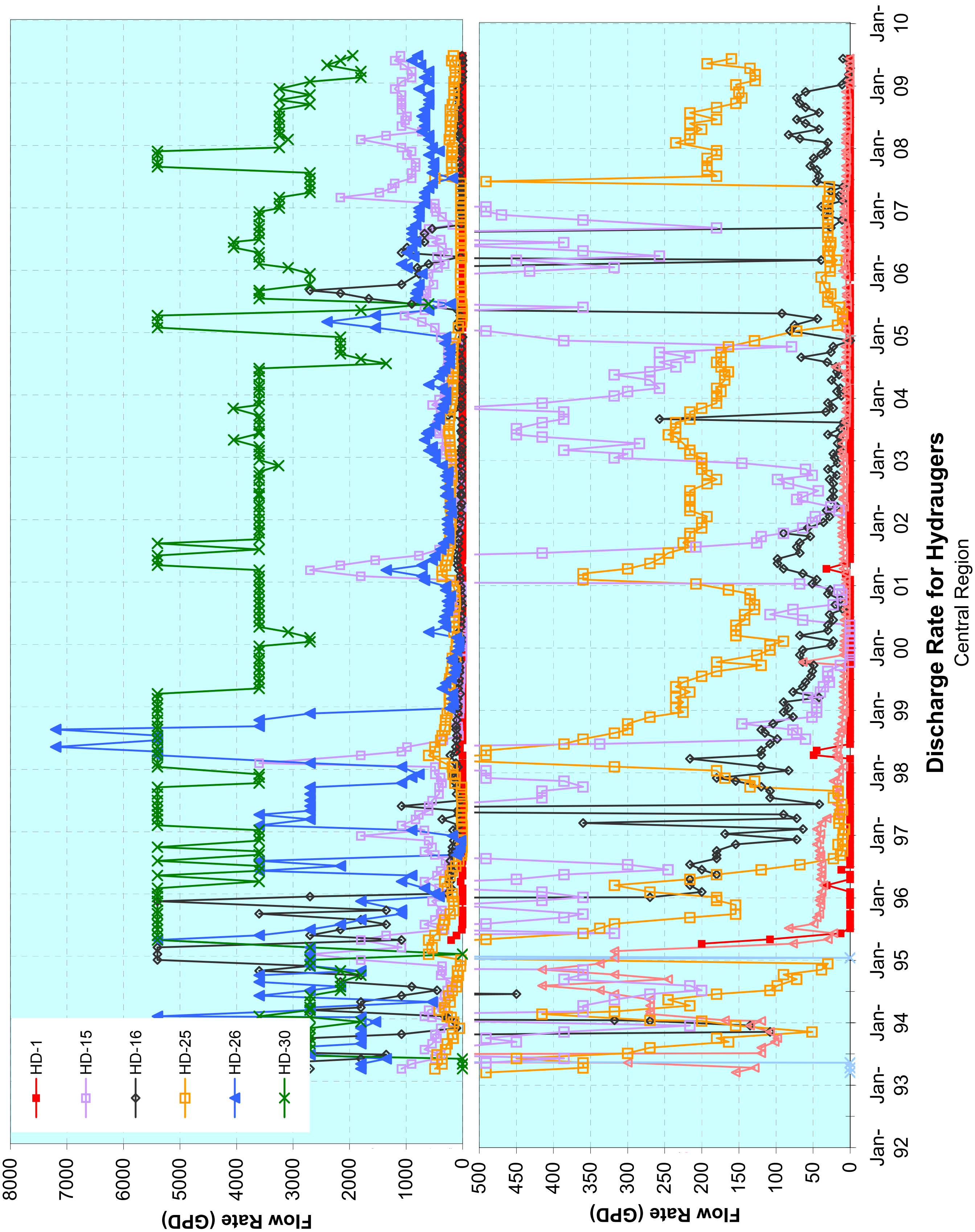


PLATE C-3a

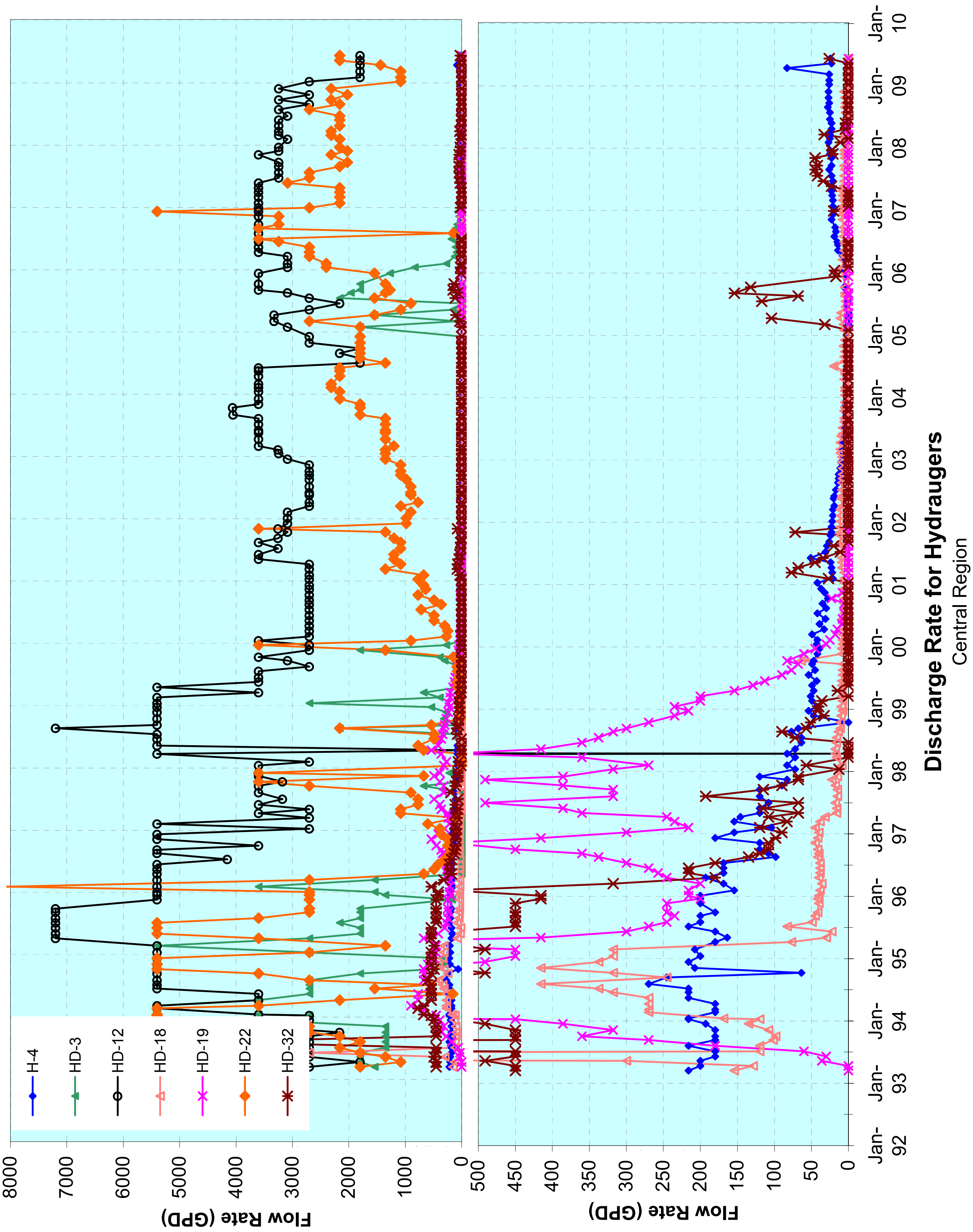
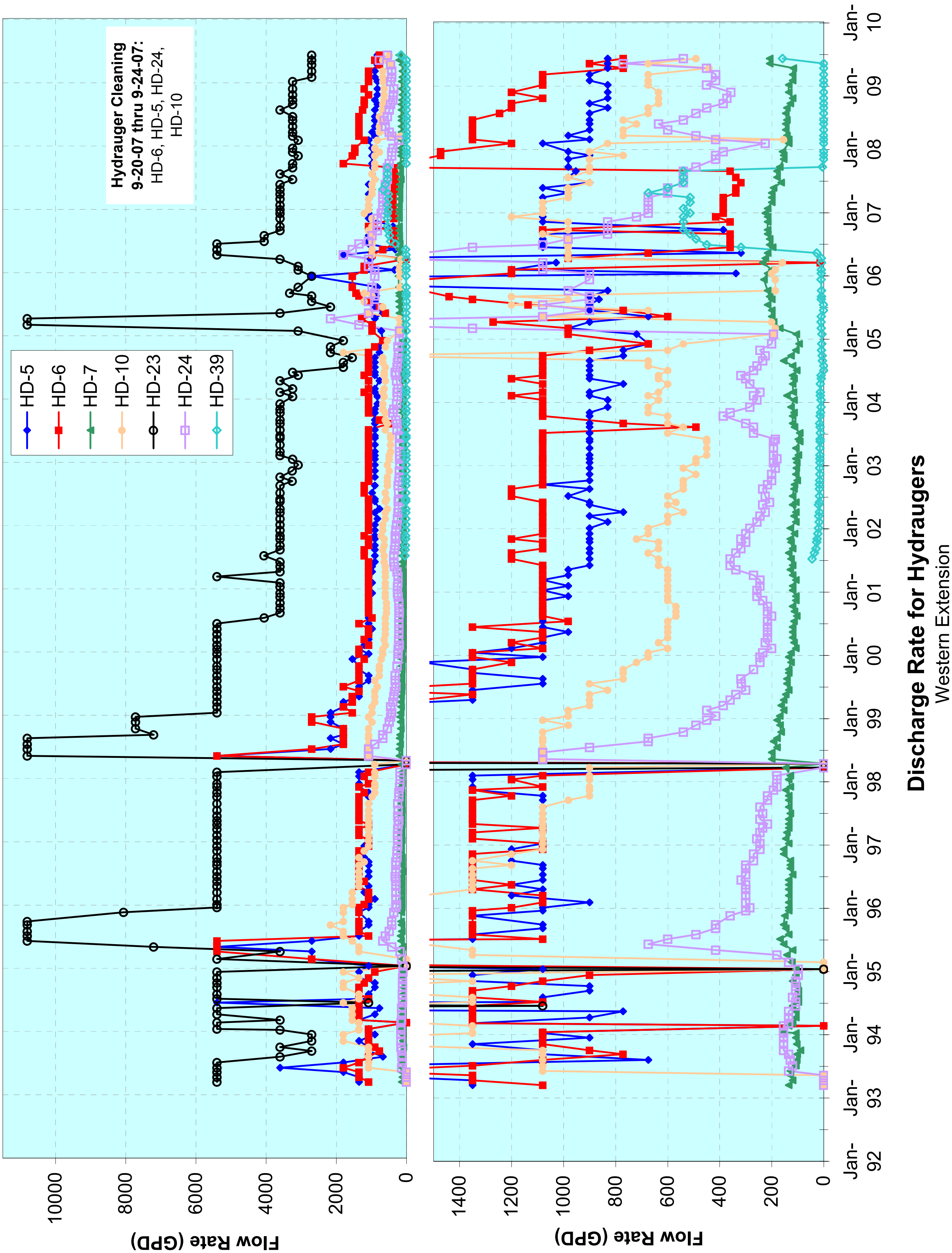

Discharge Rate for Hydraugers
Central Region
Flow Rate (GPD)
Flow Rate (GPD)
H-4
HD-3
HD-12
HD-18
HD-19
HD-22
HD-32
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10
0
1000
2000
3000
4000
5000
6000
7000
8000
0
50
100
150
200
250
300
350
400
450
500

PLATE C-3b


Discharge Rate for Hydraugers
Western Extension
Hydrauger Cleaning
9-20-07 thru 9-24-07:
HD-6, HD-5, HD-24, HD-10
HD-5
HD-6
HD-7
HD-10
HD-23
HD-24
HD-39
Flow Rate (GPD)
Flow Rate (GPD)
10000
8000
6000
4000
2000
0
1400
1200
1000
800
600
400
200
0
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
Jan-04
Jan-05
Jan-06
Jan-07
Jan-08
Jan-09
Jan-10

APPENDIX D
SLOPE INCLINOMETER PLOT/DATA

Big Rock Mesa: Slope Inclinometer Interpretation Summary

	PCH																	
	SP-1	SP-11	SP-12	SP-14	SP-15	SP-19	SP-27A	SP-29	SP-30	SP-2	SP-5	SP-5A	SP-6	SP-7	SP-8	SP-8A	SP-31	SP-37
Installation Details																		
Surface Elev.	NA	27	26	25	20	25	29	27	29	NA	NA	NA	NA	NA	NA	NA	NA	NA
Original Depth (ft)	43	59	95	32	88	95	100	140	155	32	98	146	102	Unknown	Unknown	106	140	336
Measured Depth (ft)	N/A	56	38	30	80	82	92	138	126	N/A	N/A	146	N/A	N/A	N/A	106	N/A	N/A
Casing Diameter	NA	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	NA	NA	2.75	NA	NA	NA	2.75	NA	NA
Casing Type		SI/cc	Alum/cc	SI/cc	Alum/cc	Alum/cc	Alum/cc	SI	SI									
Perforated interval	NA	-31 to -26	-14 to -9	-5 to 0	-62 to -57	-57 to -52	-65 to -60	-111 to -106	-99 to -94	NA	NA	bottom	NA	NA	NA	bottom	NA	NA
Backfill	NA	Sand	NA	NA	NA	NA	NA	NA	NA	NA	NA	Grout	NA	NA	NA	Grout	NA	NA
Installed By	KB	EVANS	EVANS	EVANS	EVANS	EVANS	EVANS	EVANS	EVANS	KB	CT	BYA	CT	CT	CT	BYA	EVANS	CT
Reading Interval	N.R.	Quart	Quart	Quart	Semi.	Semi.	Quart	Quart	Quart	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	Dest.	Dest.
Date 1st Base Reading	######	9/13/88	9/13/88	9/13/88	3/10/88	9/3/89	12/10/87	10/19/88										
Displacement Depth		0 to 25	23, 43		58	60	25-30	48-54	39									
A+ axis direction	NA	34	44	35	20	30	350	64	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Region	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH
Basal Surf. Penetrated		YES	NO	NO	NO	NO	YES	YES	YES									
Interpretation Movement (inches)																		
2008-2009	NA	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2007-2008	NA	--	--	--	--	--	0.05	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2006-2007	NA	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2005-2006	NA	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2004-2005	NA	0.09	0.03	--	0.03	0.01	0.04	0.04	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2003-2004	NA									NA	NA	NA	NA	NA	NA	NA	NA	NA
2002-2003	NA	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2001-2002	NA	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
2000-2001	NA	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
1999-2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1998-1999	NA	~0.1	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
1997-1998	NA	0.3	--	--	--	--	0.08	0.04	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
1996-1997	NA	<0.1	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
1995-1996	NA	0.08	<0.1	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
1994-1995	NA	0.1	0.08	--	--	--	0.15	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
1993-1994	NA									NA	NA	NA	NA	NA	NA	NA	NA	NA
1/1993-7/1993	NA	0.08	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/1992-12/1992	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1988-1991	NA	0.2	0.05	--	0.08	--	0.15	0.1	0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
1983-1984	2.28	3.4					1.4											

	BLUFF			EAST						CENTRAL										WESTERN				HEAD	
	SP-10	SP-28	SP-32	PC-1	SP-3	SP-3A	SP-33	BYA-5A	SP-18	SP-9A	SP-16A	SP-17	SP-17A	SP-24	SP-34	SP-35	SP-36	SP-4	SP-16	SP-20	SP-21	SP-22	SP-23	SP-26	SP-38
Installation Details																									
Surface Elev.	295	270	233	250	212	203	318	NA	NA	365	285	540	540	370	270	345	380	NA	285	430	660	780	860	745	NA
Original Depth (ft)	330	365	360	160	240	295	375	300	78	378	390	192	325	390	360	360	200	245	380	330	380	335	390	350	Unknown
Measured Depth (ft)	332	250	350	158	132	244	374	186	N/A	298	392	190	238	384	380	394	254	96	240	322	280	330	396	342	N/A
Casing Diameter	2.75	2.75	2.75	2.75	2.75	2.75	2.75	NA	NA	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	NA	NA	3.5	2.75	2.75	3.5	3.5	NA
Casing Type	Alum/cc	Alum	lum/cc/mo	SI/1.5"	Alum/cc	Alum/cc	lum/cc/mod			Alum	Alum/cc	SI/cc	SI	Alum	SI	SI	SI			Alum/3.5"/c	Alum/cc	Alum	Alum/3.5"	Alum/3.5"	
Perforated interval	-37 to -32	-88 to -83	-121 to -116	92 to 97	80 to 85	-43 to -38	-56 to -51	na	na	65 to 70	-107 to 102	348 to 353	302 to 307	NA	-112 to -107	-51 to -46	126 to 131	NA	45 to 50	104 to 204	380 to 385	448 to 453	462 to 562	NA	NA
Backfill	NA	NA	NA	Grout	Sand	Sand	NA	NA	NA	NA	NA	NA	Grout	NA	Grout	Grout	Grout	NA	NA	Filter	NA	NA	NA	Sand	NA
Installed By	EVANS	EVANS	EVANS	BYA	EVANS	EVANS	EVANS	BYA	LS	EVANS	EVANS	EVANS	BYA	CONV	BYA	BYA	BYA	EVANS	EVANS	CONV	EVANS	CONV	CONV	CONV	EVANS
Reading Interval	Quart	N.R.	Quart	Quart	Semi.	Quart	Quart	Dest.	Dest.	Semi.	Semi.	Quart	Quart	Semi.	Quart	Quart	Quart	N.R.	N.R.	Semi.	Semi.	Semi.	Semi.	Quart	Dest.
Date 1st Base Reading	11/5/87	9/8/88	9/7/88	6/8/95	9/7/88		6/3/87			3/10/88	3/10/88		2/10/89	9/8/88	2/19/99	11/24/98	11/20/98	######		11/5/87	7/2/87	7/2/87	9/8/88	9/13/88	
Displacement Depth	>330	245	162,250	143, 50	2, 170, 2	247, 200	210, 50			305	380	184	196						251					45	
A+ axis direction	39	204	18	190	32	60	20	NA	NA	340	330	10	60	326	210	184	164	NA	NA	1	300	345	5	45	NA
Region	BLUFF	BLUFF	BLUFF	EAST	EAST	EAST	EAST	EAST	EAST	CENT.	CENT.	CENT.	CENT.	CENT.	CENT.	CENT.	CENT.	CENT.	CENT.	WEST.	WEST.	WEST.	WEST.	HEAD	HEAD
Basal Surf. Penetrated	NO	NO	YES	YES	NO	NO	YES			NO	NO	NO	YES	YES	YES	YES				NO	NO	NO	NO	YES	
Interpretation Movement (inches)																									
2008-2009	--	--	--	--	--	--	--	NA	NA	--	--	--	--	--	--	--	--	NA	NA	--	--	--	--	--	NA
2007-2008	--	--	--	--	--	--	--	NA	NA	--	--	--	--	--	--	--	--	NA	NA	--	--	--	--	--	NA
2006-2007	--	--	--	--	--	--	--	NA	NA	--	--	--	--	--	--	--	--	NA	NA	--	--	--	--	--	NA
2005-2006	--	NA	--	--	--	--	--	NA	NA	--	--	--	0.1	--	--	--	--	NA	NA	--	--	--	--	0.22	NA
2004-2005	--	0.05	0.02	--	--	0.10	0.06	NA	NA	?	0.06	0.09	0.09	0.15	--	--	--	NA	NA	--	--	--	--	0.35	NA
2003-2004								NA	NA									NA	NA						NA
2002-2003	--	--	--	--	--	--	--	NA	NA	--	--	--	--	--	--	--	--	NA	NA	--	--	--	--	--	NA
2001-2002	--	--	--	--	--	--	--	NA	NA	--	--	--	--	--	--	--	--	NA	NA	--	--	--	--	--	NA
2000-2001	--	0.02-0.04	--	--	--	--	~0.05*	NA	NA	--	--	--	0.02-0.04*	--	--	--	--	NA	NA	--	--	--	--	0.2	NA
1999-2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	NA	NA
1998-1999	--	--	--	<0.5	--	--	--	NA	NA	--	--	--	--	--	--	--	--	NA	NA	--	--	--	--	1.9	NA
1997-1998	--	--	--	0.08	--	0.02	0.08	NA	NA	--	--	--	0.03	--				NA	NA	--	--	--	--	1	NA
1996-1997	--	--	--	<0.1	--	0.5	--	NA	NA	--	--	--	--	--				NA	NA	--	--	--	--	0.7	NA
1995-1996	--	--	--	0.07	--	--	--	NA	NA	--	--	--	0.04	--				NA	NA	--	--	--	--	3.5	NA
1994-1995	--	--	--	0.04, 0.05	--	--	0.1, 0.2	NA	NA	--	--	--	--	--				NA	NA	--	--	--	--	5	NA
1993-1994								NA	NA									NA	NA						NA
1/1993-7/1993	--	--	--		--	0.2	--	NA	NA	--	--	--	--	--				NA	NA	--	--	--	--	1.1	NA
7/1992-12/1992	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA	NA	NA	NA
1988-1991	--	--	--		--	0.3	0.05	NA	NA	--	--	--	--	0.1				NA	NA	--	--	--	--	0.3	NA
1983-1984					8.4							4.8						4.7							

N.R.	Not Read	--	No quanitifiable measurement
Semi	Semi-Annually	NA	Data not available
Dest.	Destroyed		
Quart	Quarterly		

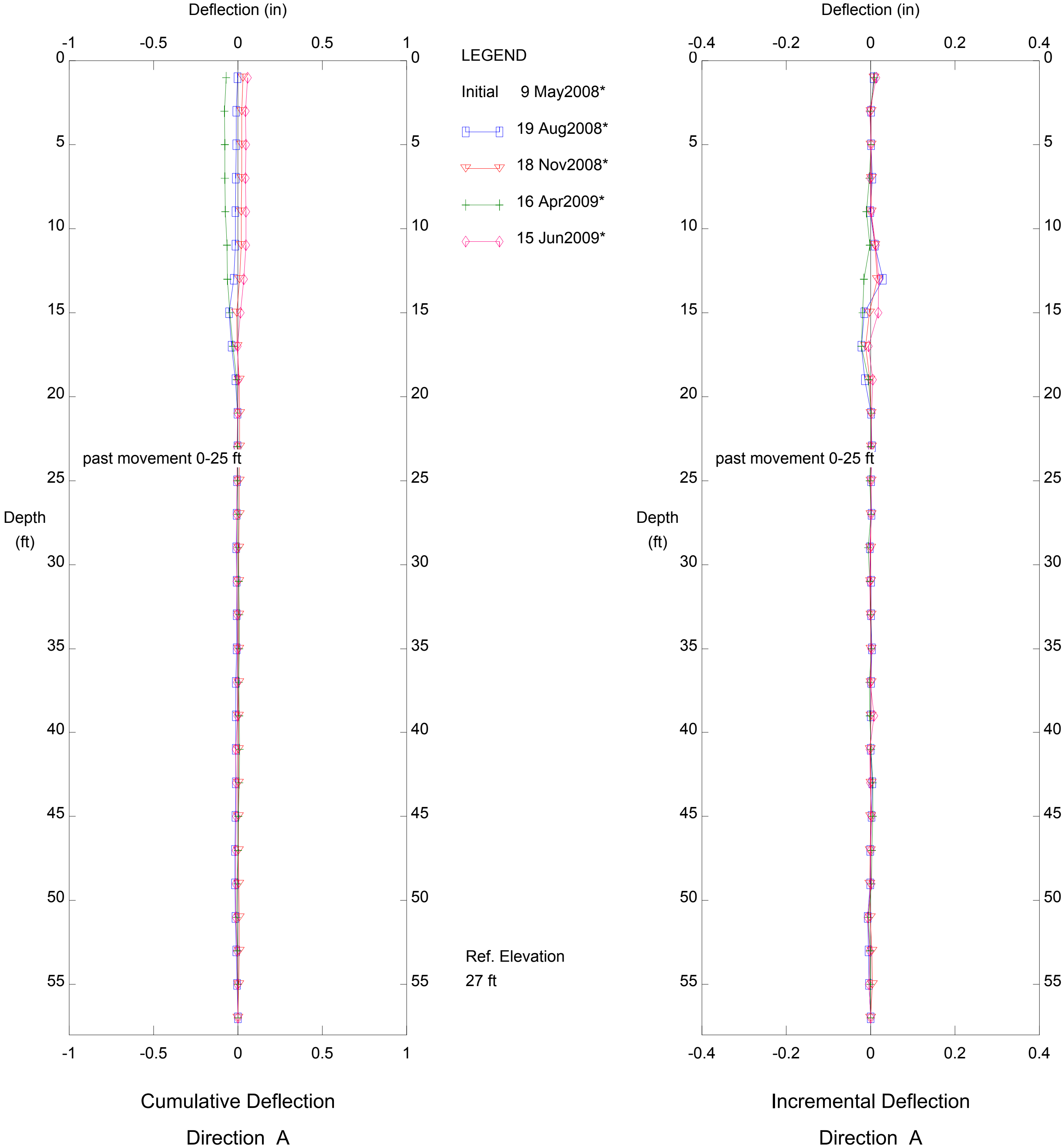
Installation Designations:

KB	Kovacs-Byer, Inc.	GS	GeoSoils
EVANS	D.A. Evans	BYA	Bing Yen & Associates
CT	Caltrans	LS	Lockwood-Singh
CONV	Converse Consultants		

-- Shaded Blue to indicate inclinometer does NOT penetrate the basal rupture

-- Shaded yellow to indicated inclinometer does penetrate basal rupture

Fugro West, Inc. - Ventura, CA



BRM, Inclinometer SP-11

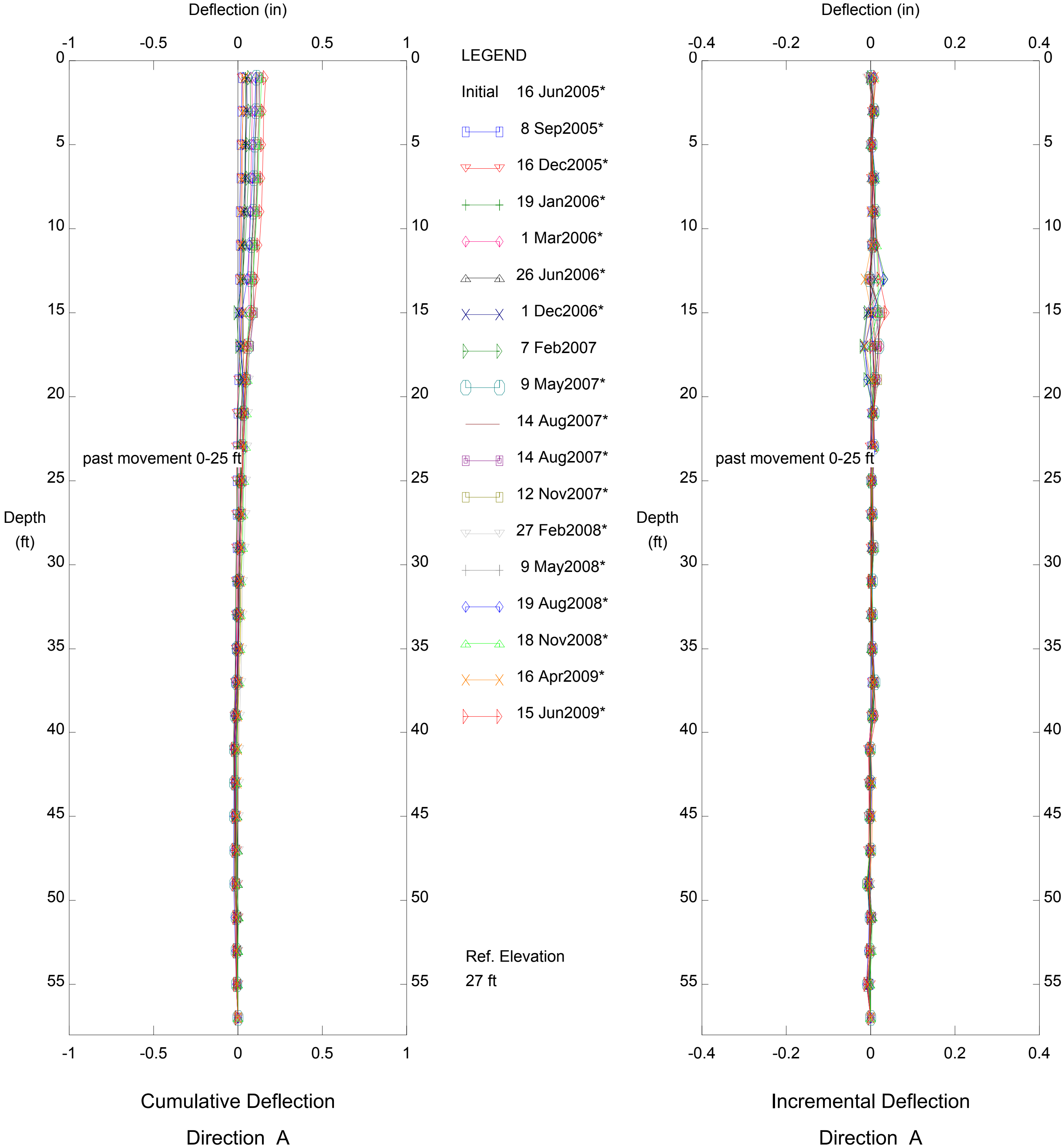
PCH REGION

A+ Azimuth = 34

Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP11.GTL

Fugro West, Inc. - Ventura, CA



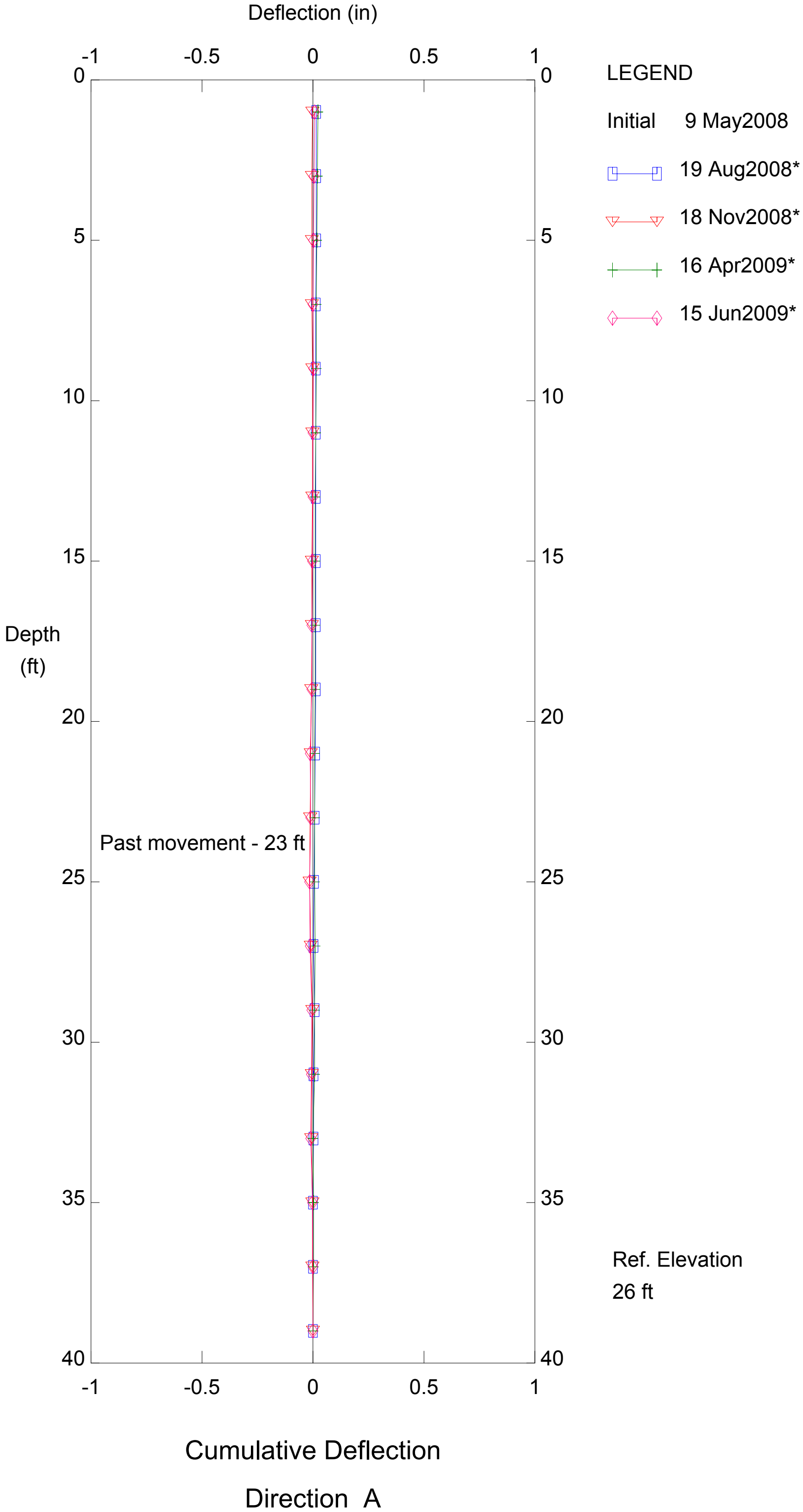
BRM, Inclinometer SP-11

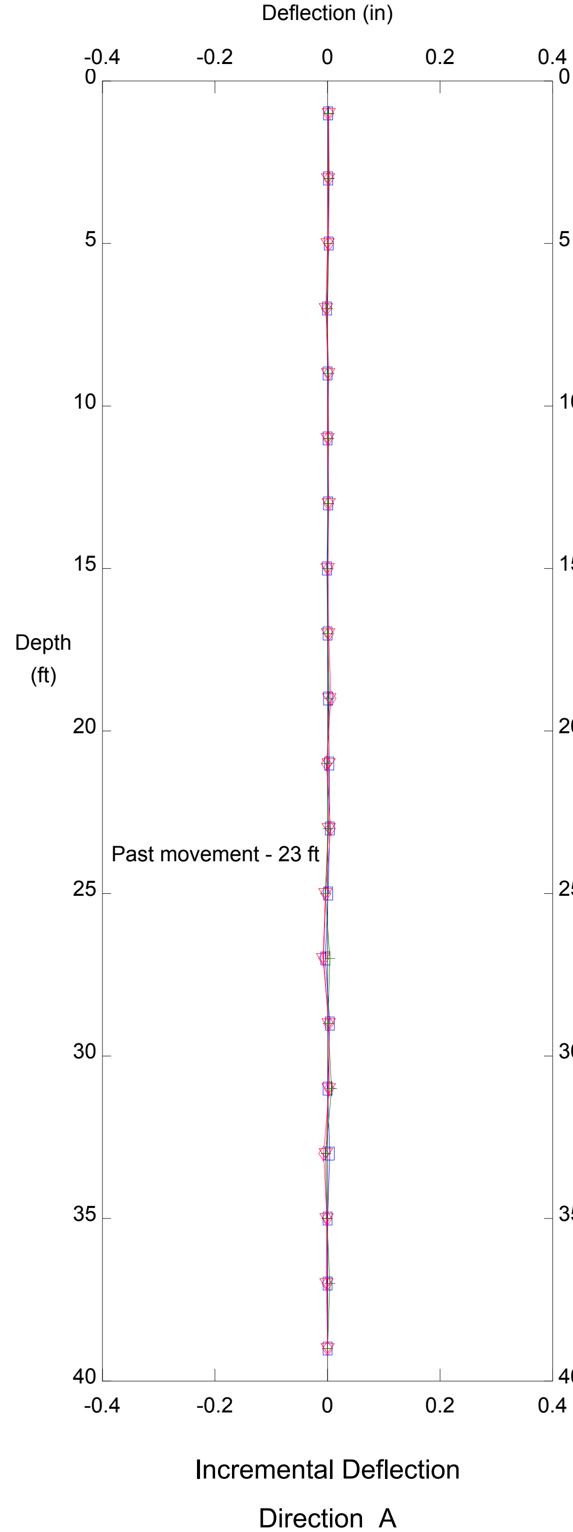
PCH REGION

A+ Azimuth = 34

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA





BRM, Inclinometer SP-12

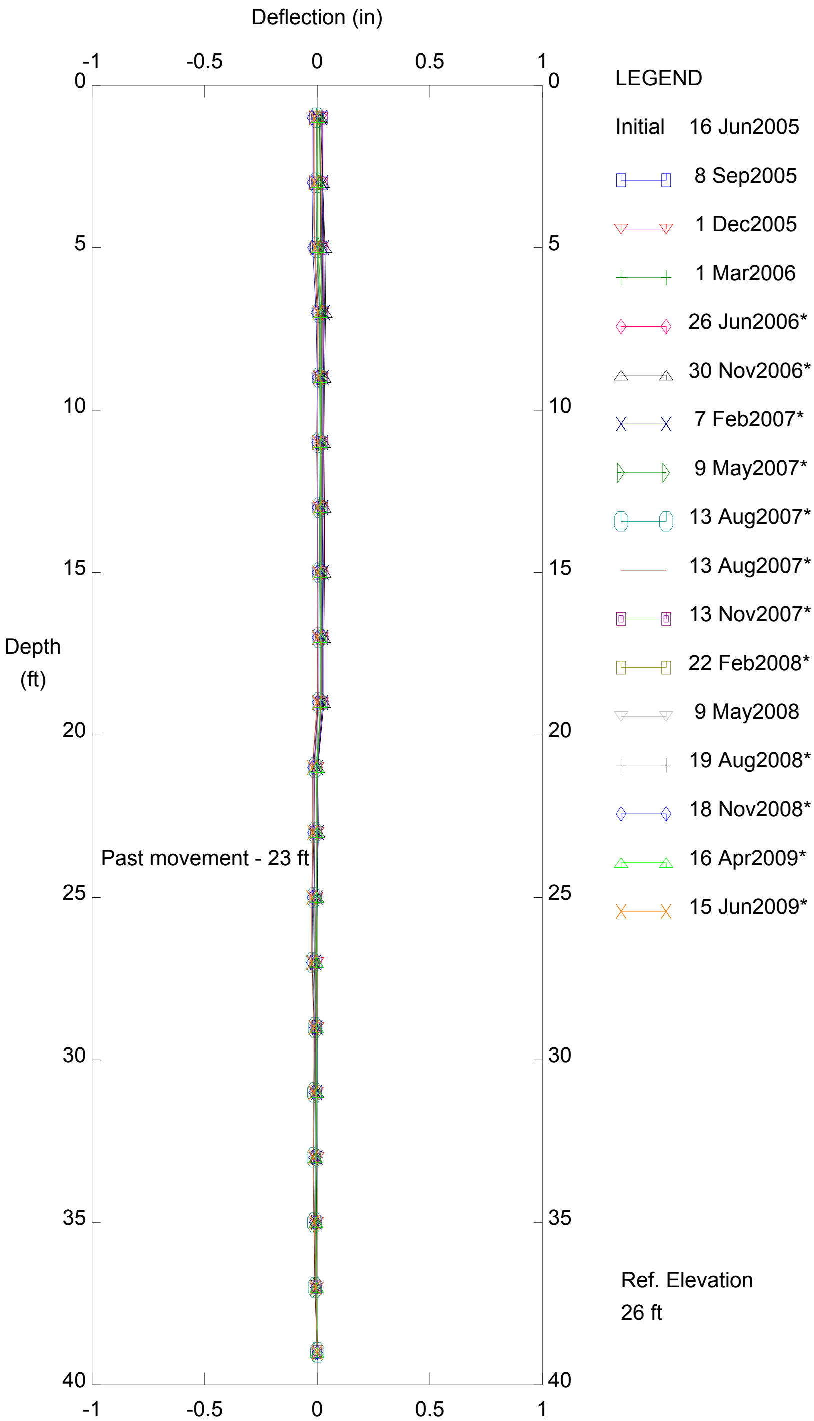
PCH REGION

A+ Azimuth = 44

Sets marked * include zero shift and/or rotation corrections.

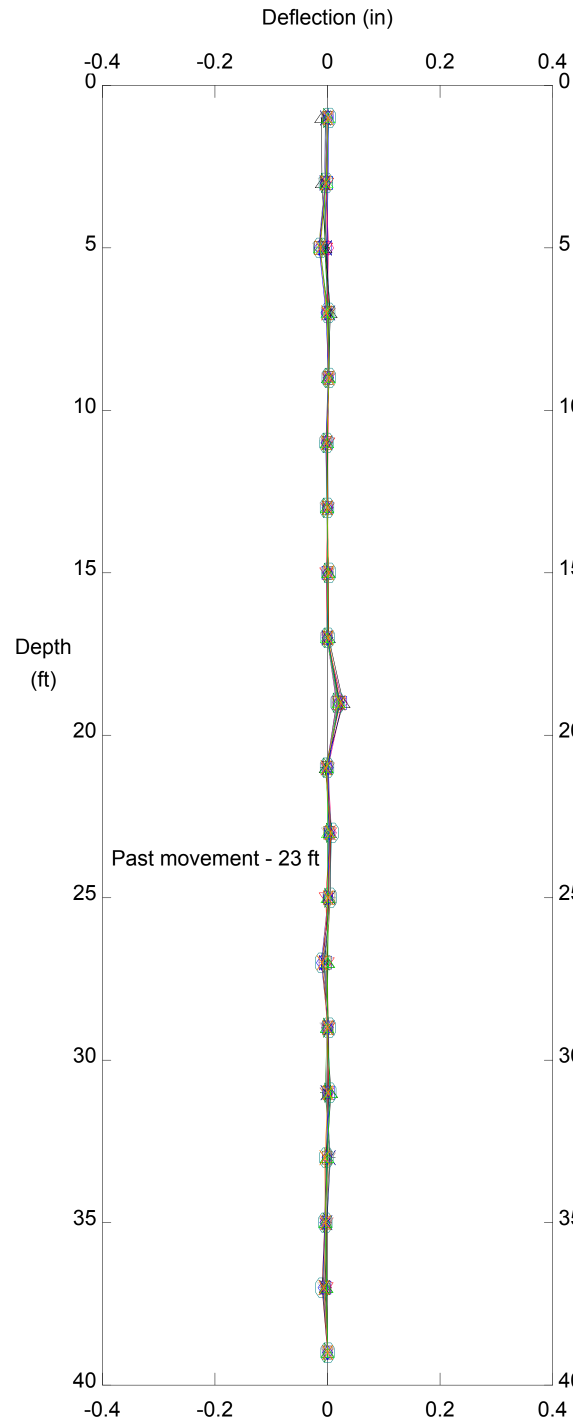
O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP12.GTL

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

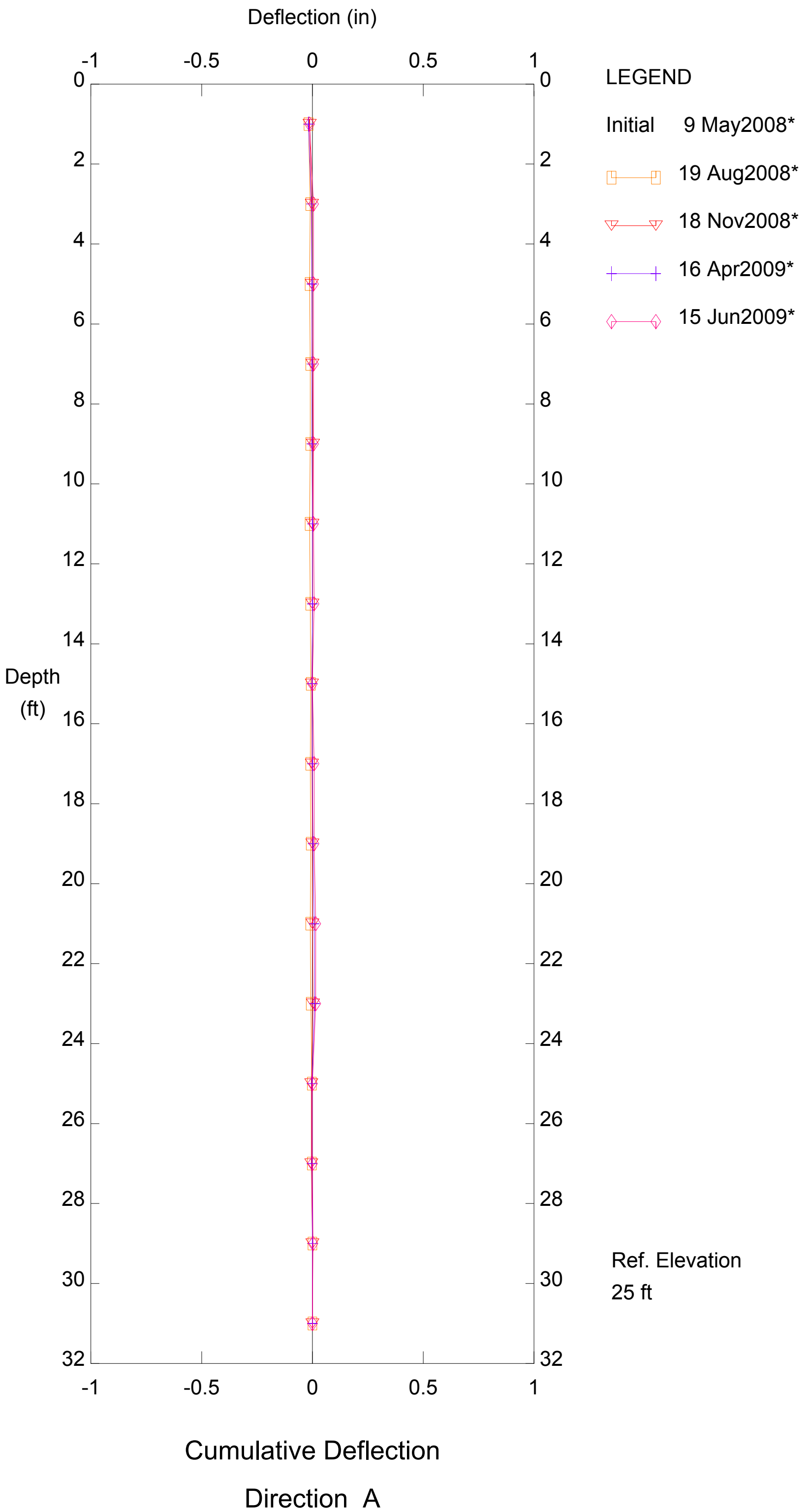
BRM, Inclinometer SP-12

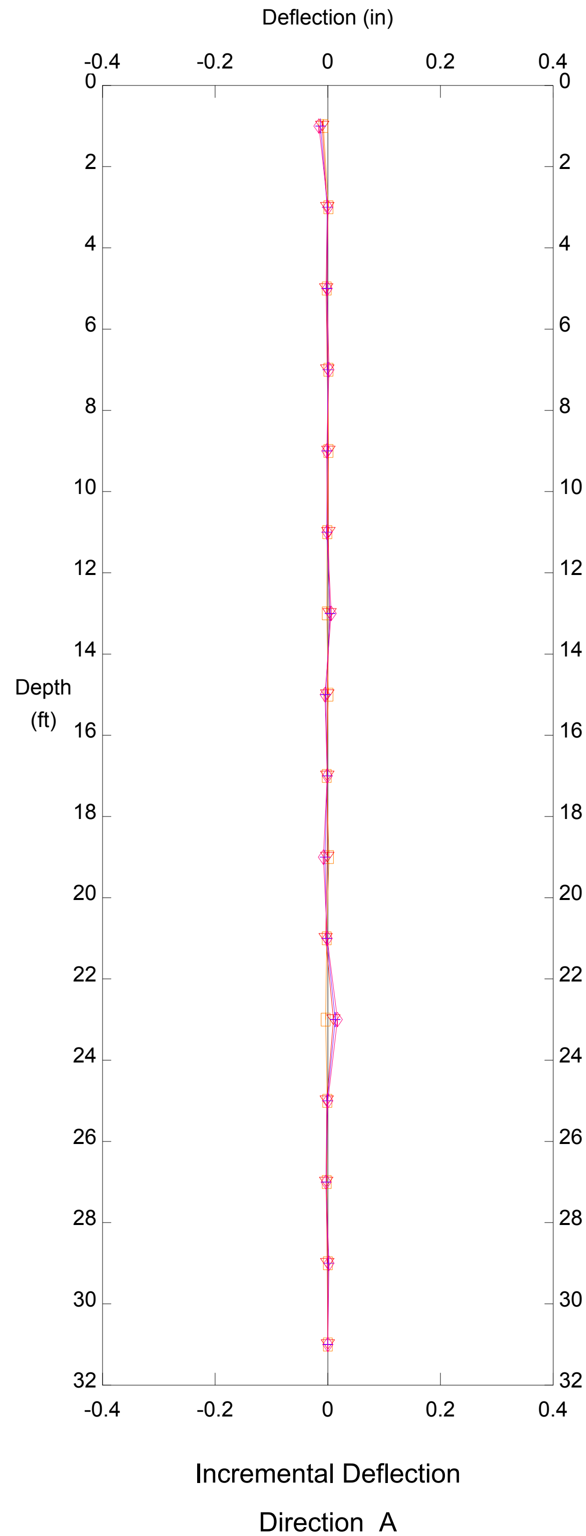
PCH REGION

A+ Azimuth = 44

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA





BRM, Inclinometer SP14

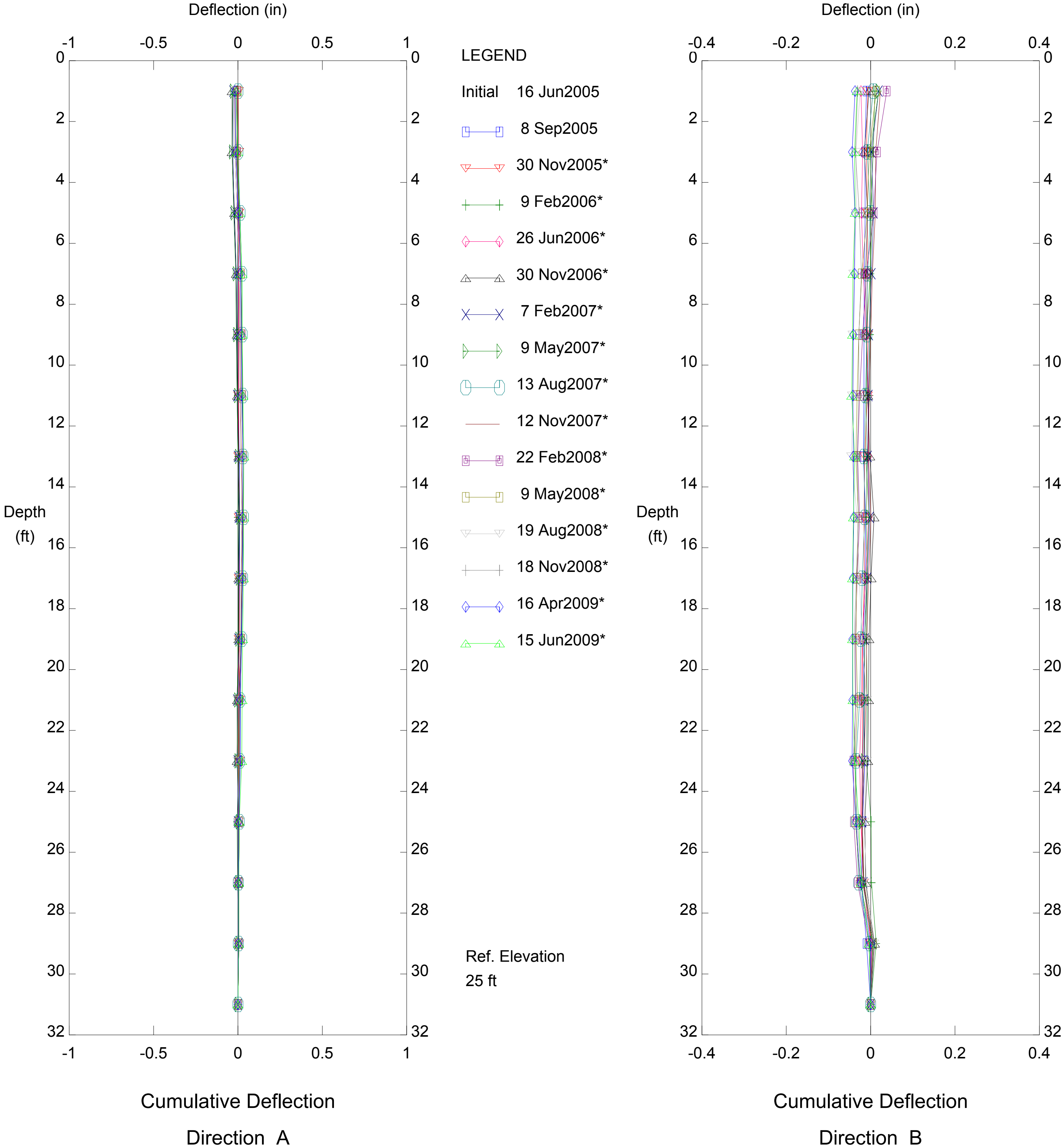
PCH REGION

A+ Azimuth = 35

Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP14.GTL

Fugro West, Inc. - Ventura, CA



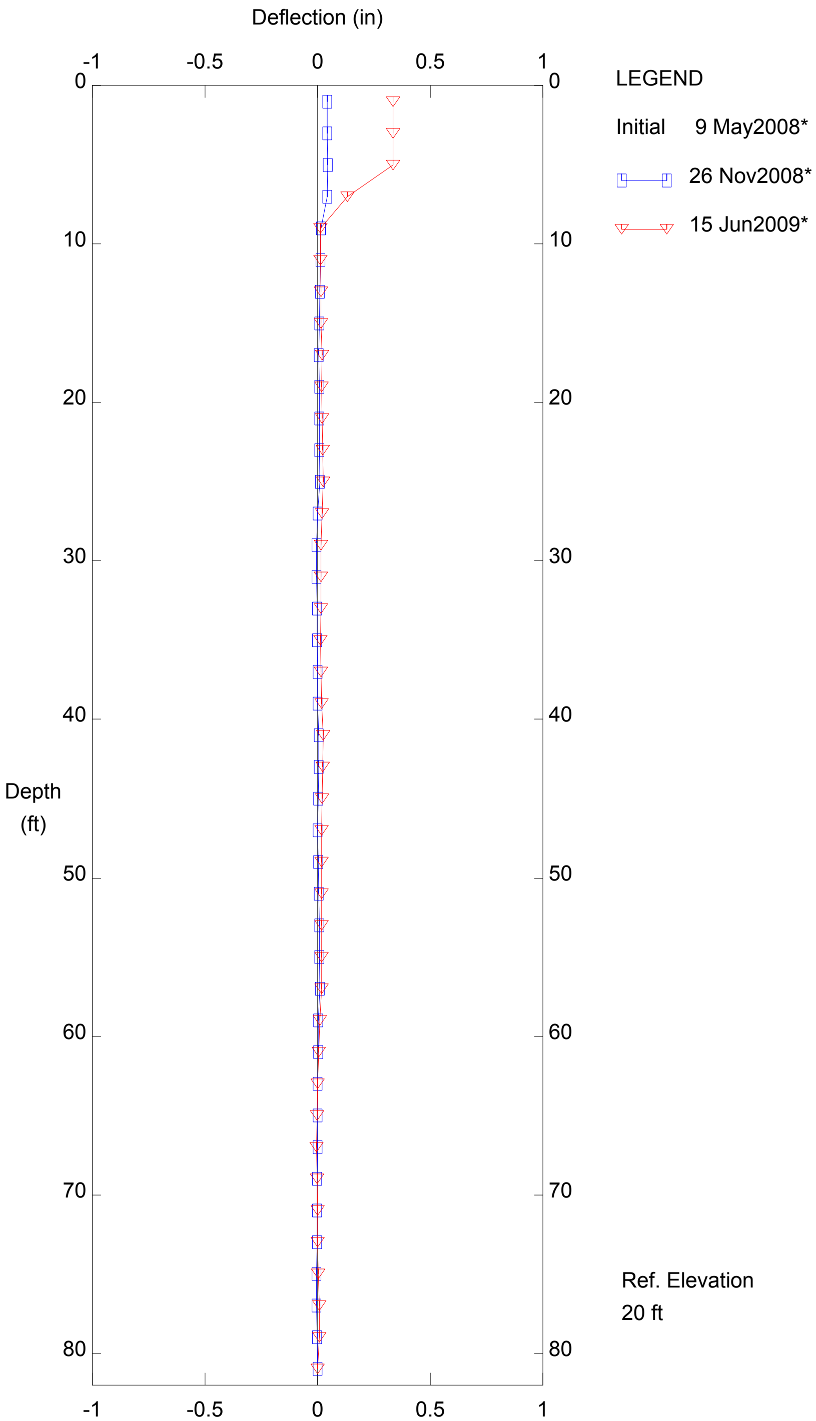
BRM, Inclinometer SP14

PCH REGION

A+ Azimuth = 35

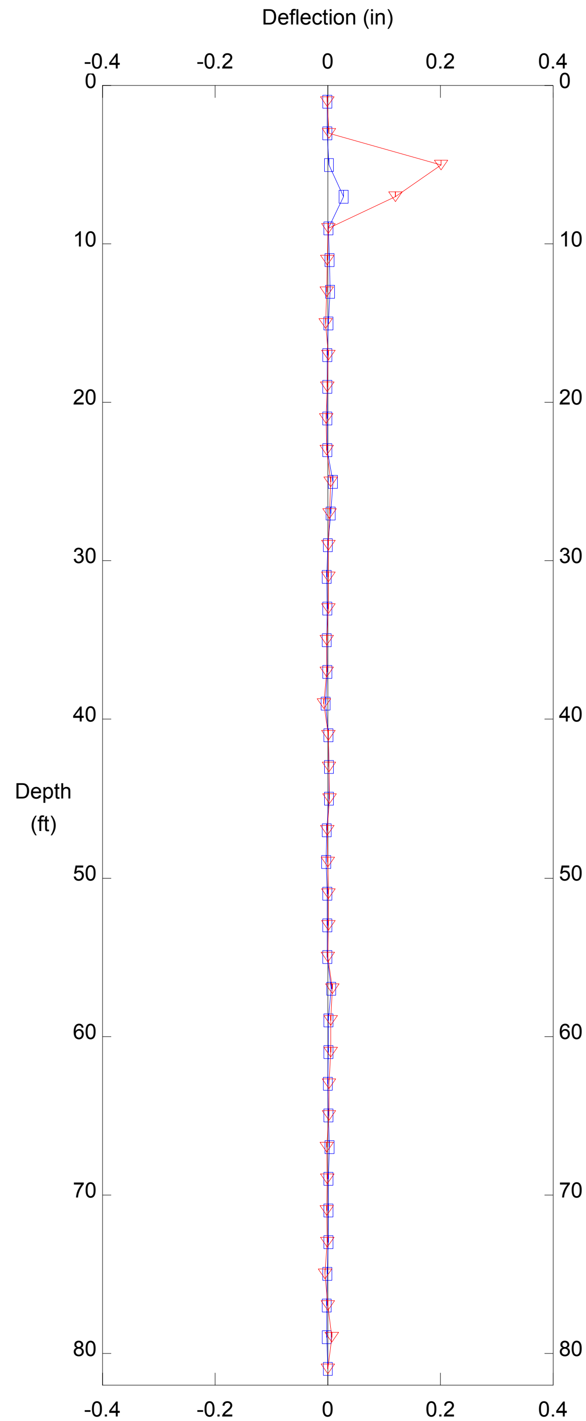
Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

BRM, Inclinometer SP15

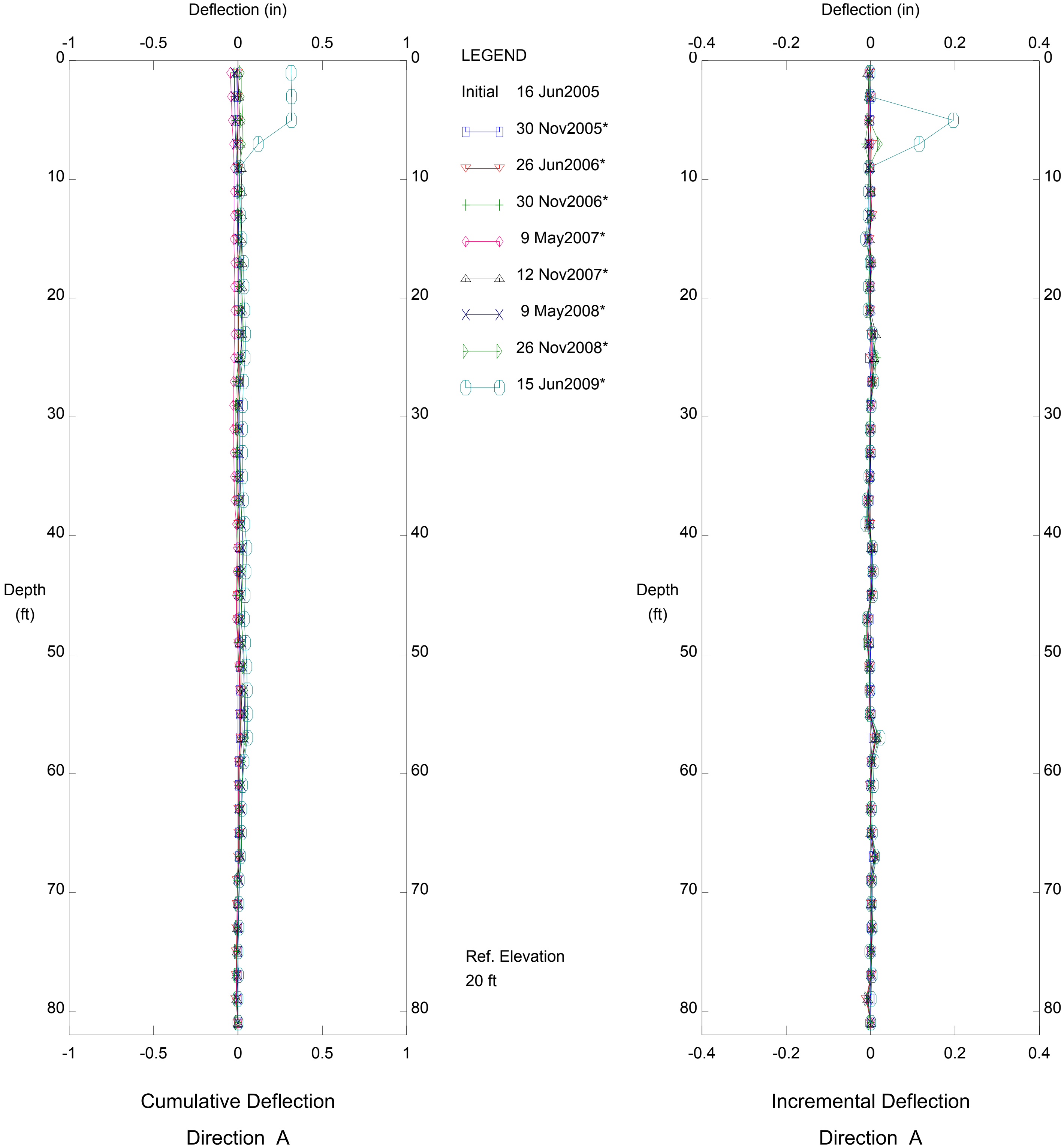
PCH REGION

A+ Azimuth = 20

Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP15.GTL

Fugro West, Inc. - Ventura, CA



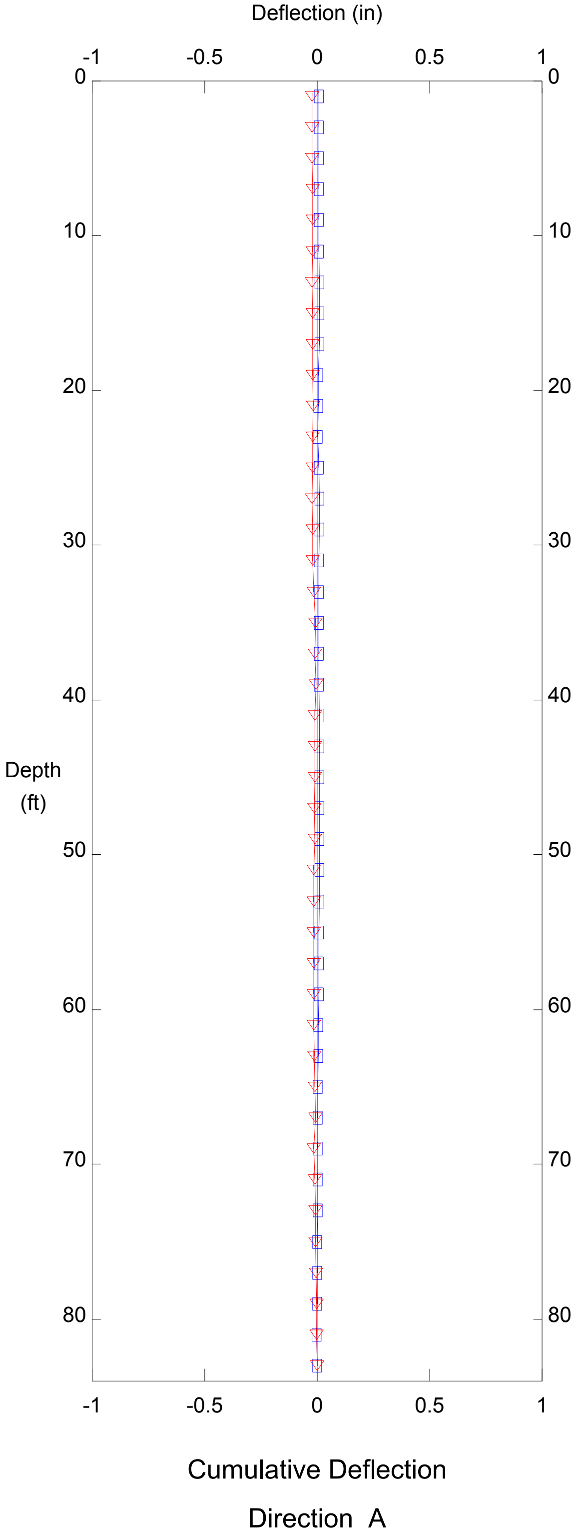
BRM, Inclinometer SP15

PCH REGION

A+ Azimuth = 20

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



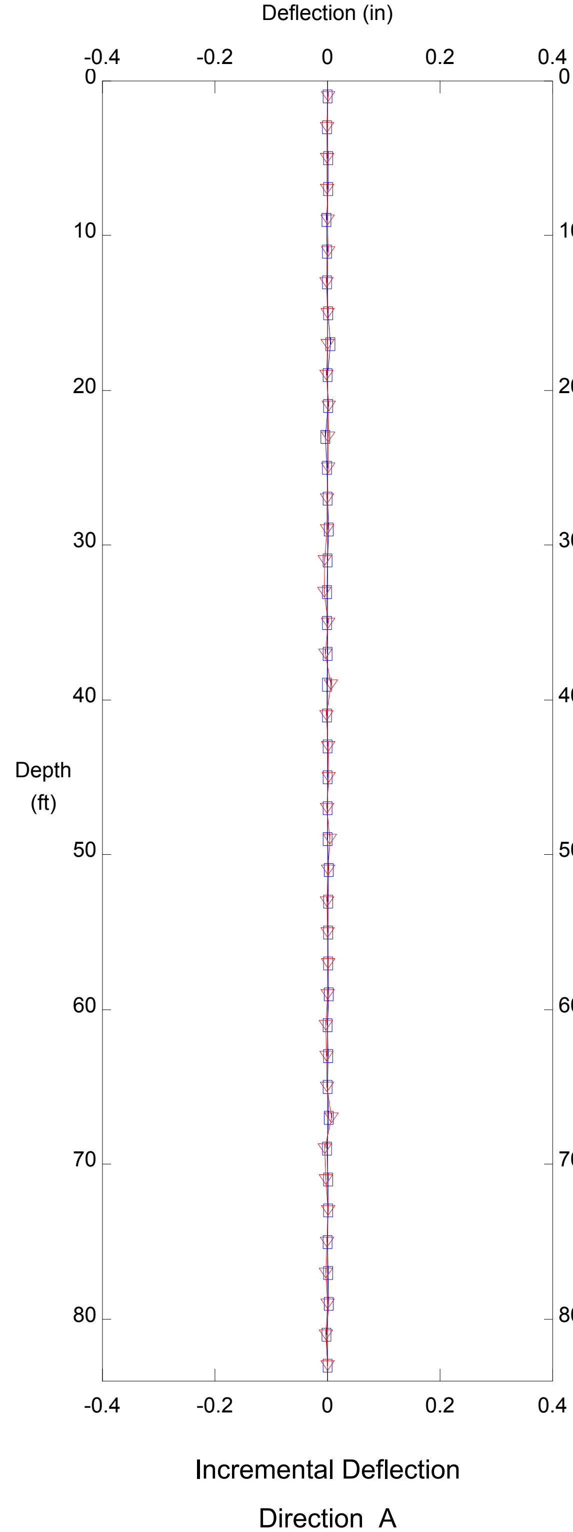
LEGEND

Initial 14 May2008*

18 Nov2008*

15 Jun2009*

Ref. Elevation
25 ft



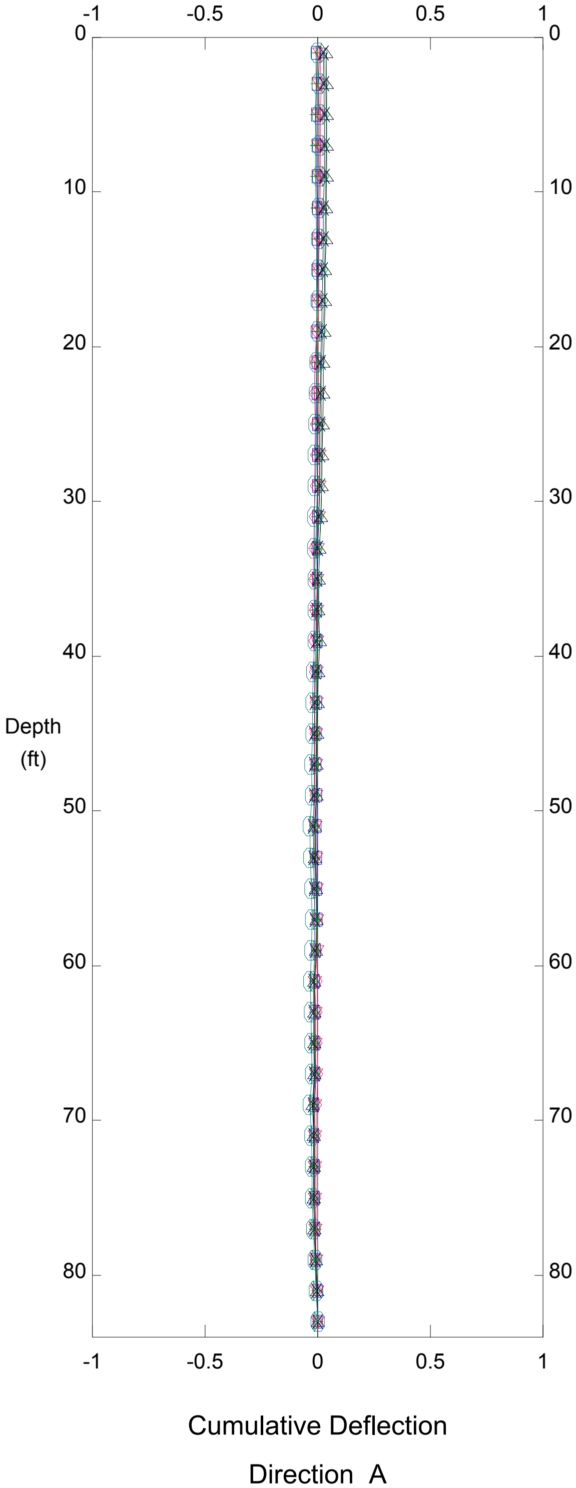
BRM, Inclinometer SP19

PCH REGION

A+ Azimuth = 30

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



LEGEND

Initial 16 Jun2005*

1 Dec2005*

26 Jun2006

1 Dec2006*

11 May2007

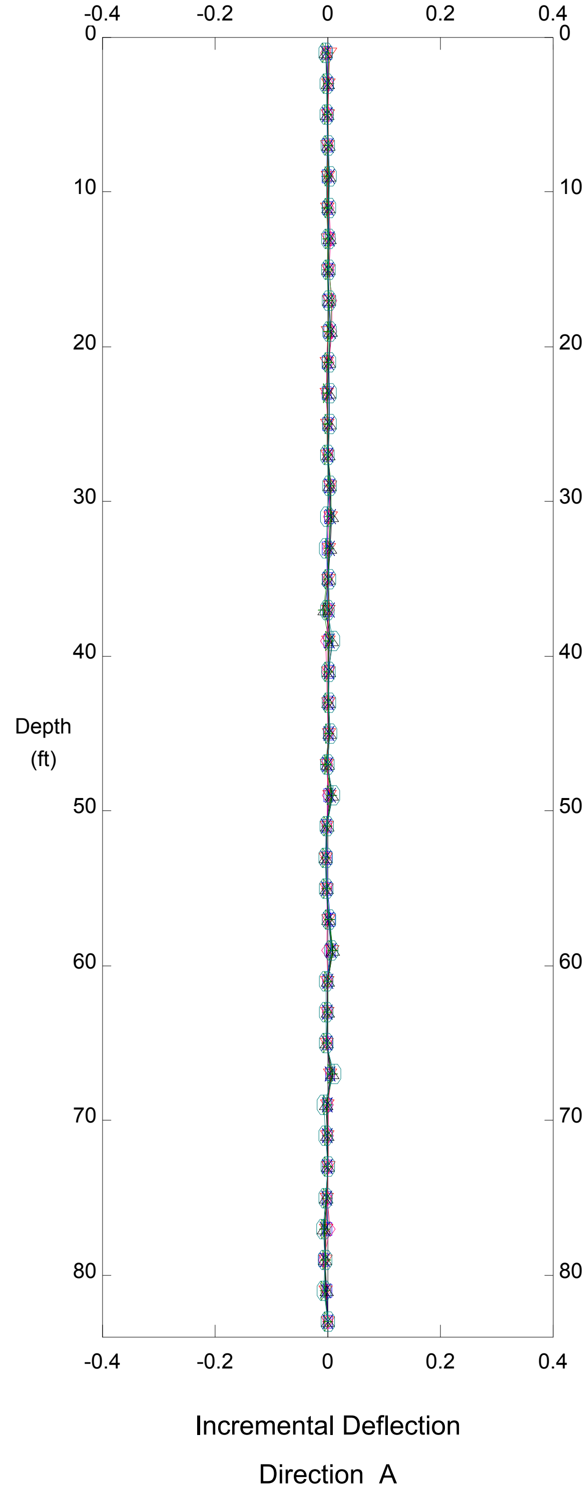
12 Nov2007

14 May2008*

18 Nov2008*

15 Jun2009*

Ref. Elevation
25 ft



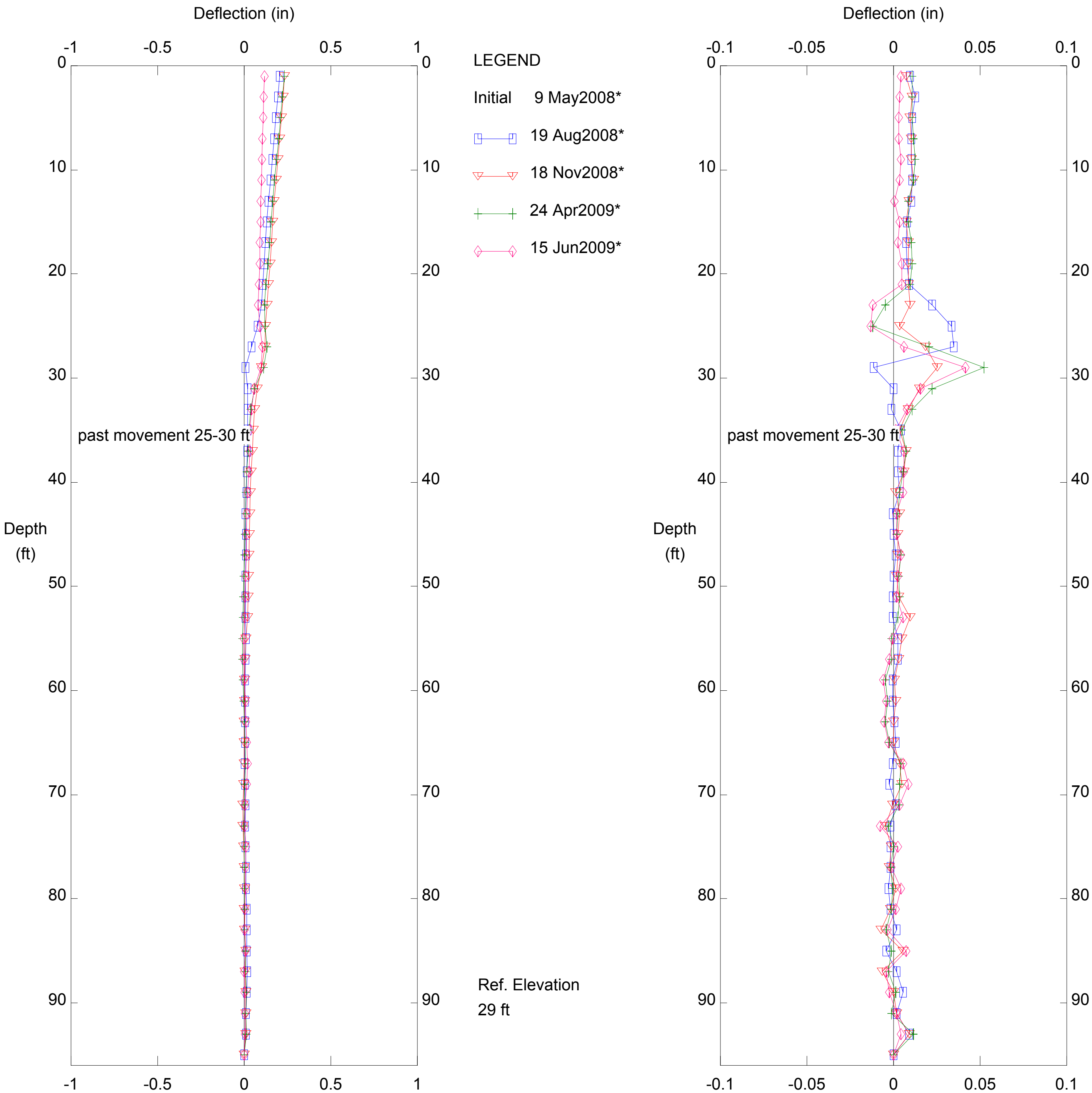
BRM, Inclinometer SP19

PCH REGION

A+ Azimuth = 30

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection
Direction A

Incremental Deflection
Direction A

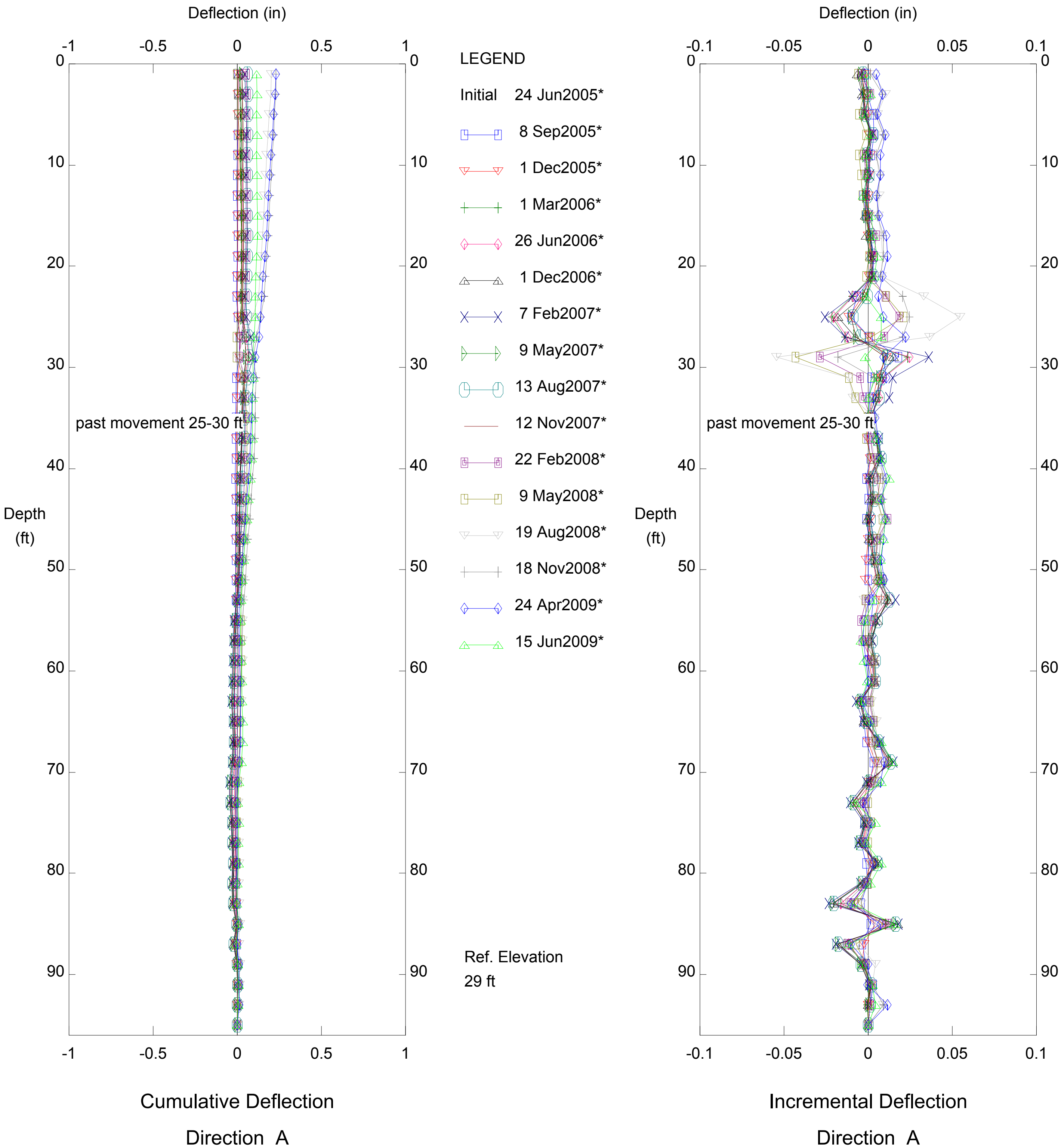
BRM, Inclinometer SP27A

PCH REGION

A+ Azimuth = 350

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



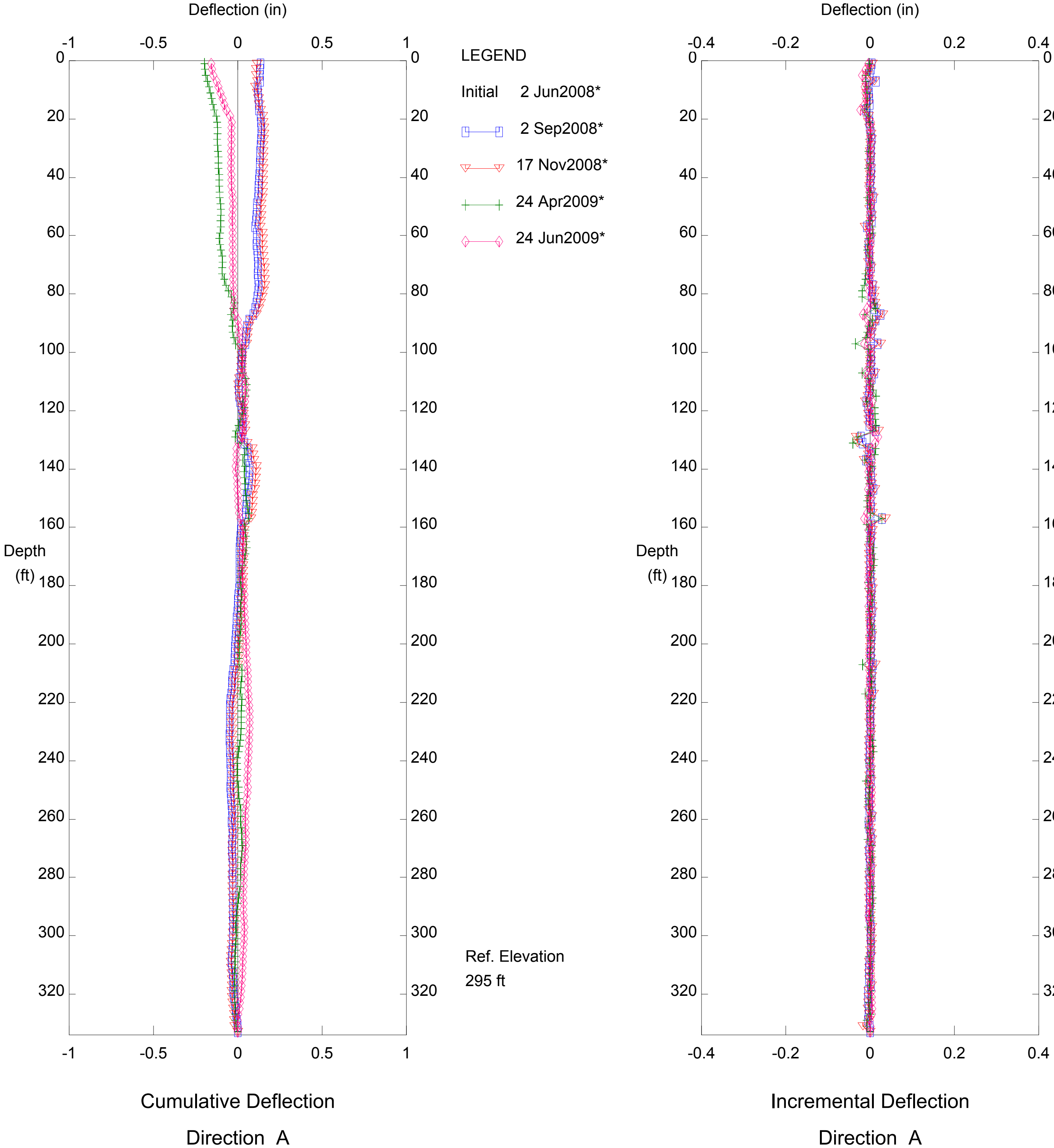
BRM, Inclinometer SP27A

PCH REGION

A+ Azimuth = 350

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



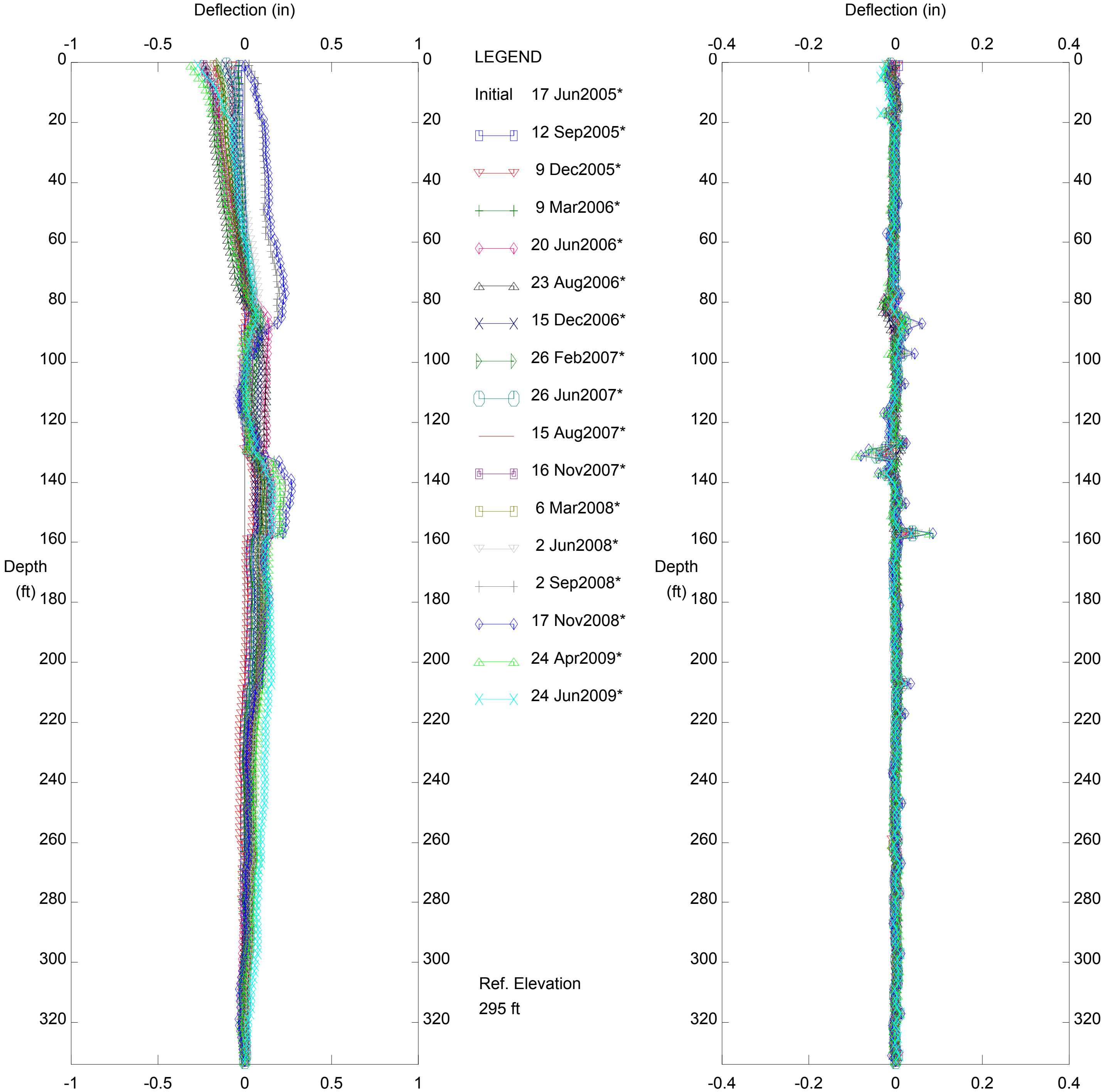
BRM, Inclinometer SP-10

BLUFF REGION

A+ Azimuth = 39

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A

Incremental Deflection

Direction A

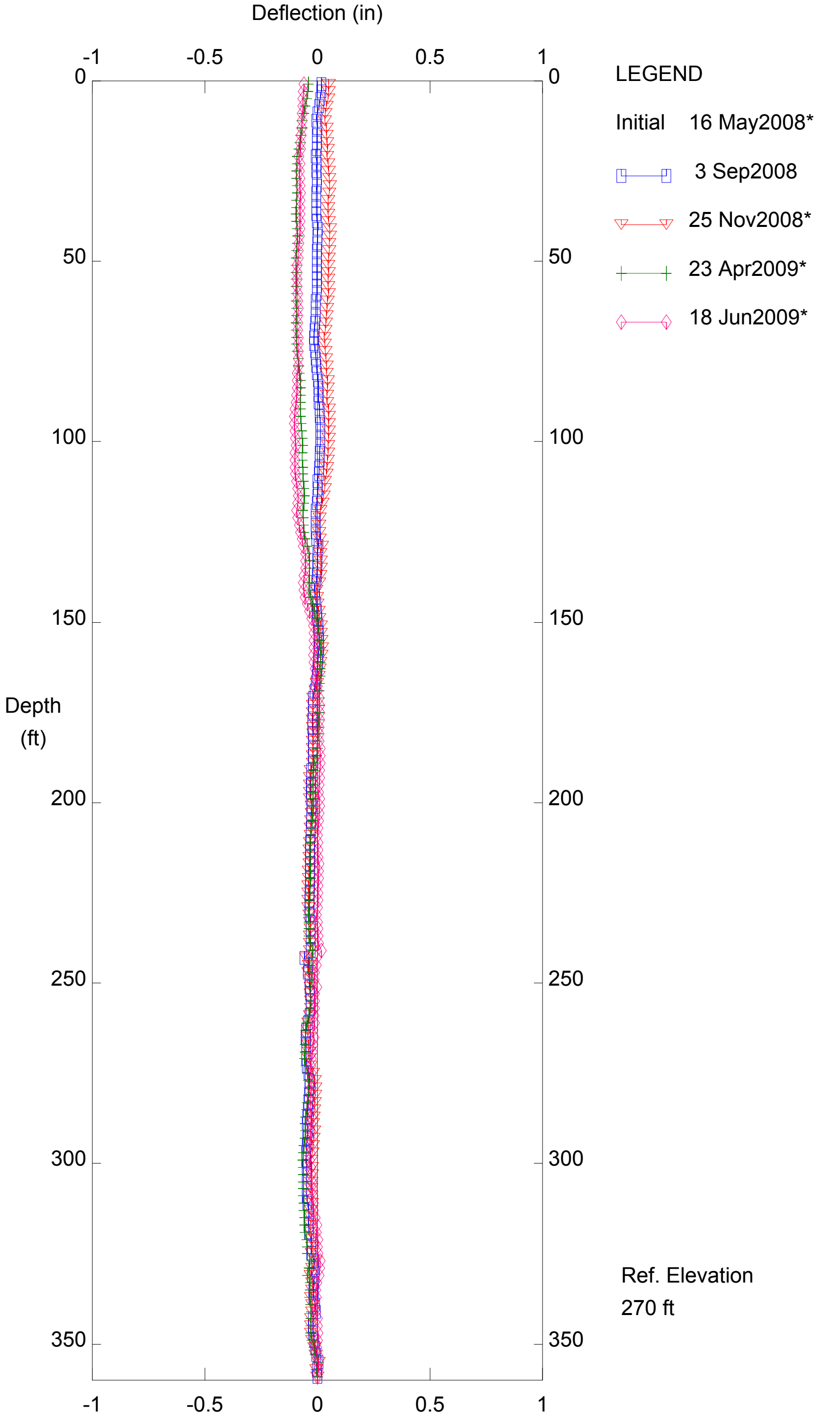
BRM, Inclinometer SP-10

BLUFF REGION

A+ Azimuth = 39

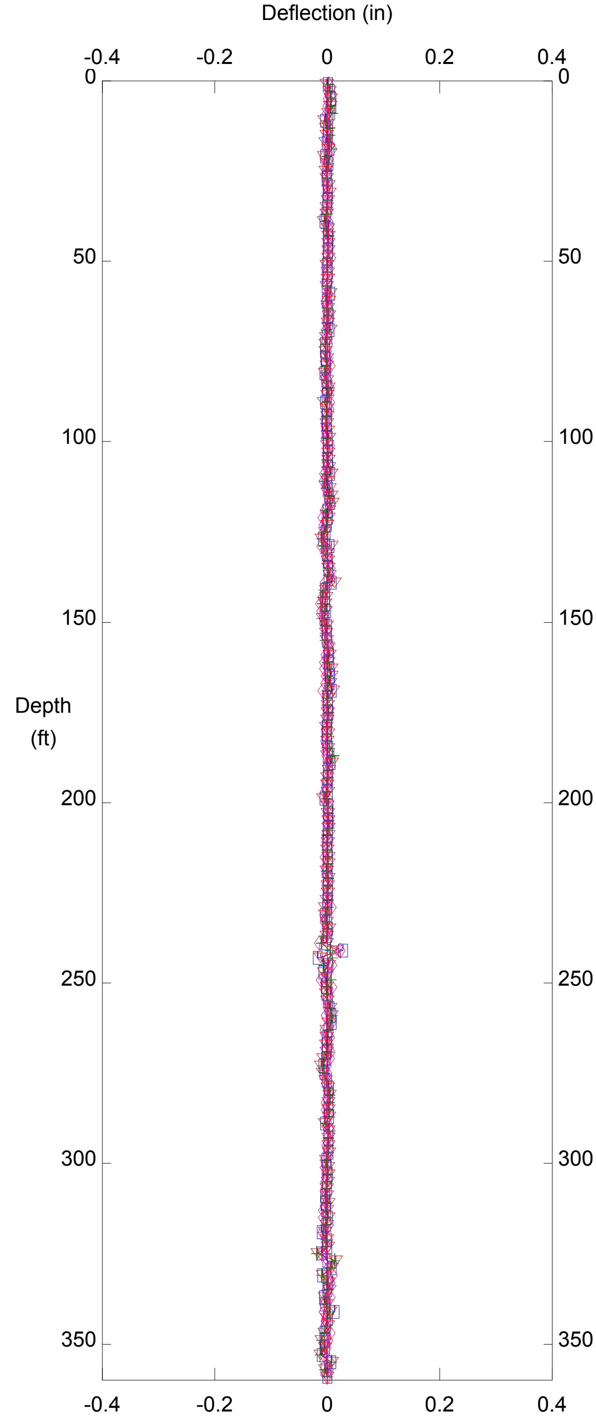
Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

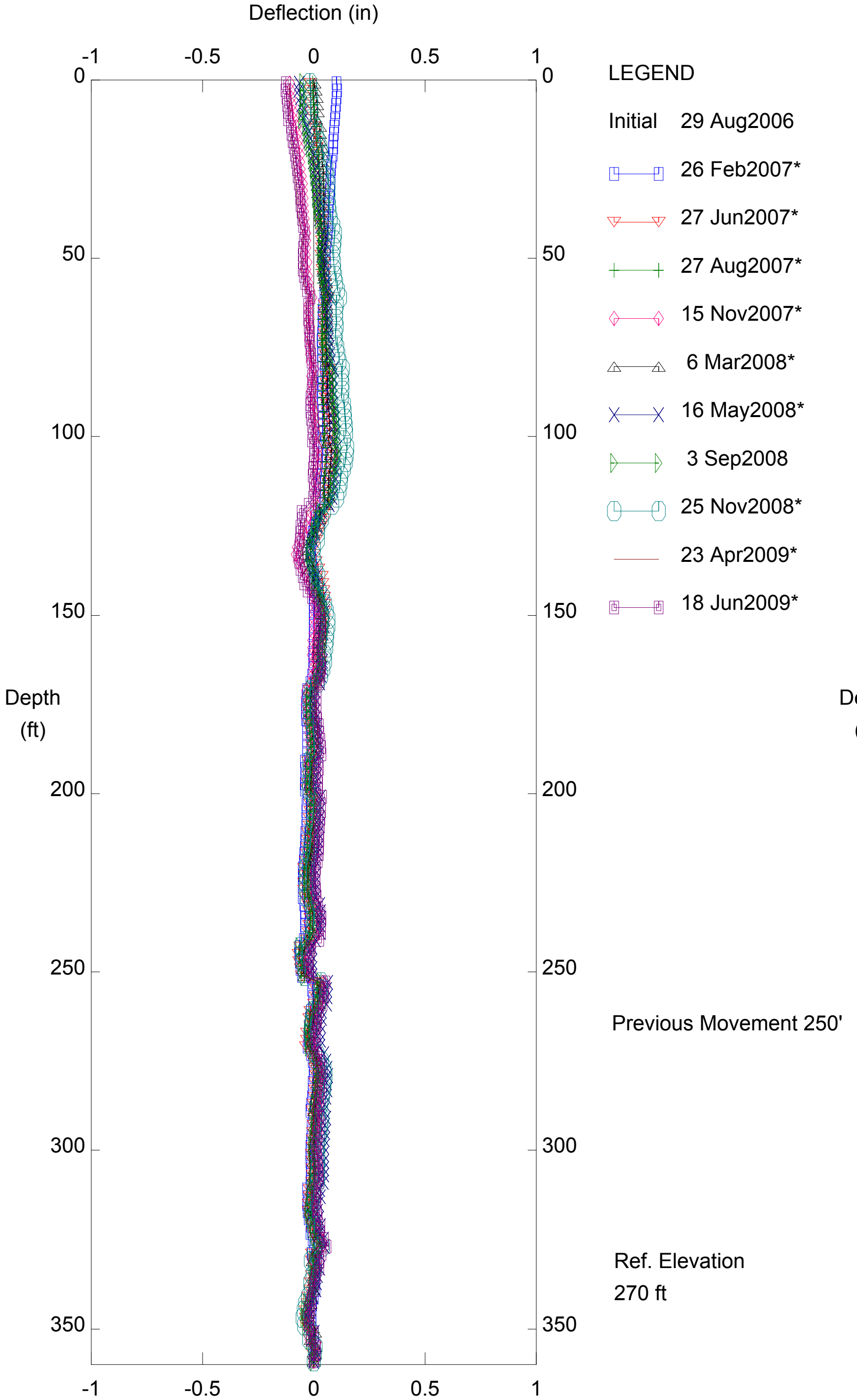
BRM, Inclinometer SP28

BLUFF REGION

A+ Azimuth = 204

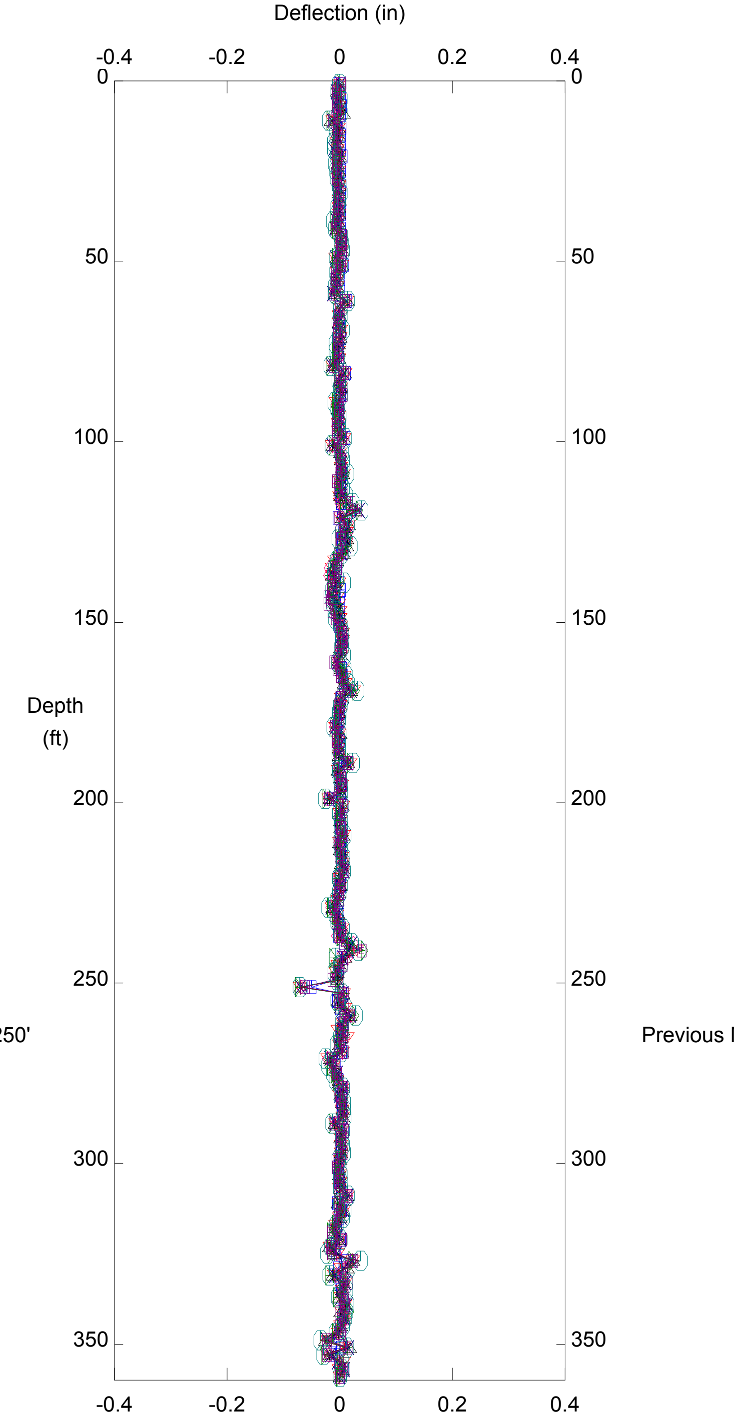
Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

BRM, Inclinometer SP28

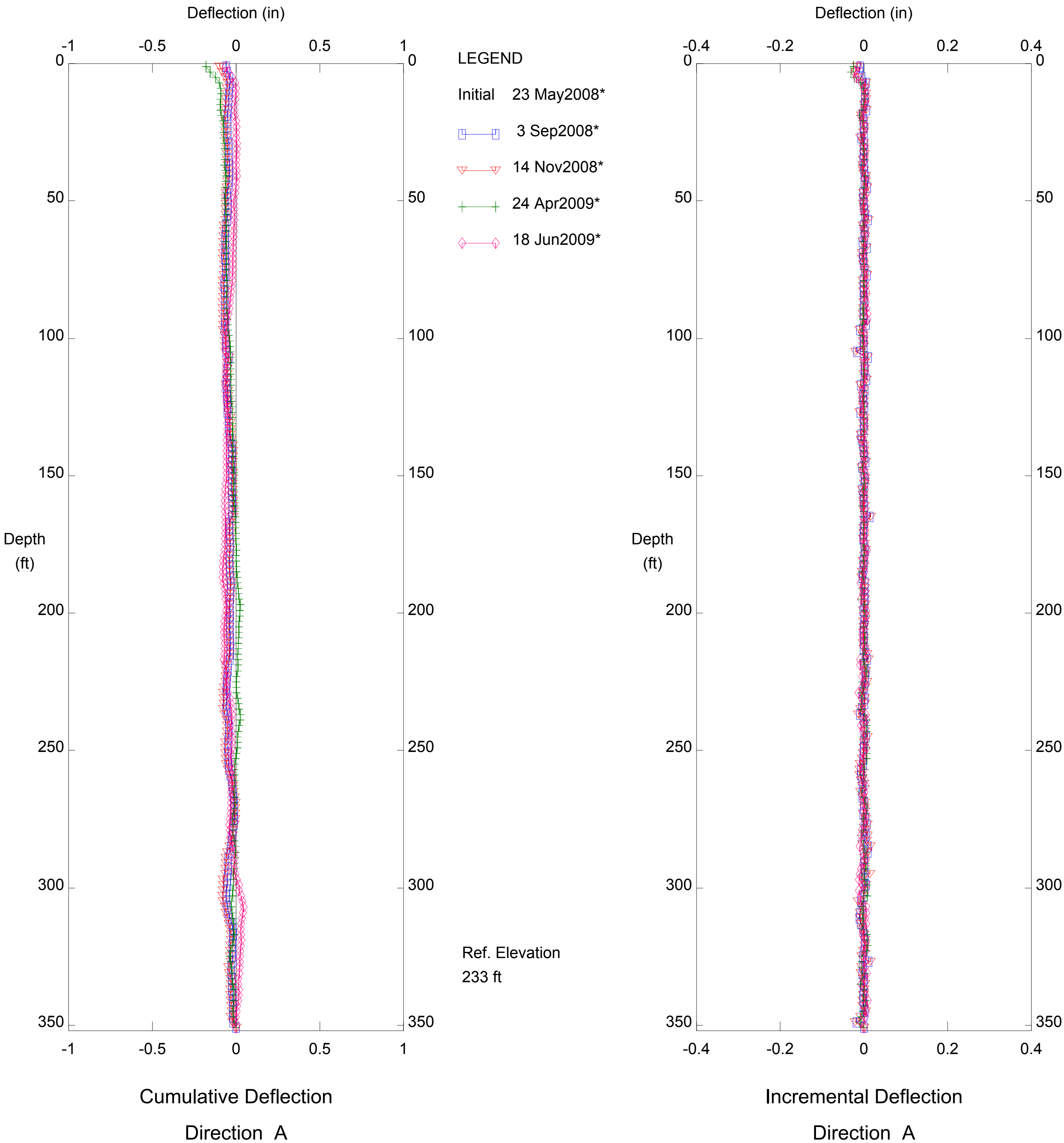
BLUFF REGION

A+ Azimuth = 204

Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP28.GTL

Fugro West, Inc. - Ventura, CA



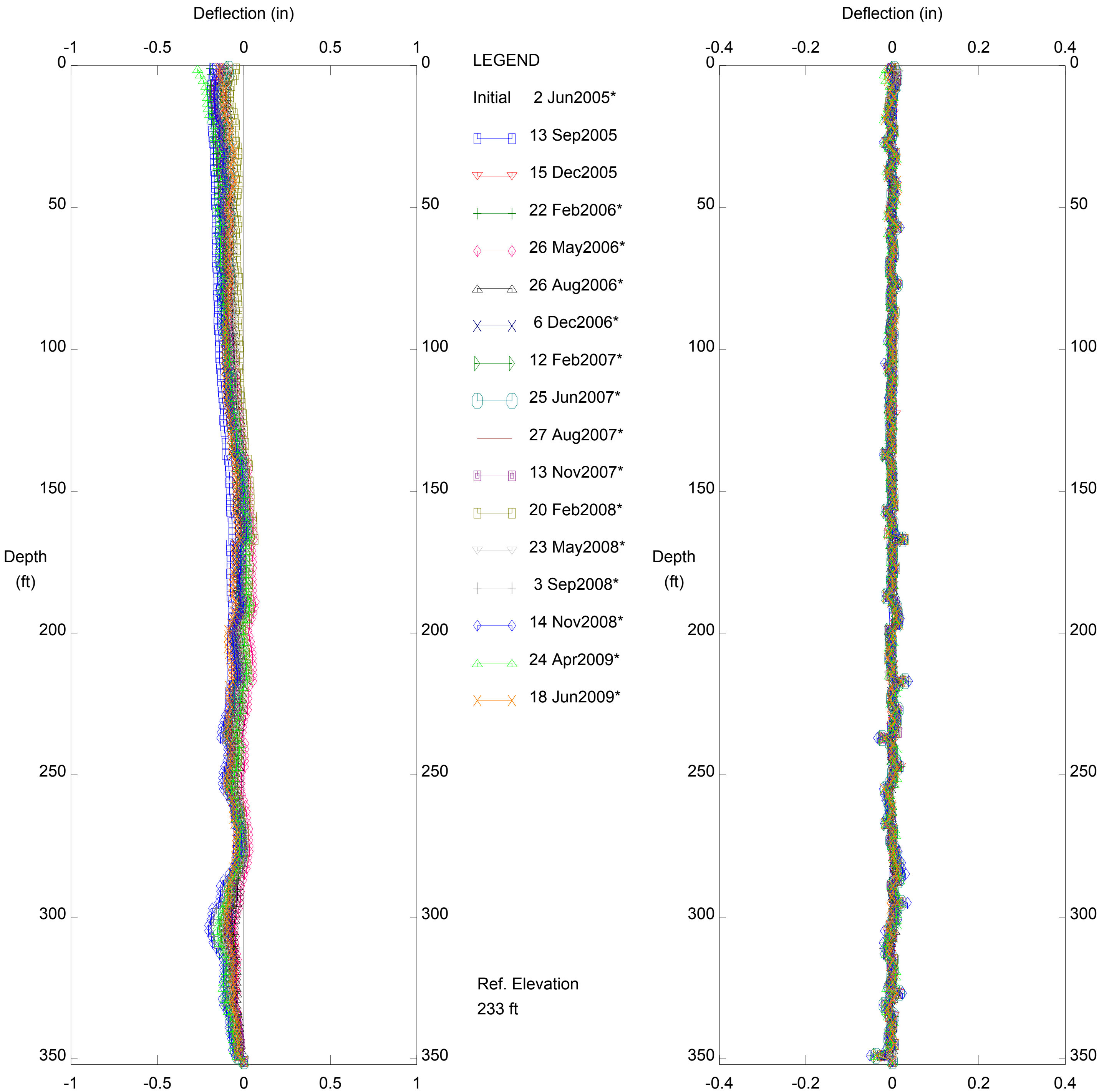
BRM, Inclinometer SP32

BLUFF REGION

A+ Azimuth = 18

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A

Incremental Deflection

Direction A

BRM, Inclinometer SP32

BLUFF REGION

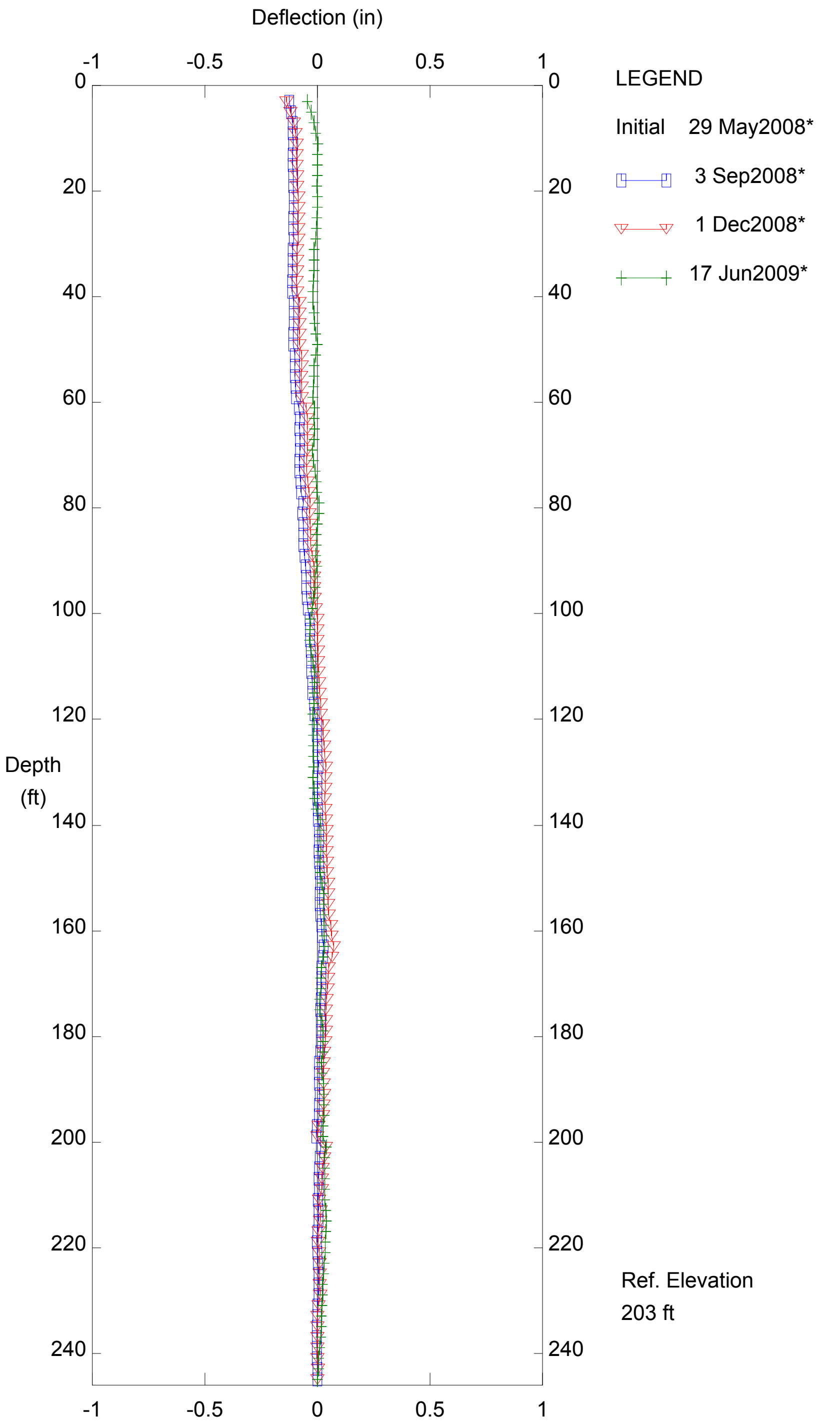
A+ Azimuth = 18

Sets marked * include zero shift and/or rotation corrections.

past movement 250 feet

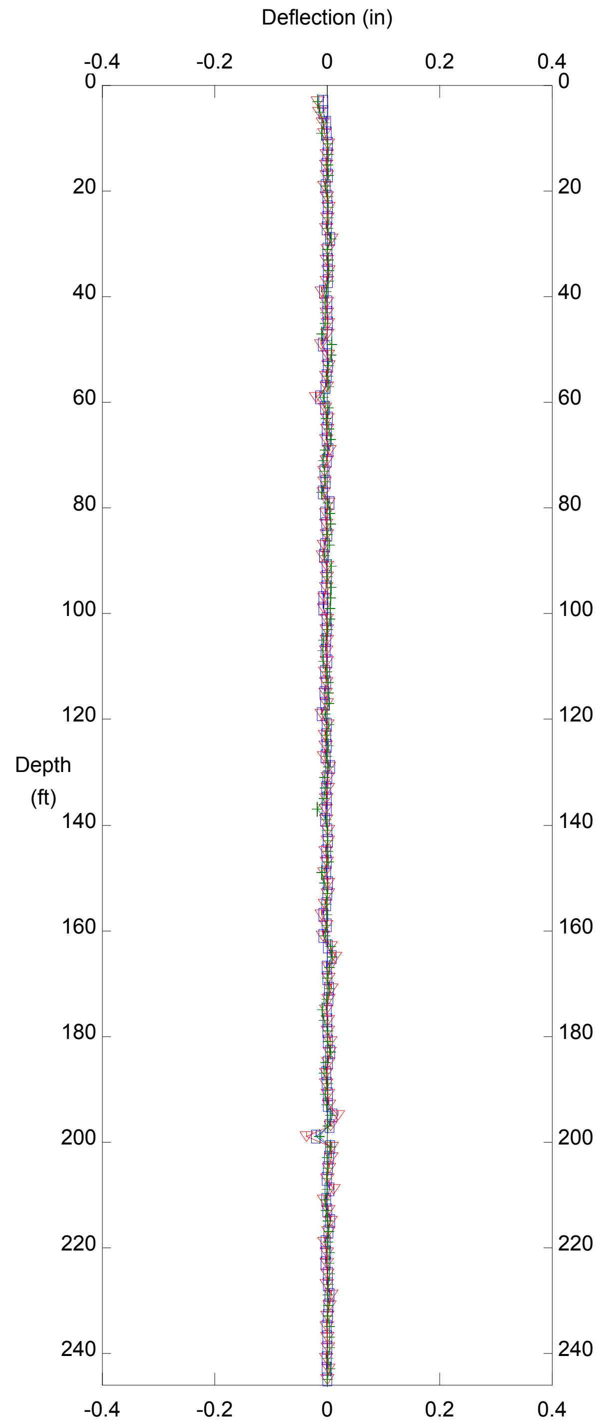
past movement 250 feet

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

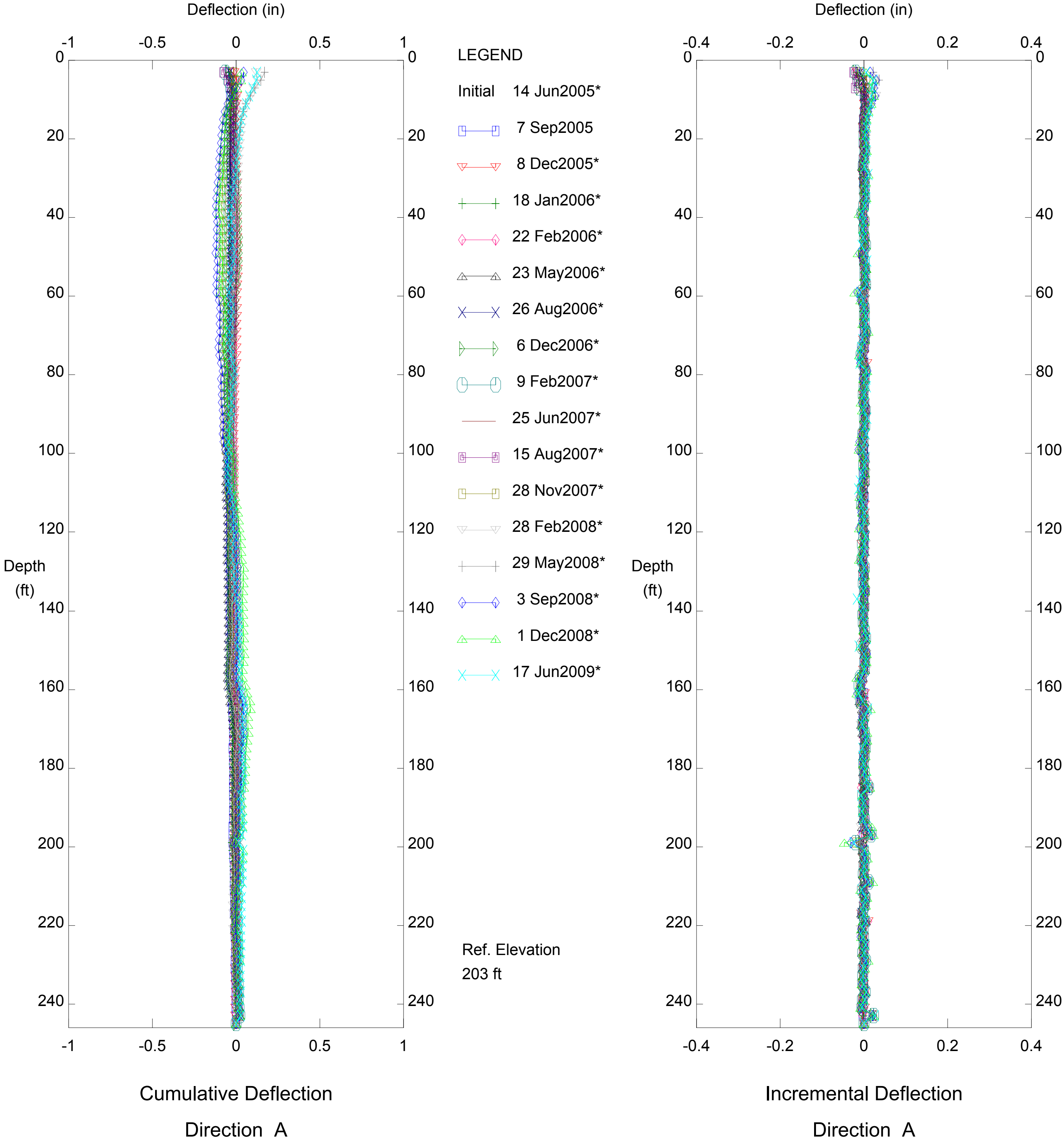
BRM, Inclinometer SP3A

EASTERN REGION

A+ Azimuth = 60

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



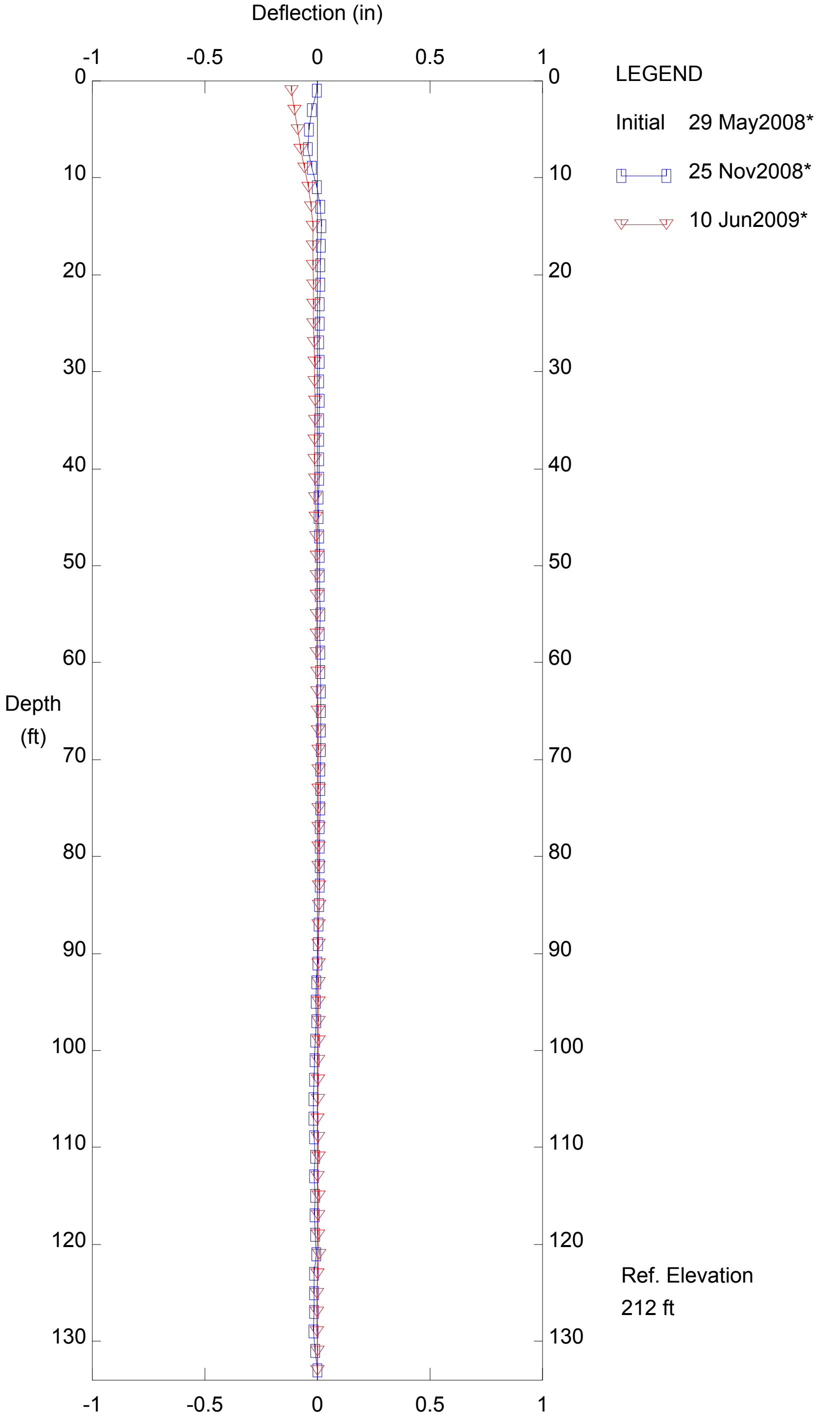
BRM, Inclinometer SP3A

EASTERN REGION

A+ Azimuth = 60

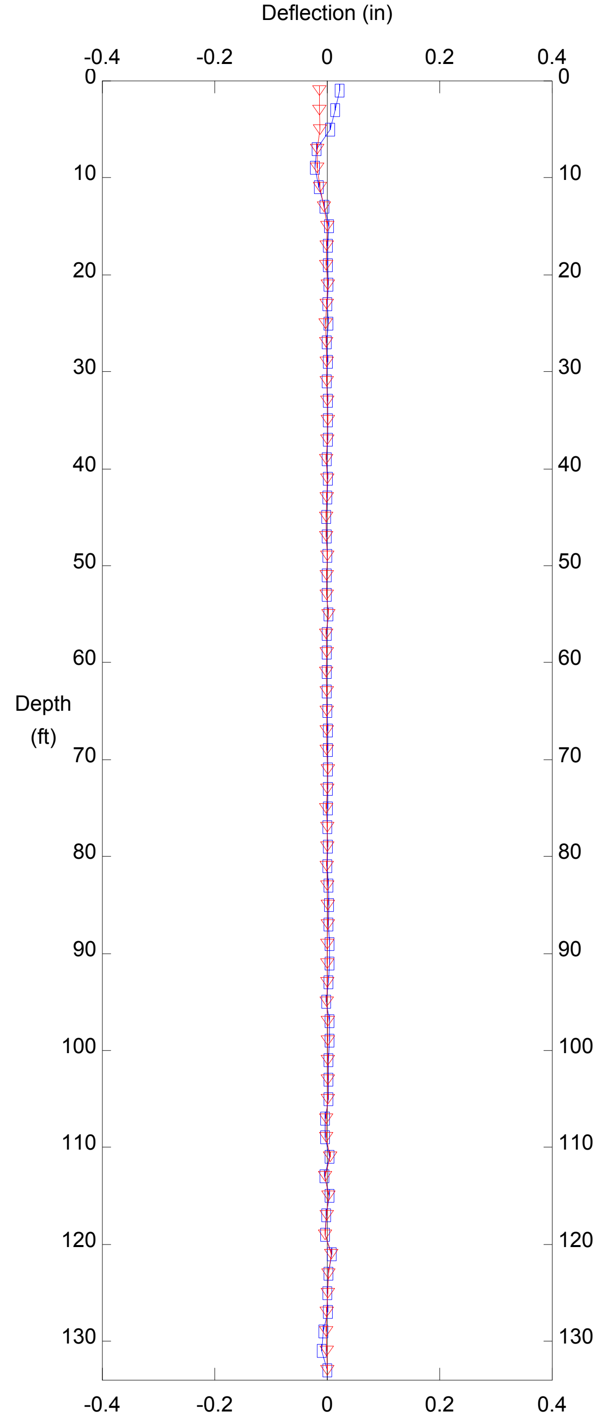
Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

BRM, Inclinometer SP3

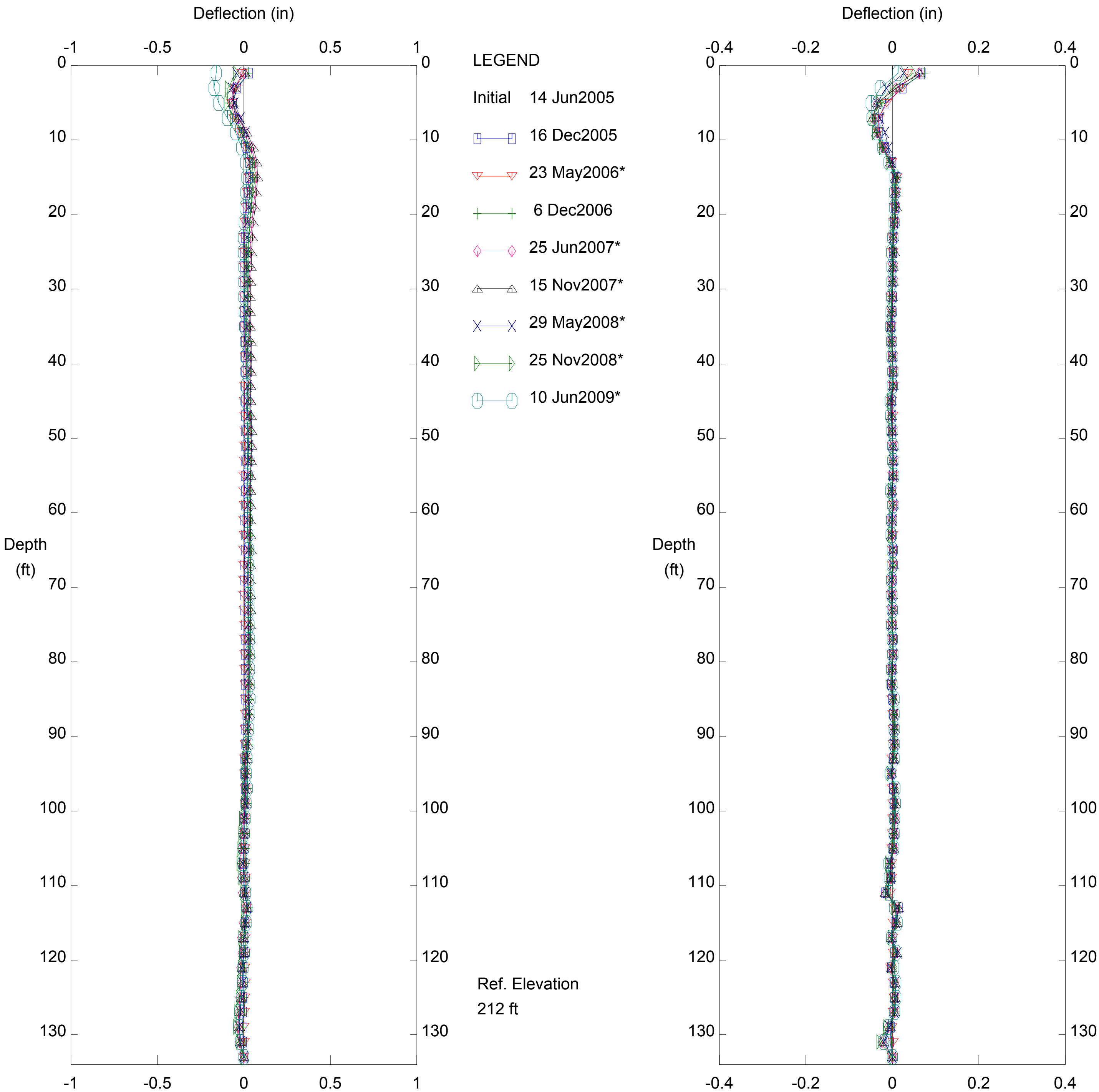
East Region

A+ Azimuth = 32

Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP3.GTL

Fugro West, Inc. - Ventura, CA



Cumulative Deflection
Direction A

Incremental Deflection
Direction A

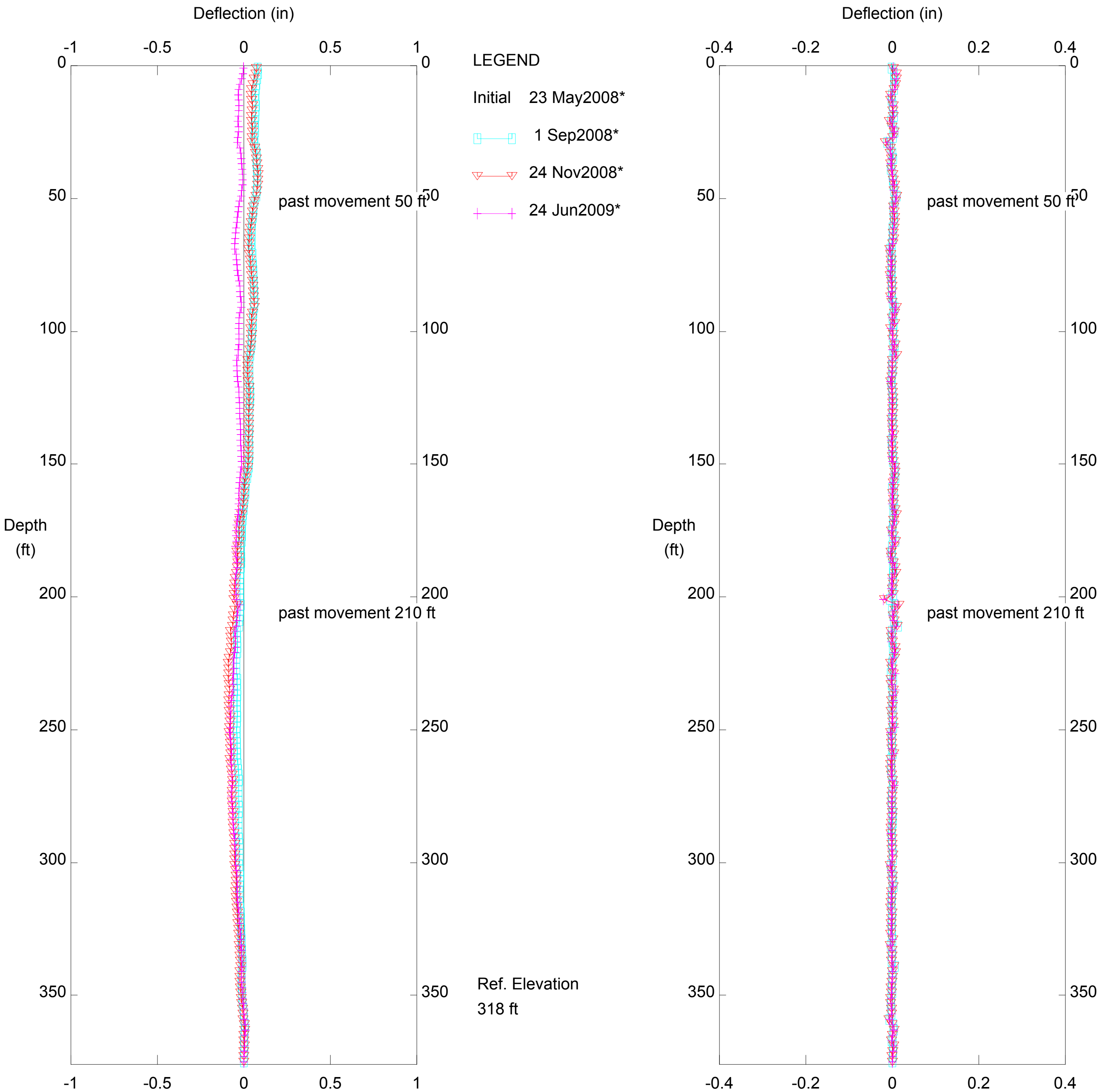
BRM, Inclinometer SP3

East Region

A+ Azimuth = 32

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A

Incremental Deflection

Direction A

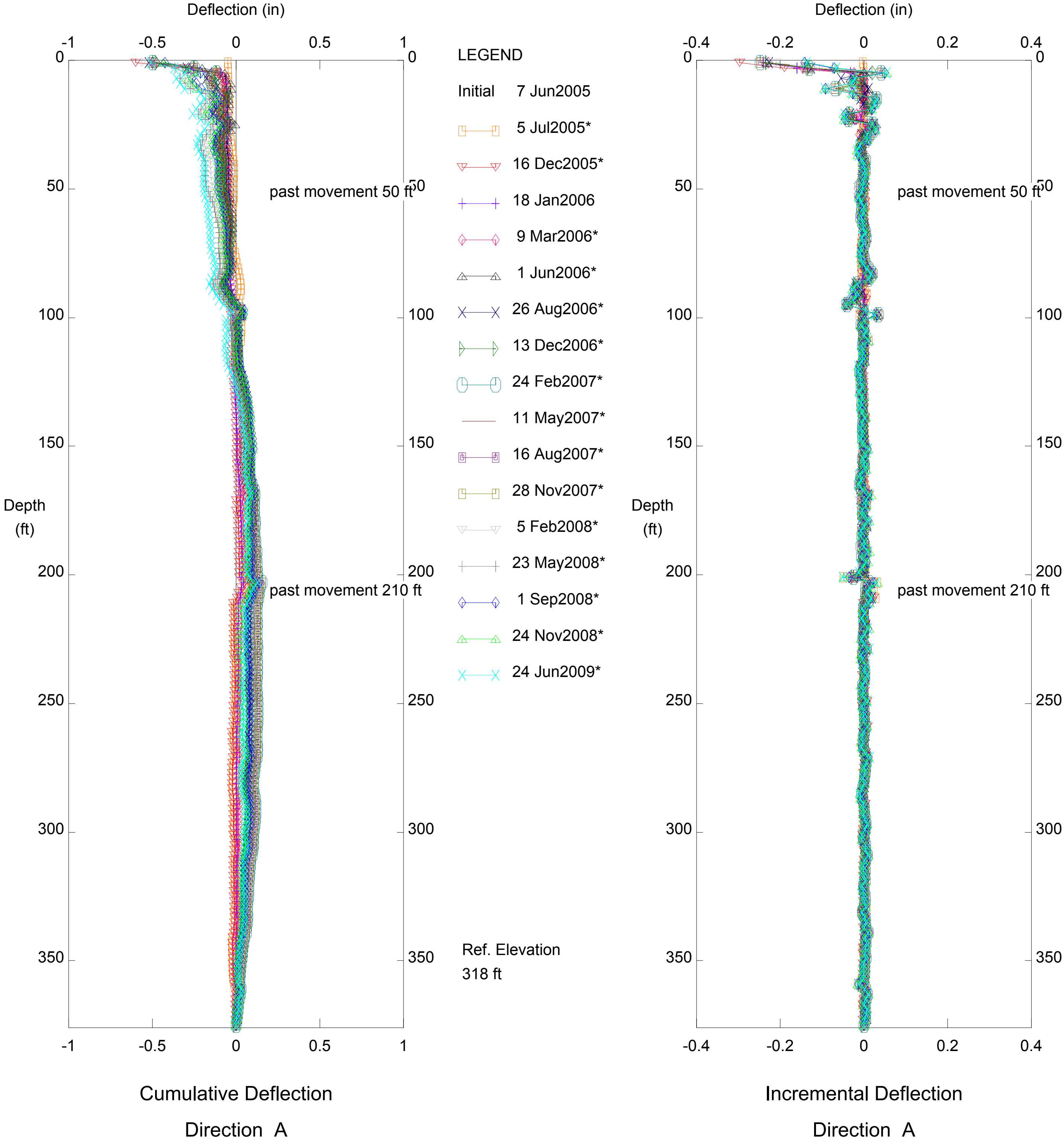
BRM, Inclinometer SP33

EASTERN REGION

A+ Azimuth = 20

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



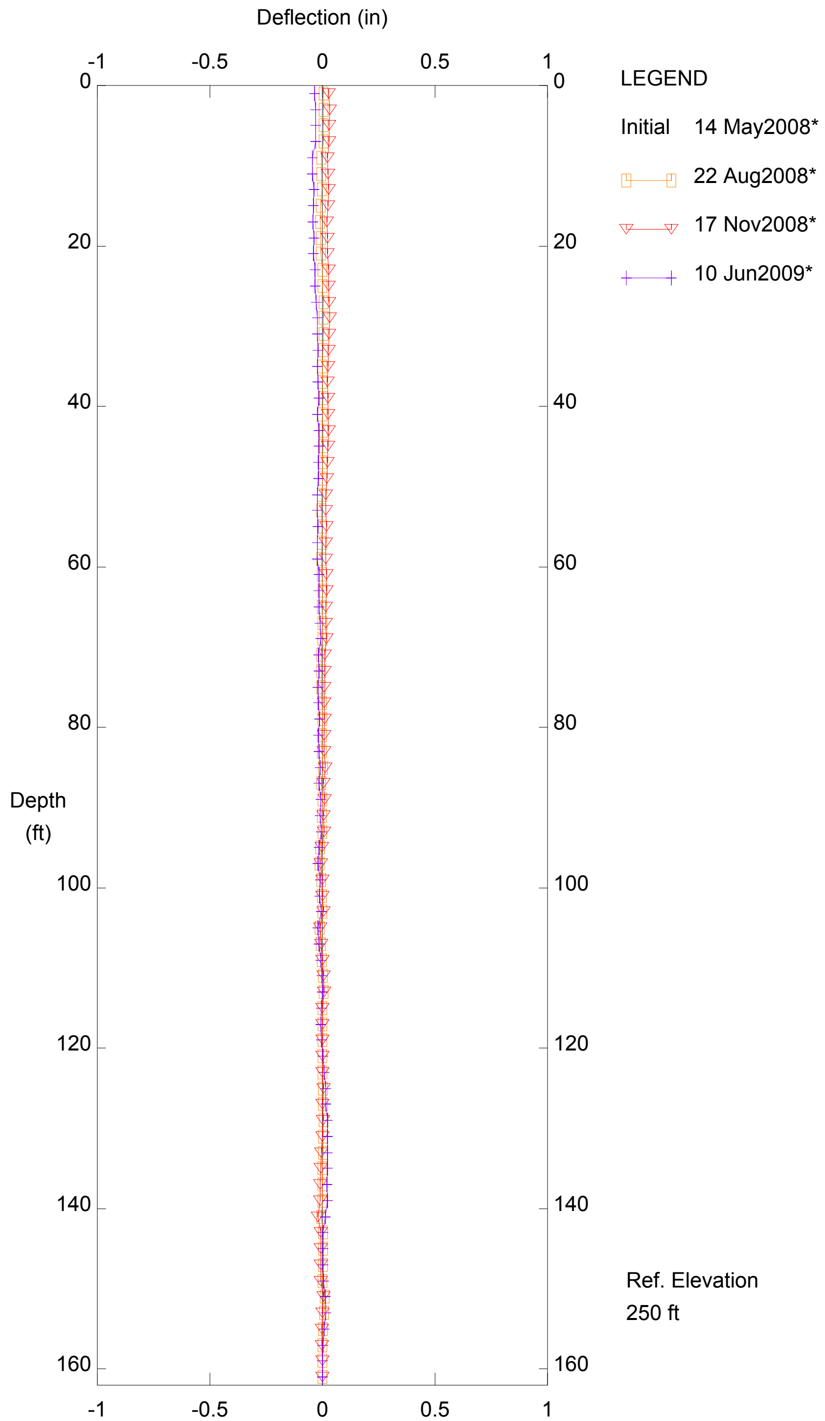
BRM, Inclinometer SP33

EASTERN REGION

A+ Azimuth = 20

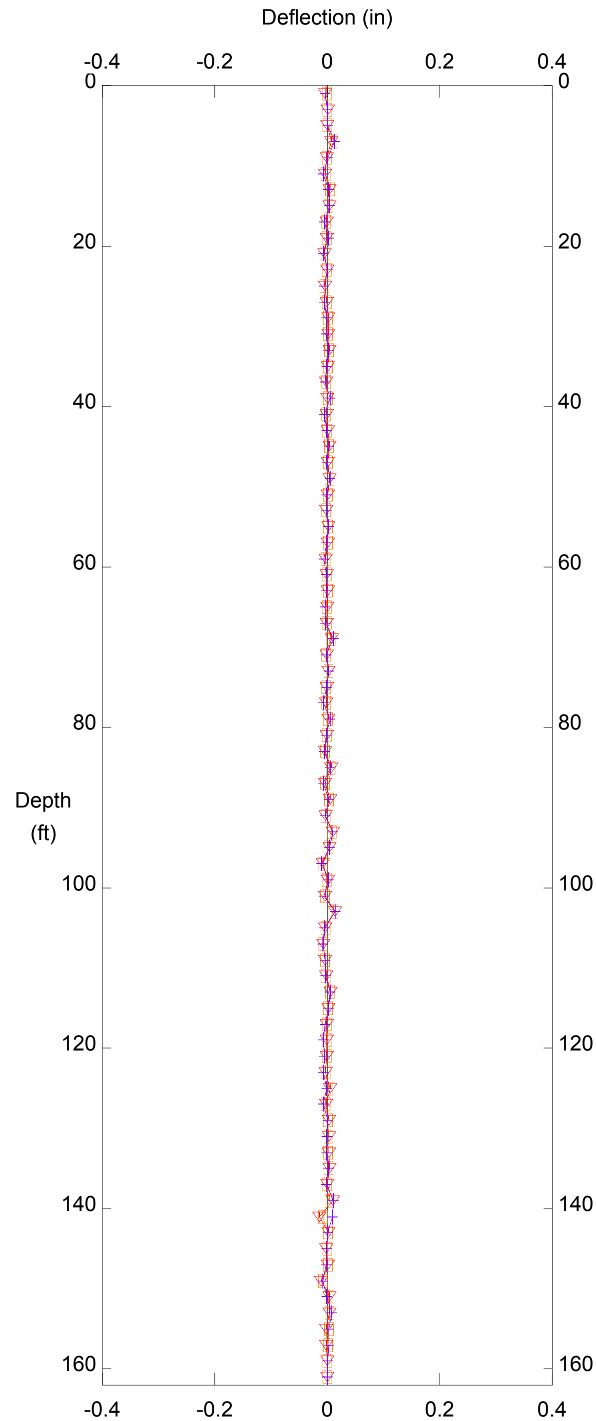
Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

BIG ROCK MESA, Inclinometer PC-1

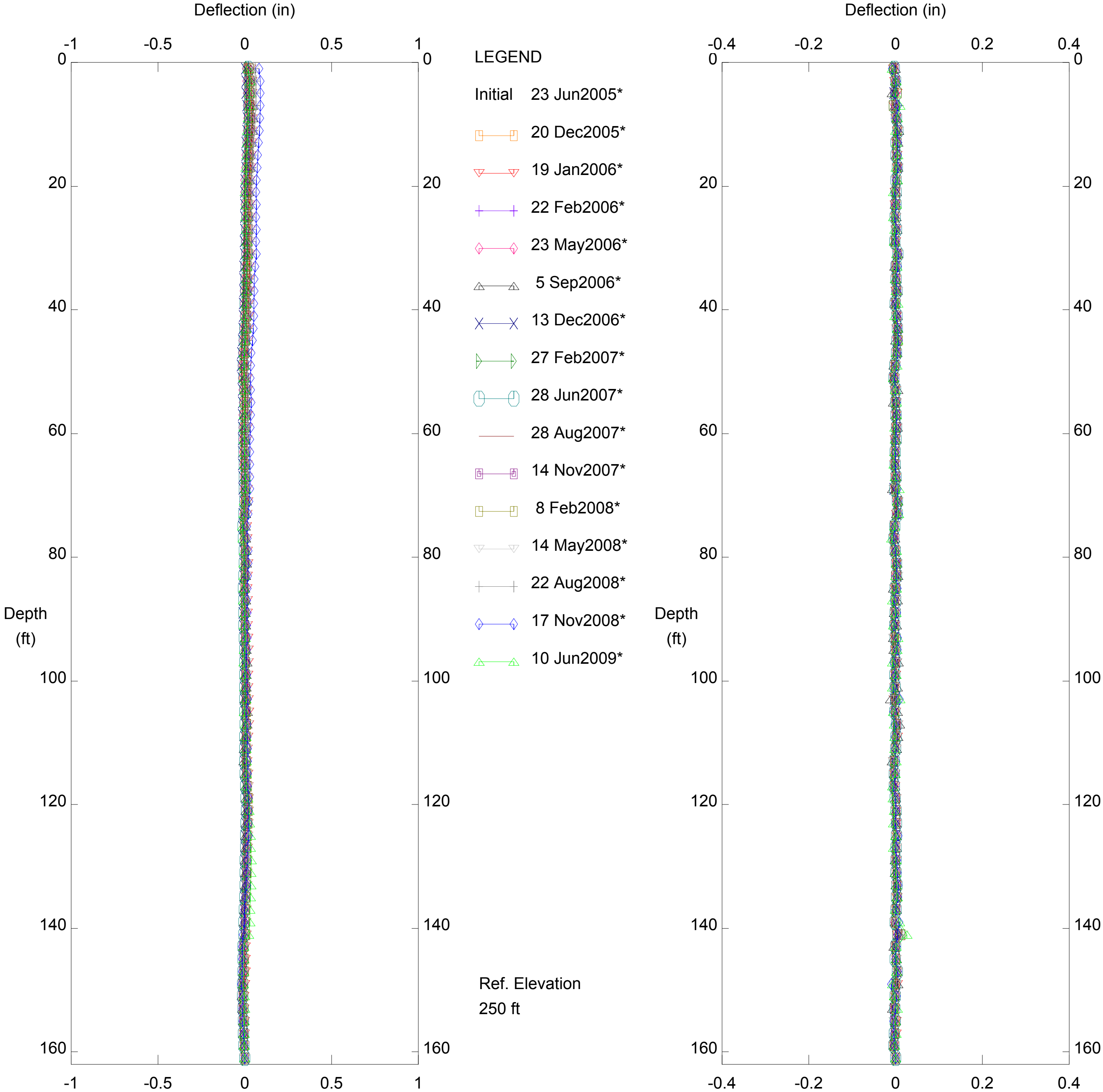
EASTERN REGION

A+ Azimuth = 190

Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\PC-1.GTL

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A

Incremental Deflection

Direction A

BIG ROCK MESA, Inclinometer PC-1

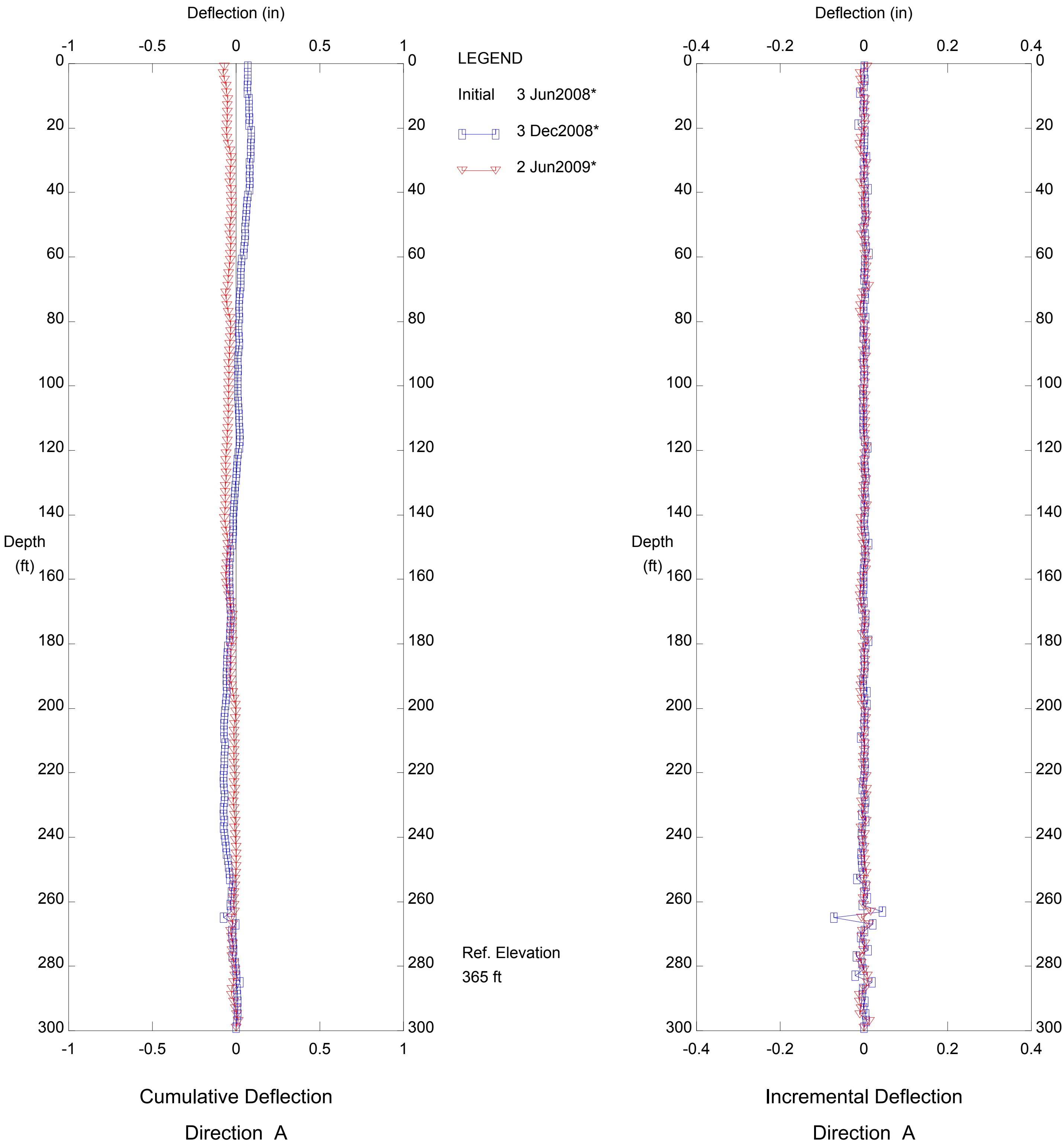
EASTERN REGION

A+ Azimuth = 190

Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\PC-1.GTL

Fugro West, Inc. - Ventura, CA



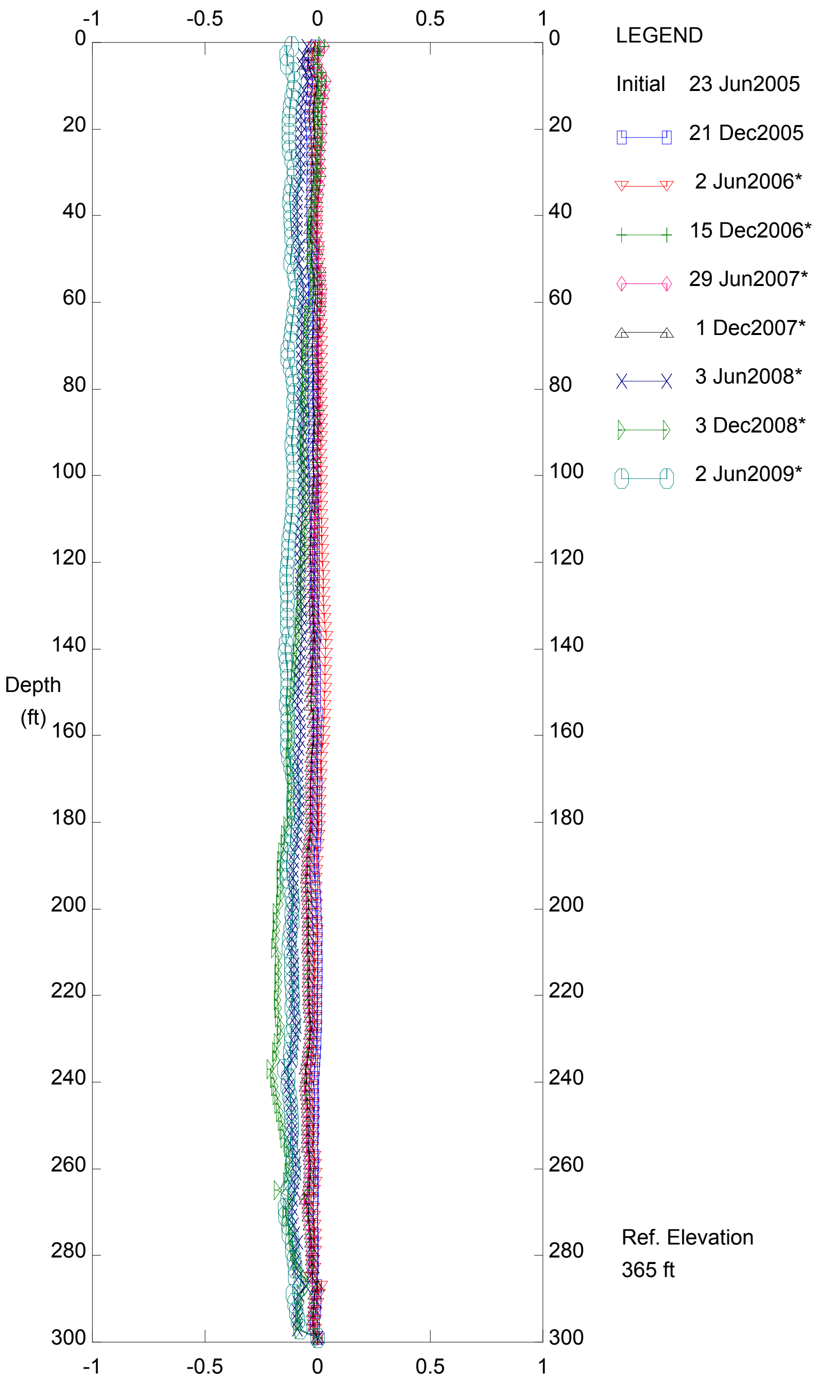
BRM, Inclinometer SP9A

CENTRAL REGION

A+ Azimuth = 340

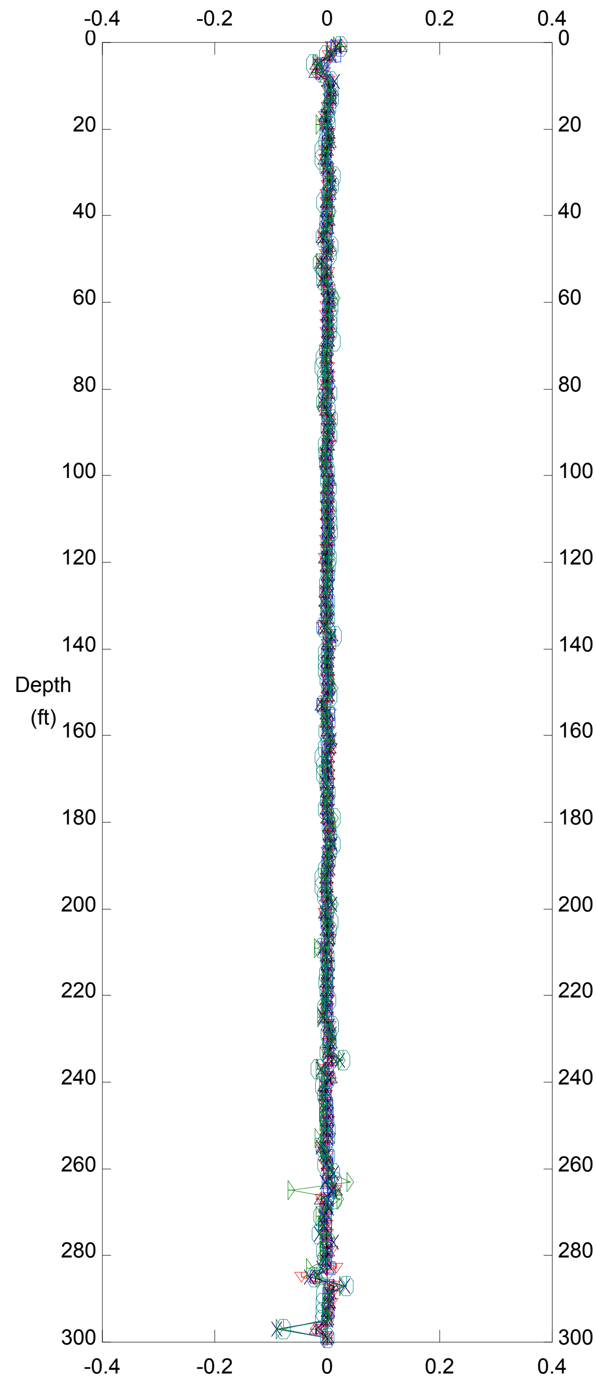
Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

BRM, Inclinometer SP9A

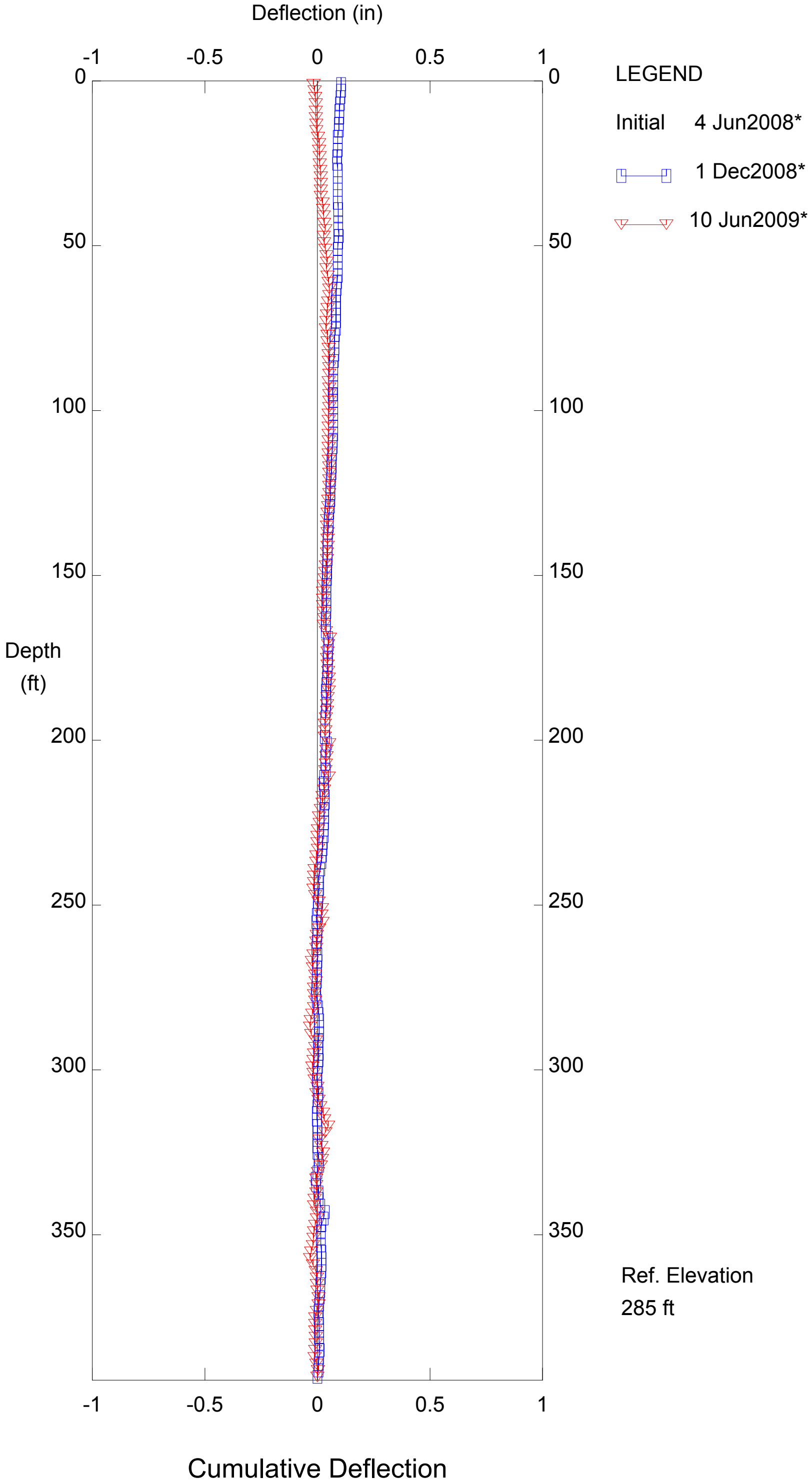
CENTRAL REGION

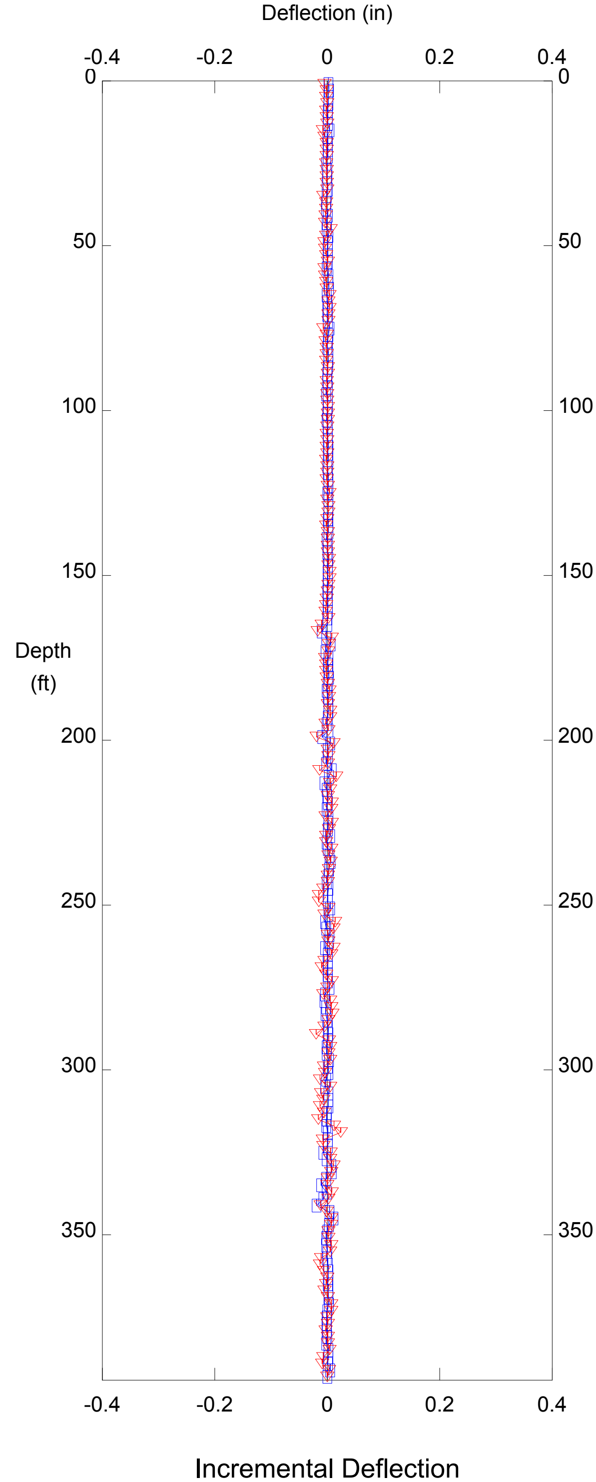
A+ Azimuth = 340

Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP9A.GTL

Fugro West, Inc. - Ventura, CA





BRM, Inclinometer SP16A

CENTRAL REGION

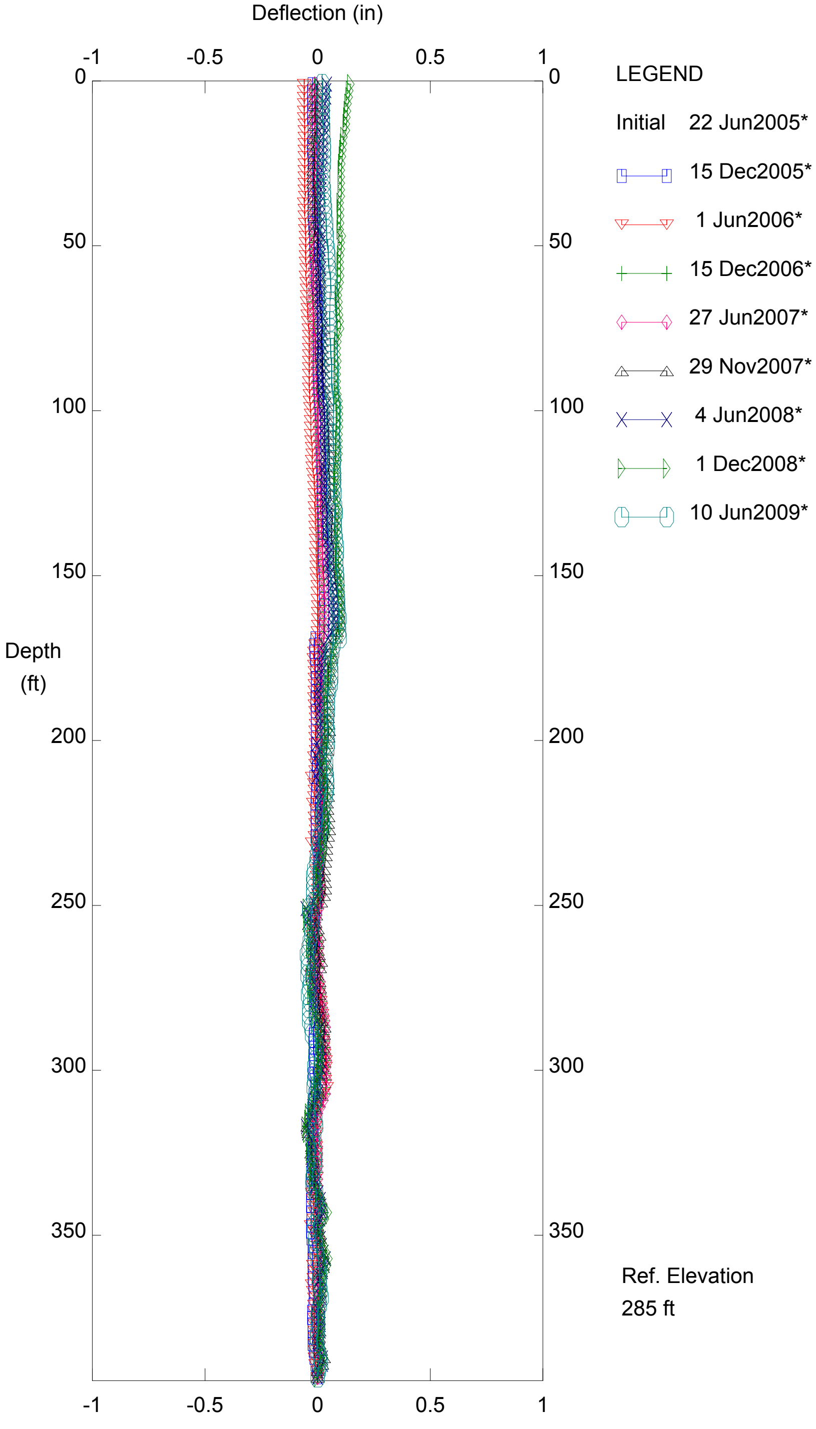
A+ Azimuth = 330

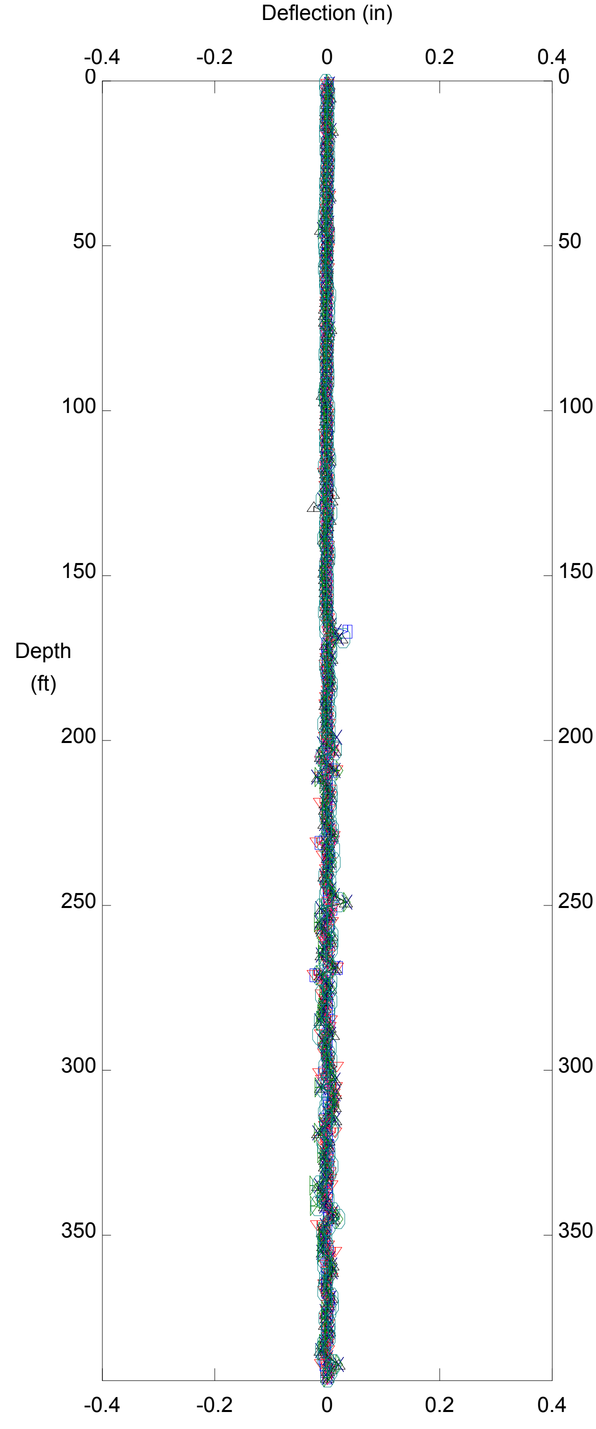
Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP16A.GTL

PLATE D-18a

Fugro West, Inc. - Ventura, CA





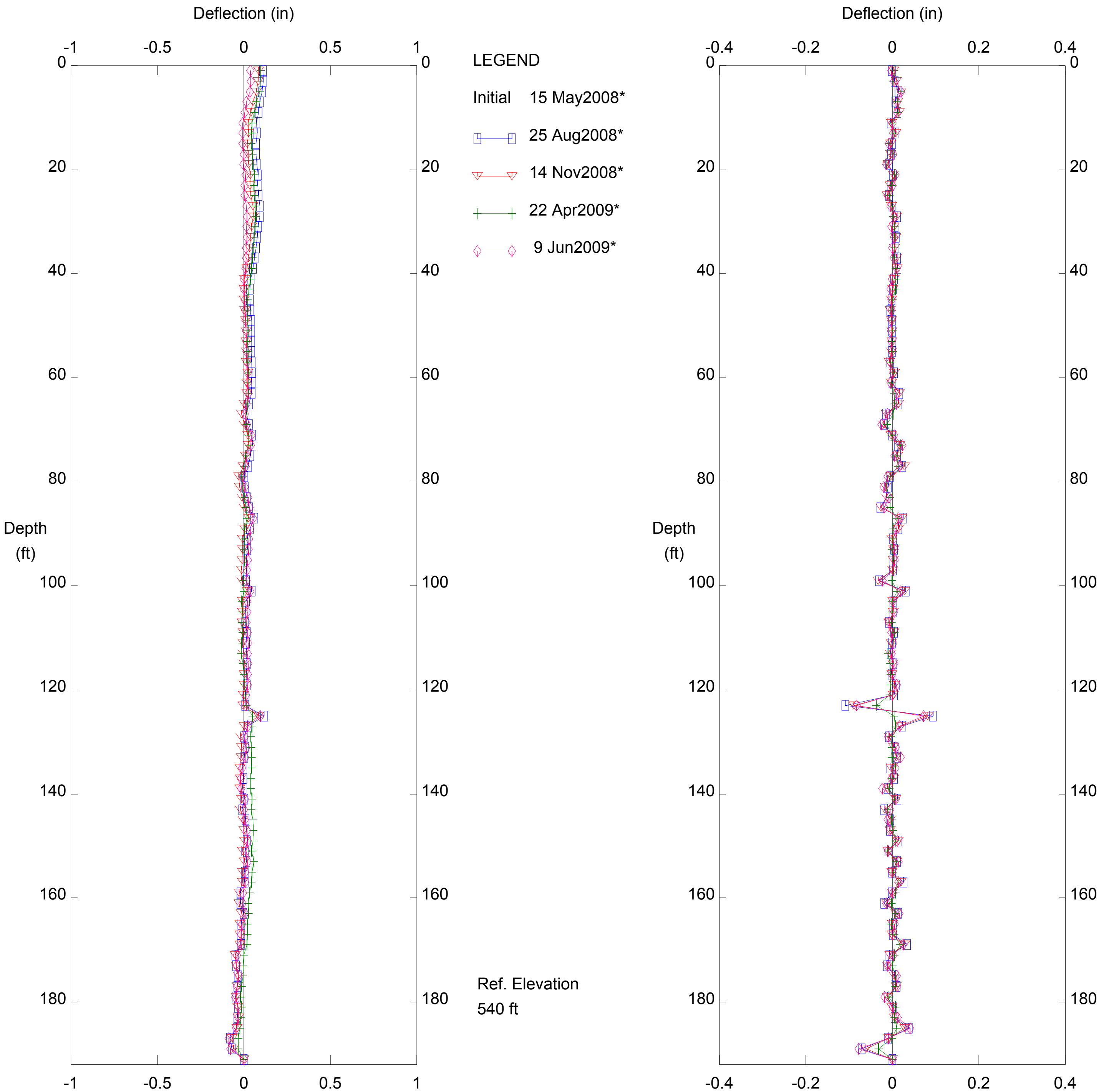
BRM, Inclinometer SP16A

CENTRAL REGION

A+ Azimuth = 330

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A

Incremental Deflection

Direction A

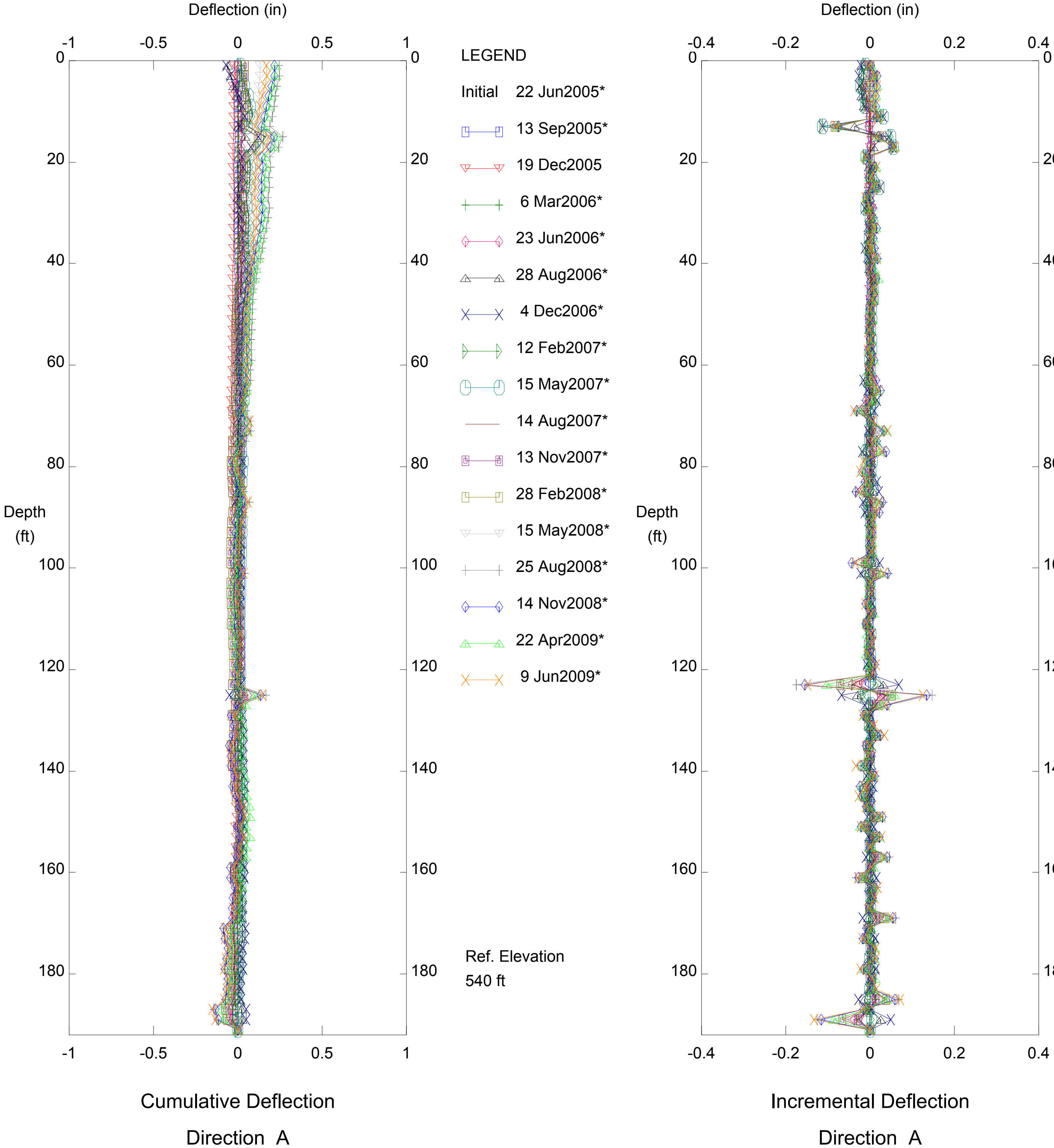
BRM, Inclinometer SP17

CENTRAL REGION

A+ Azimuth = 10

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



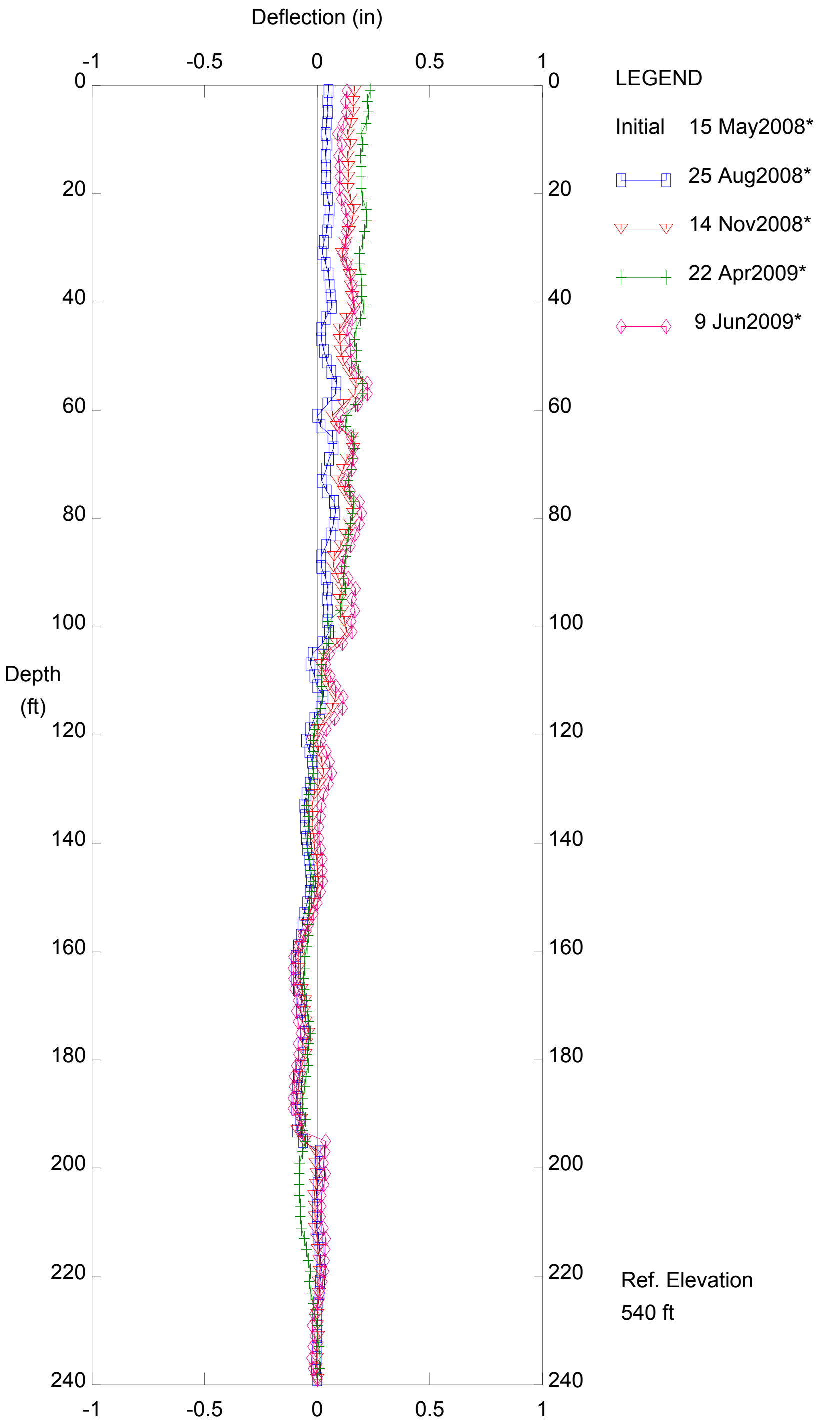
BRM, Inclinometer SP17

CENTRAL REGION

A+ Azimuth = 10

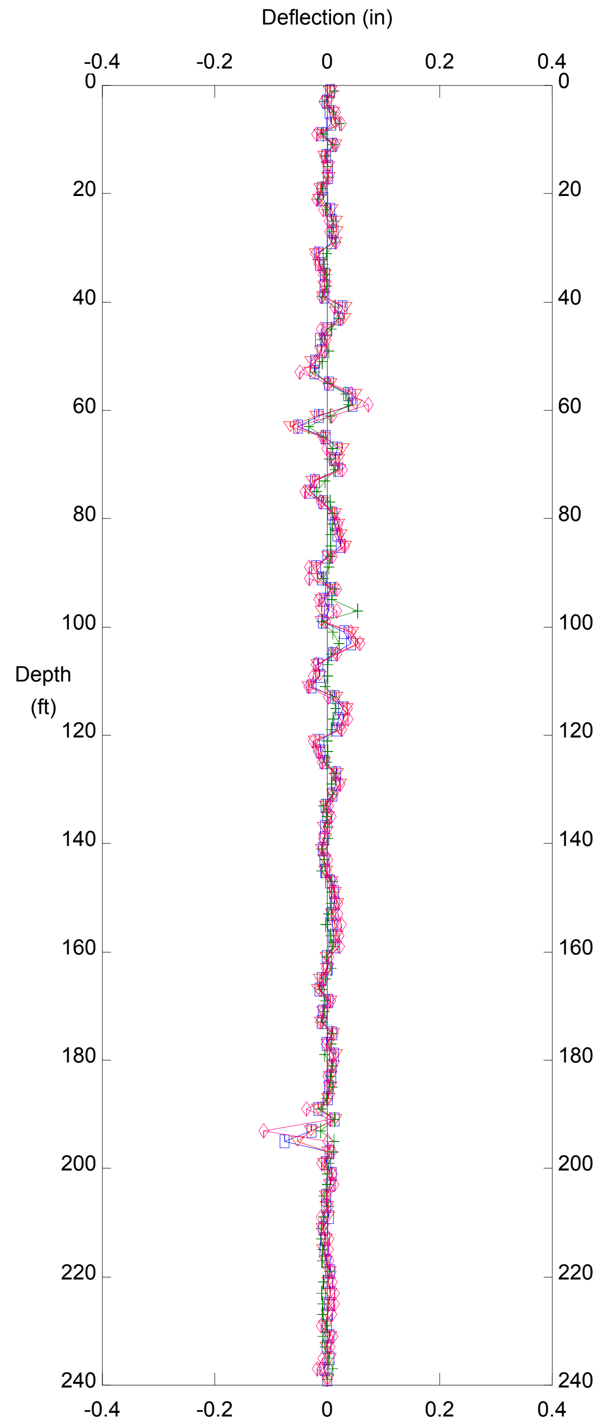
Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

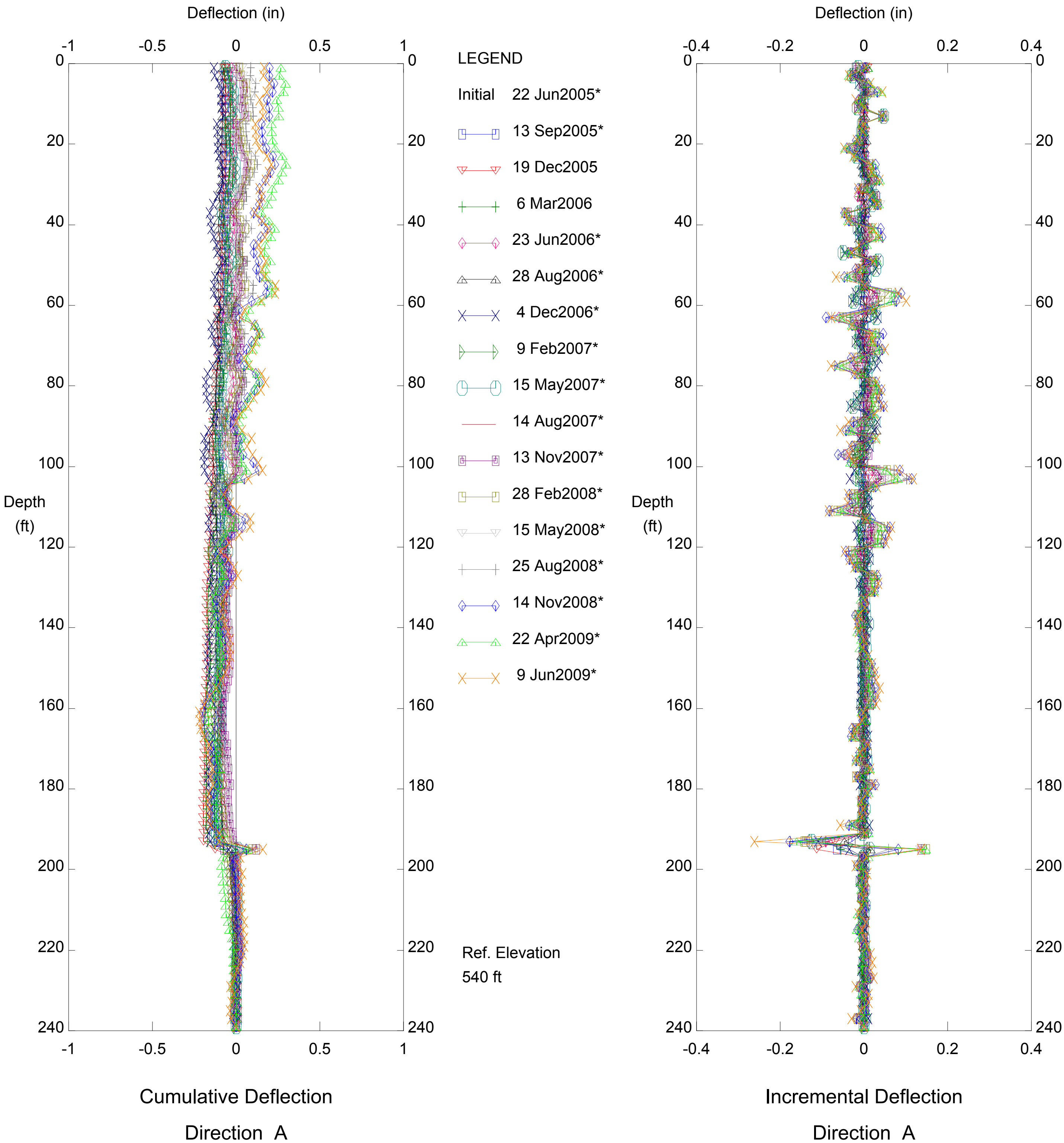
BRM, Inclinometer SP17A

CENTRAL REGION

A+ Azimuth = 60

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



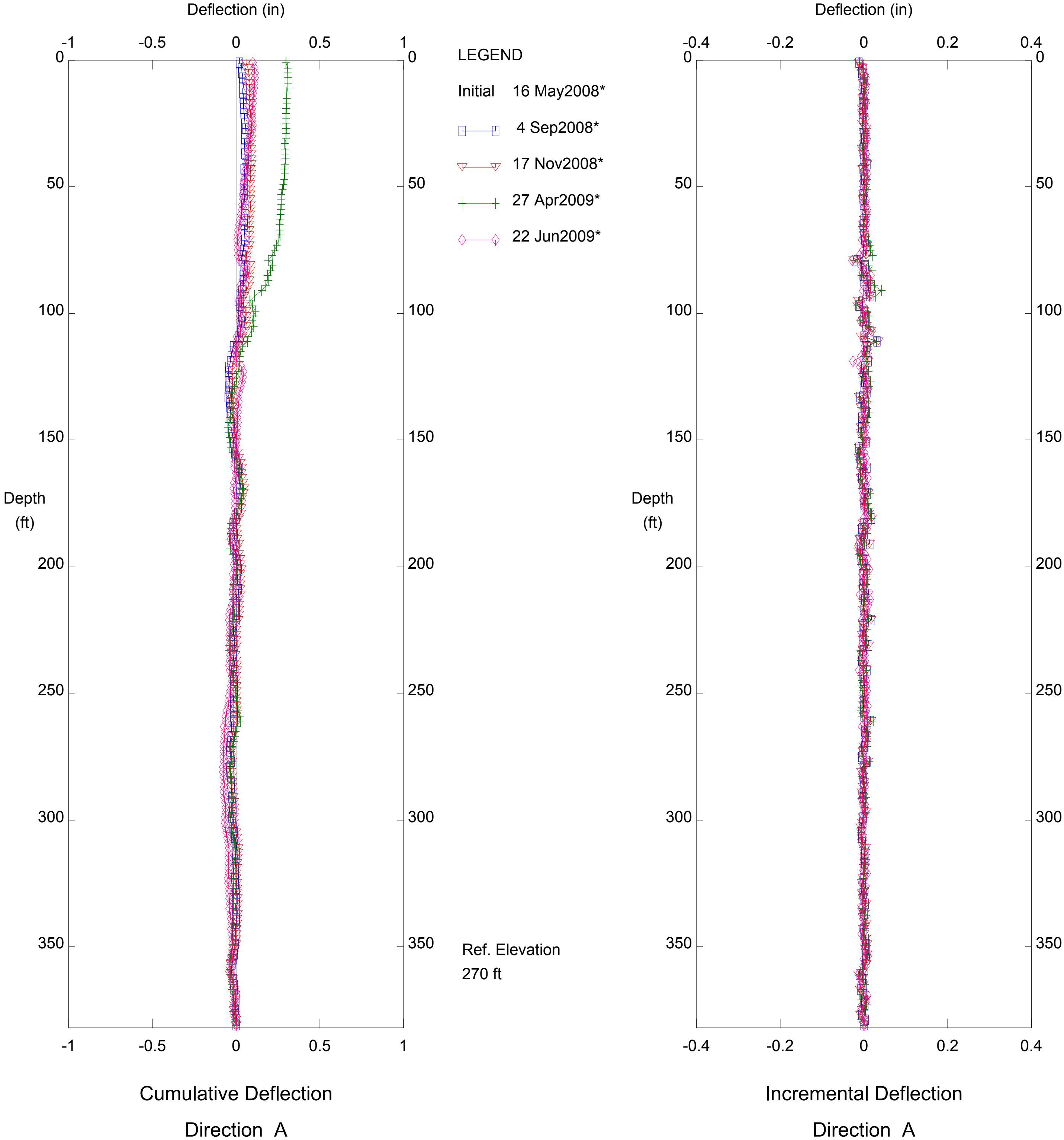
BRM, Inclinometer SP17A

CENTRAL REGION

A+ Azimuth = 60

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



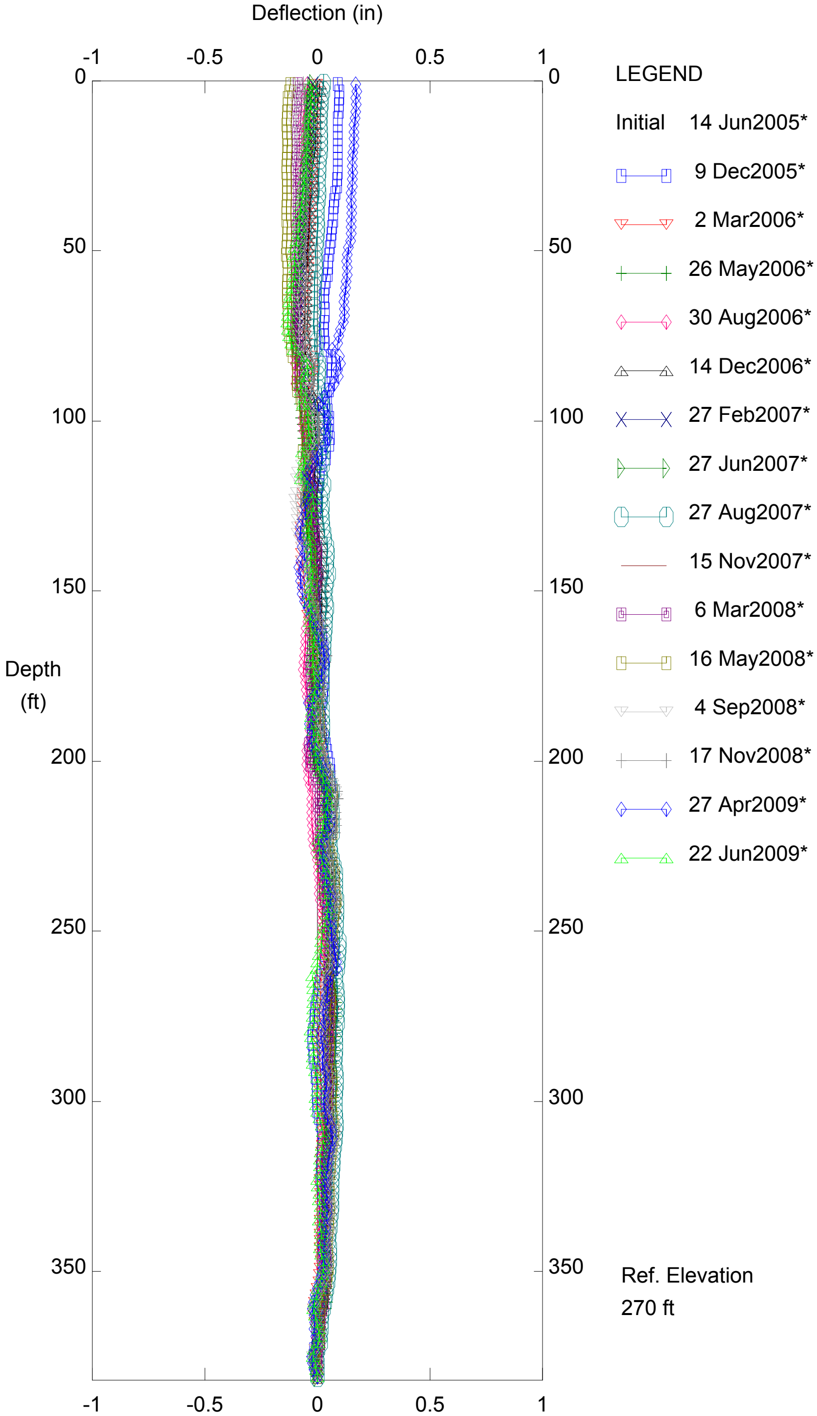
BRM, Inclinometer SP34

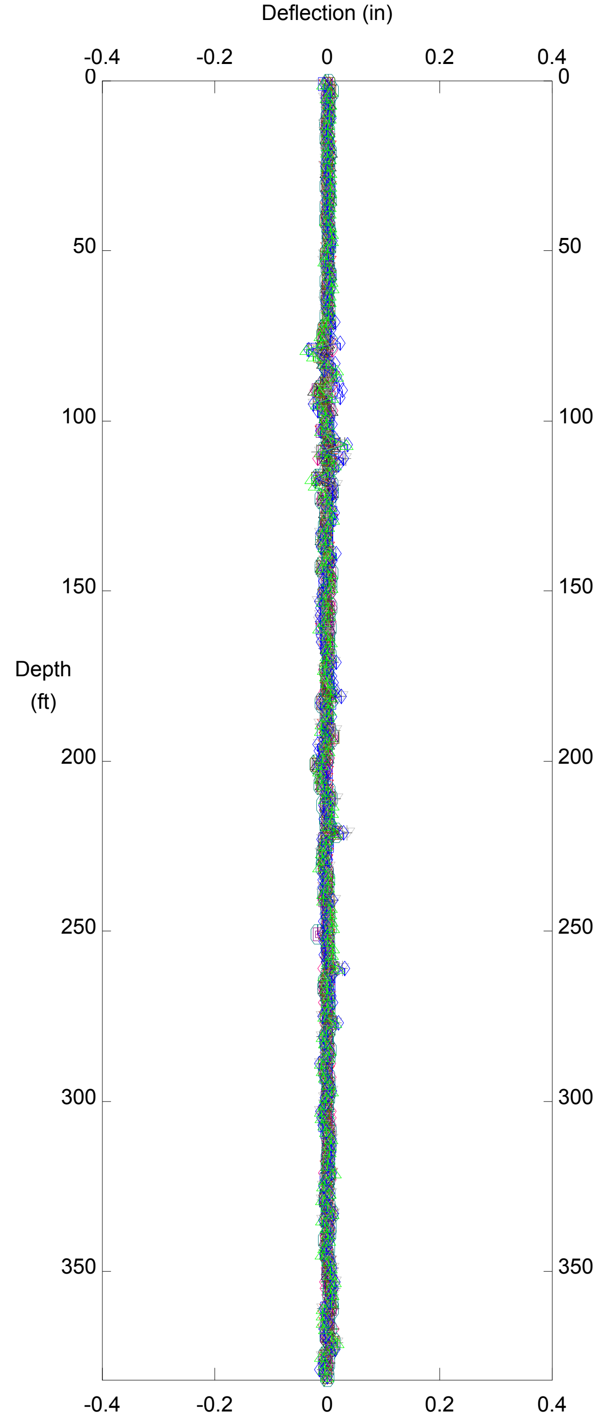
CENTRAL REGION

A+ Azimuth = 210

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA





BRM, Inclinometer SP34

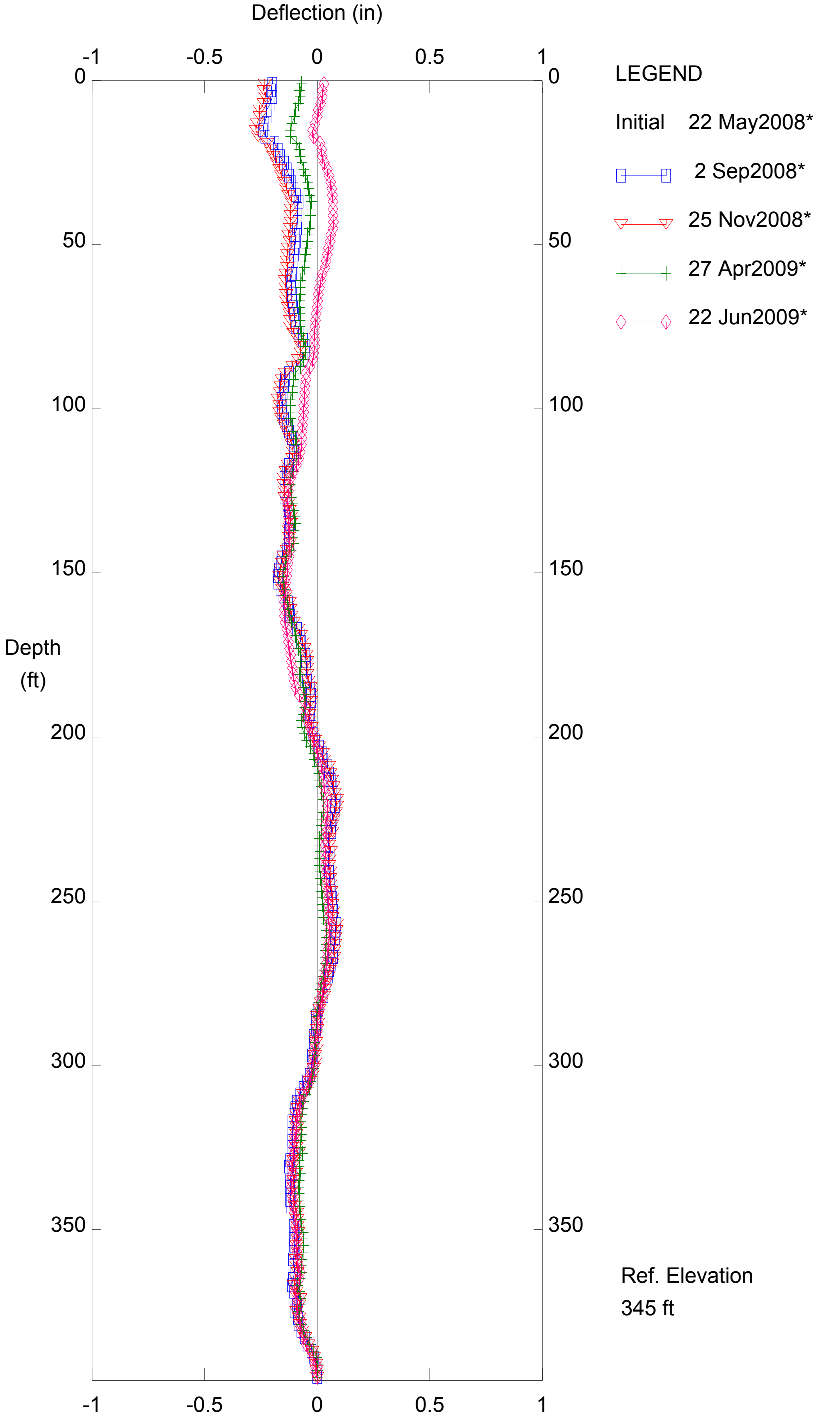
CENTRAL REGION

A+ Azimuth = 210

Sets marked * include zero shift and/or rotation corrections.

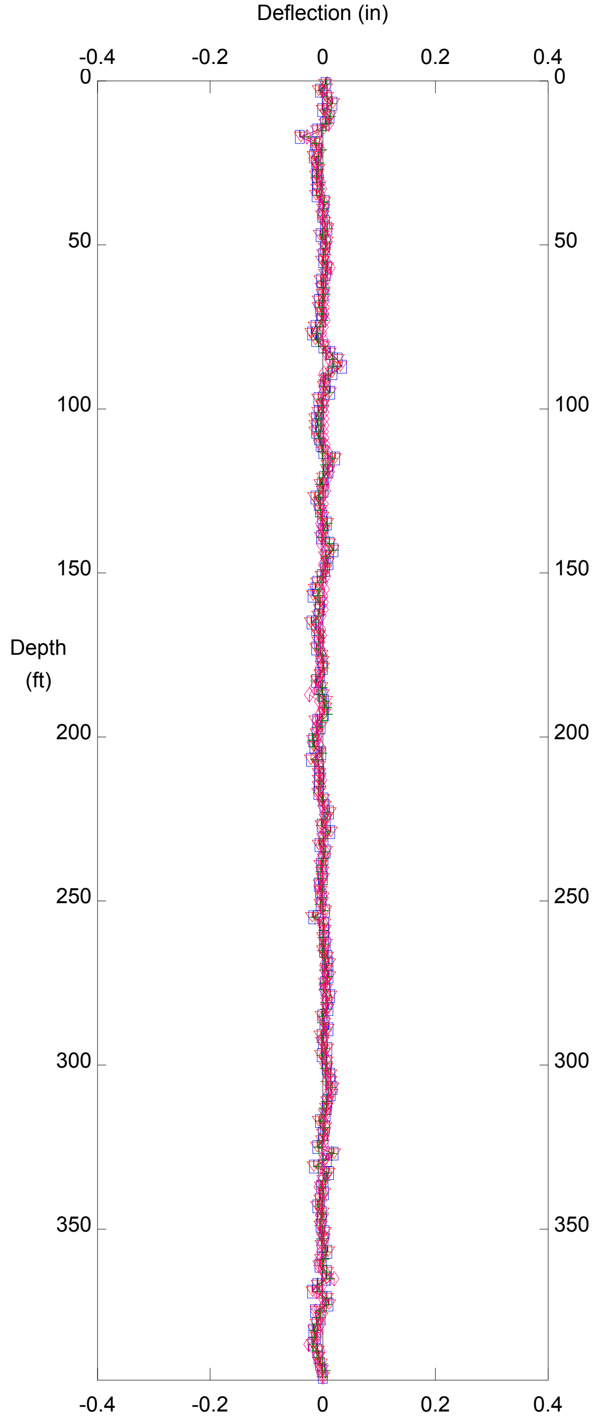
O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP34.GTL

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

BRM, Inclinometer SP35

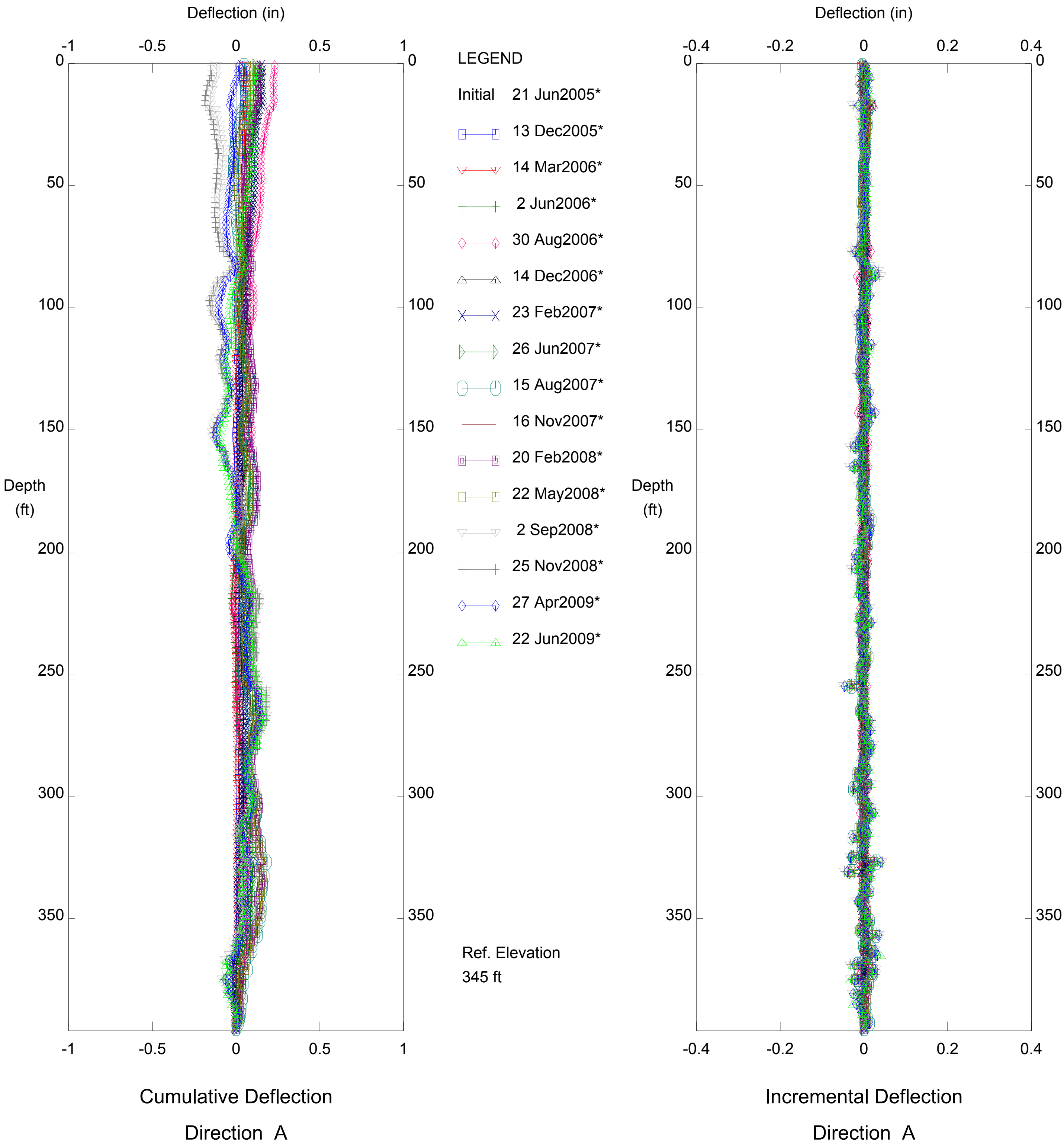
CENTRAL REGION

A+ Azimuth = 184

Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP35.GTL

Fugro West, Inc. - Ventura, CA



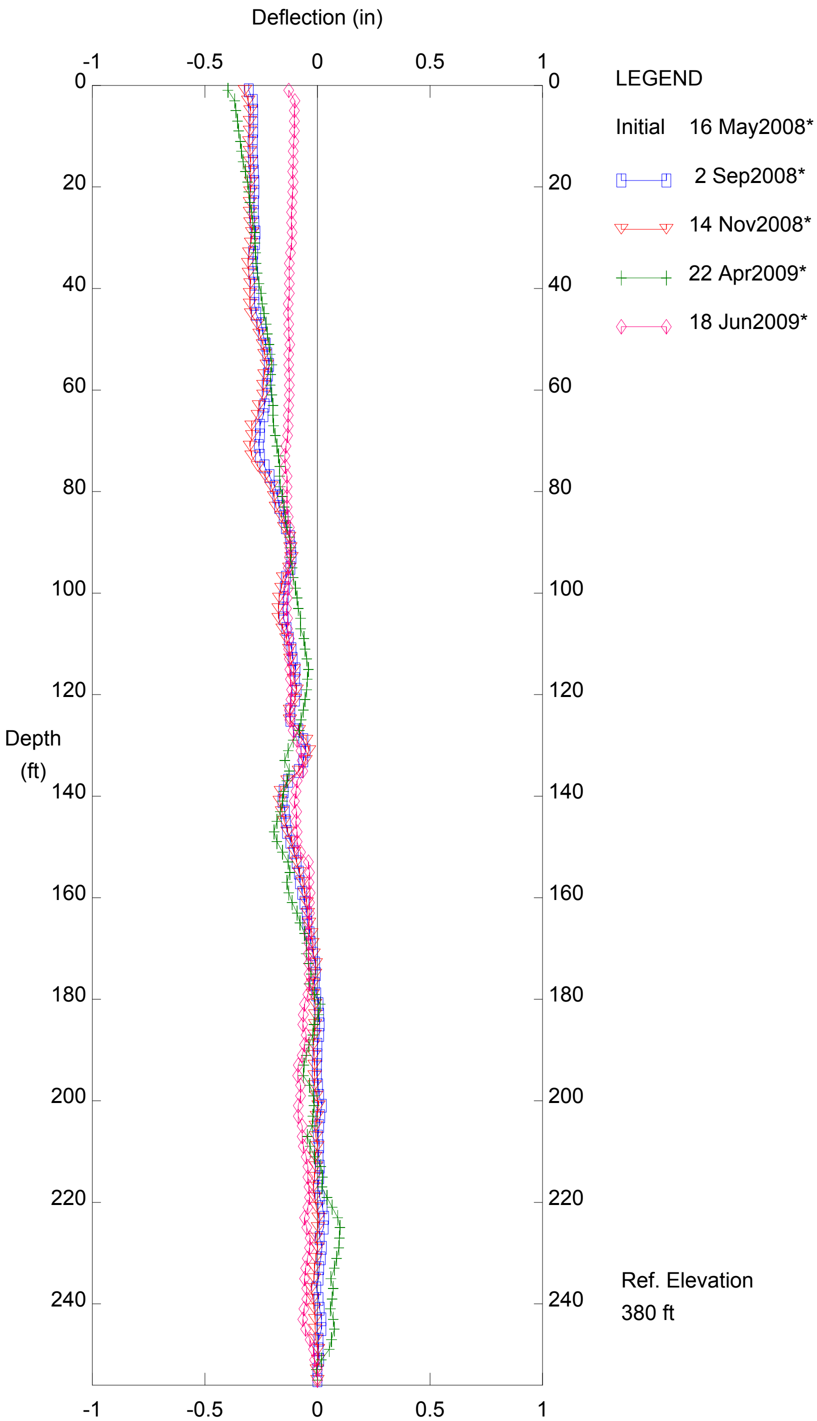
BRM, Inclinometer SP35

CENTRAL REGION

A+ Azimuth = 184

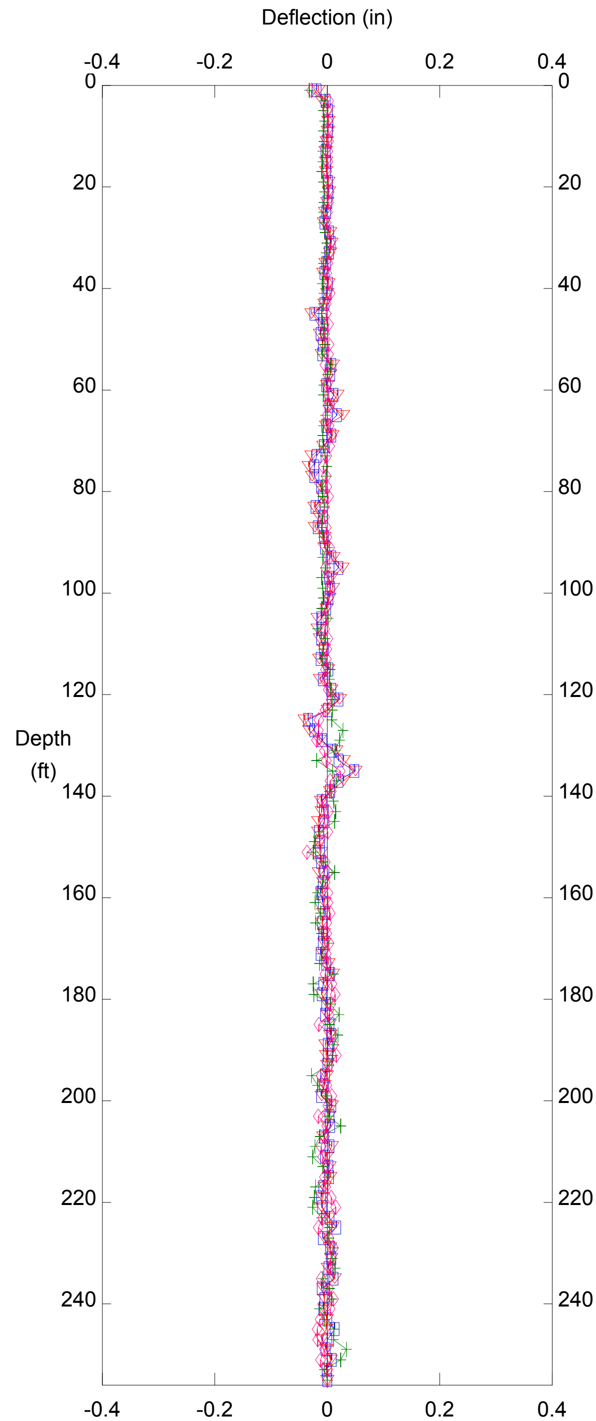
Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

BRM, Inclinometer SP36

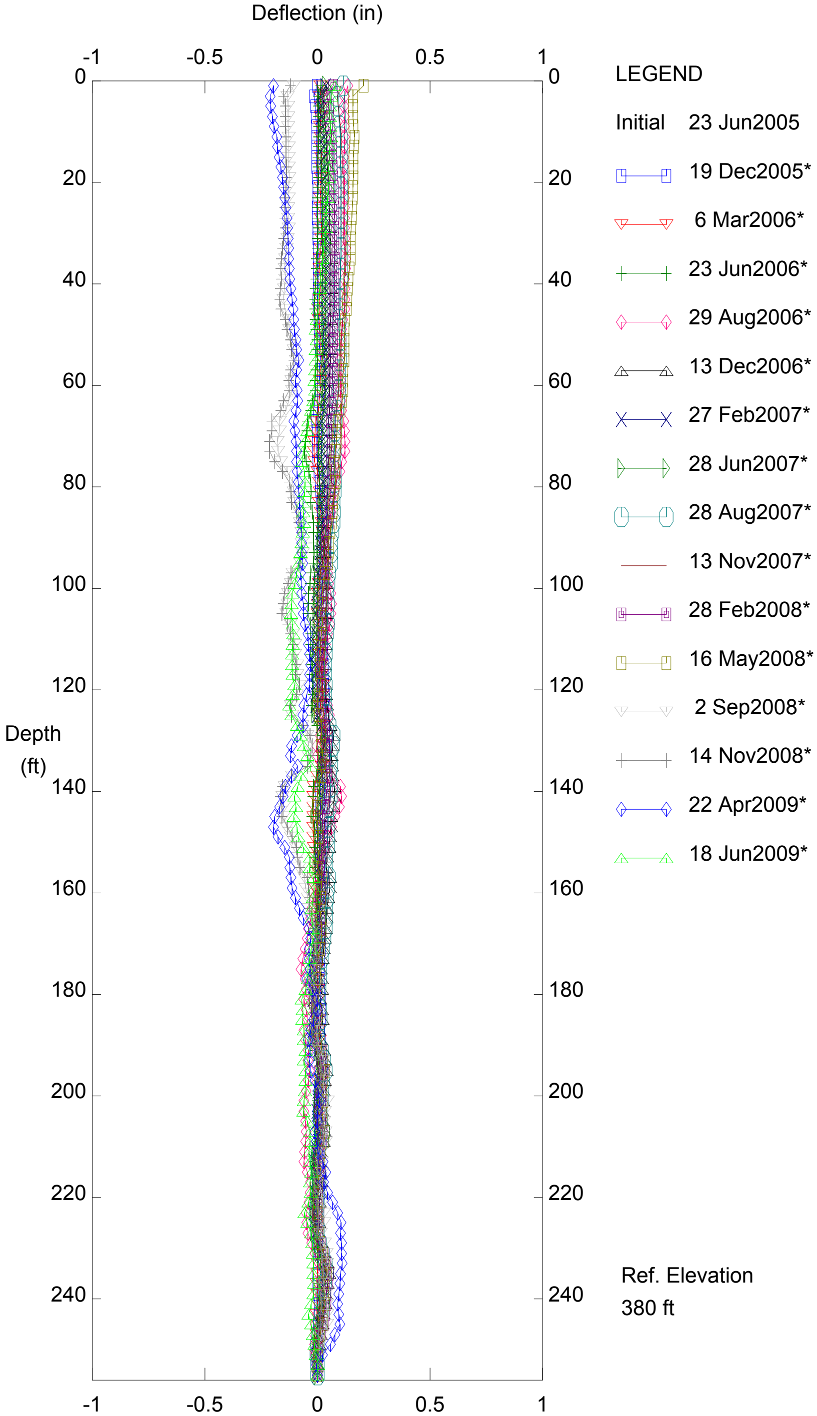
CENTRAL REGION

A+ Azimuth = 164

Sets marked * include zero shift and/or rotation corrections.

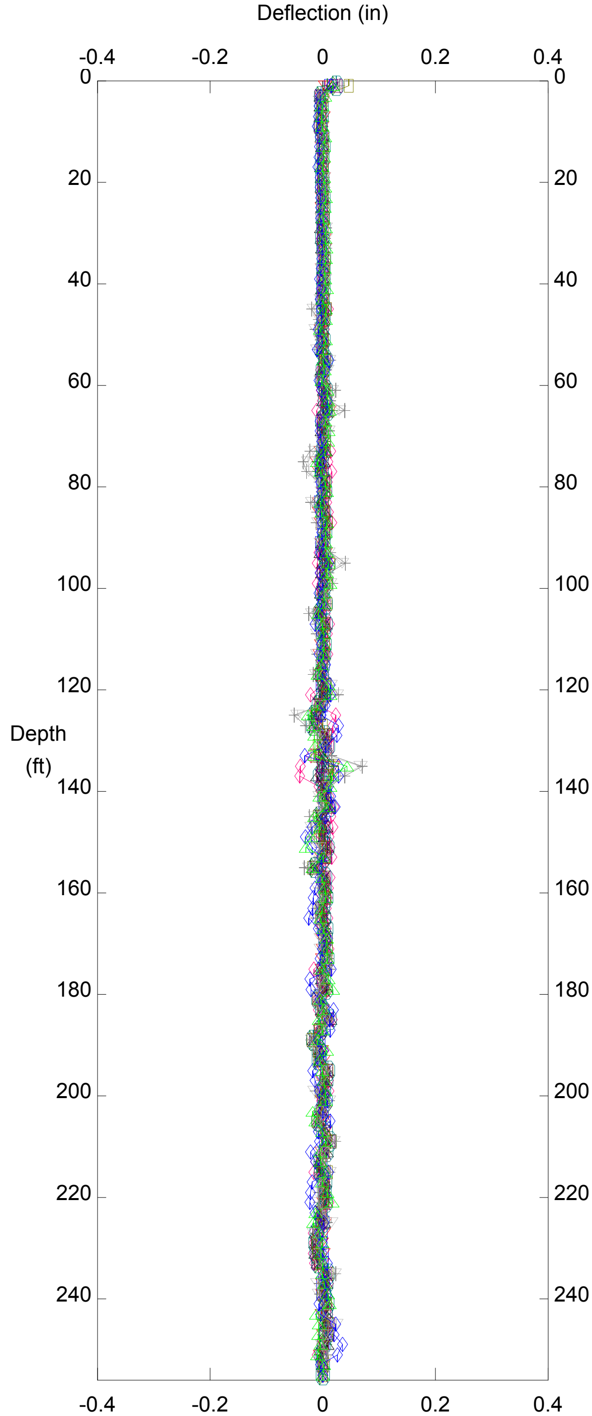
Big Rock Mesa Landslide Assessment District, City of Malibu
Project No. 3399.006

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

BRM, Inclinometer SP36

CENTRAL REGION

A+ Azimuth = 164

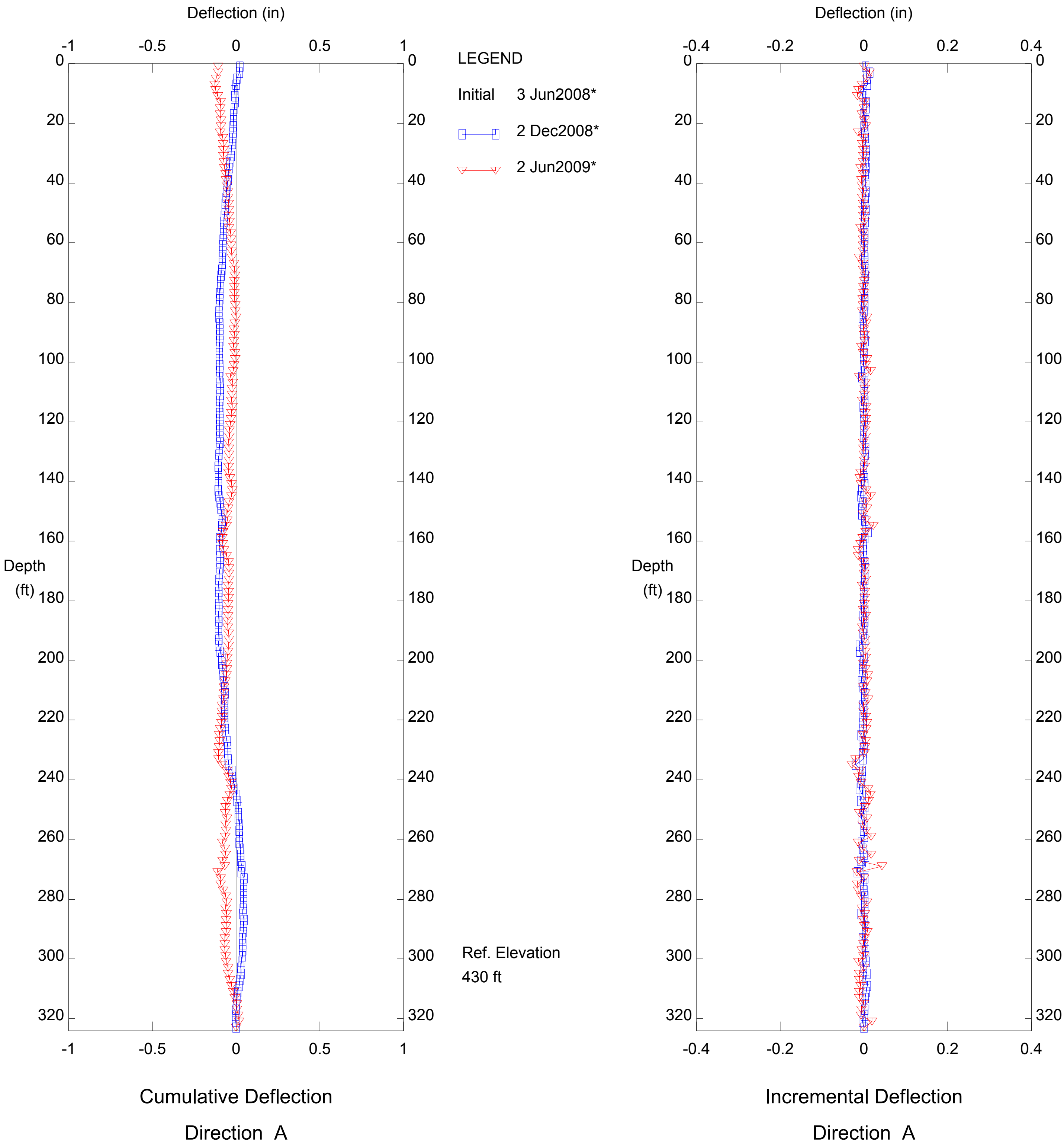
Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP36.GTL

PLATE D-24b

Big Rock Mesa Landslide Assessment District, City of Malibu
Project No. 3399.006

Fugro West, Inc. - Ventura, CA



BRM, Inclinometer SP20

WESTERN REGION

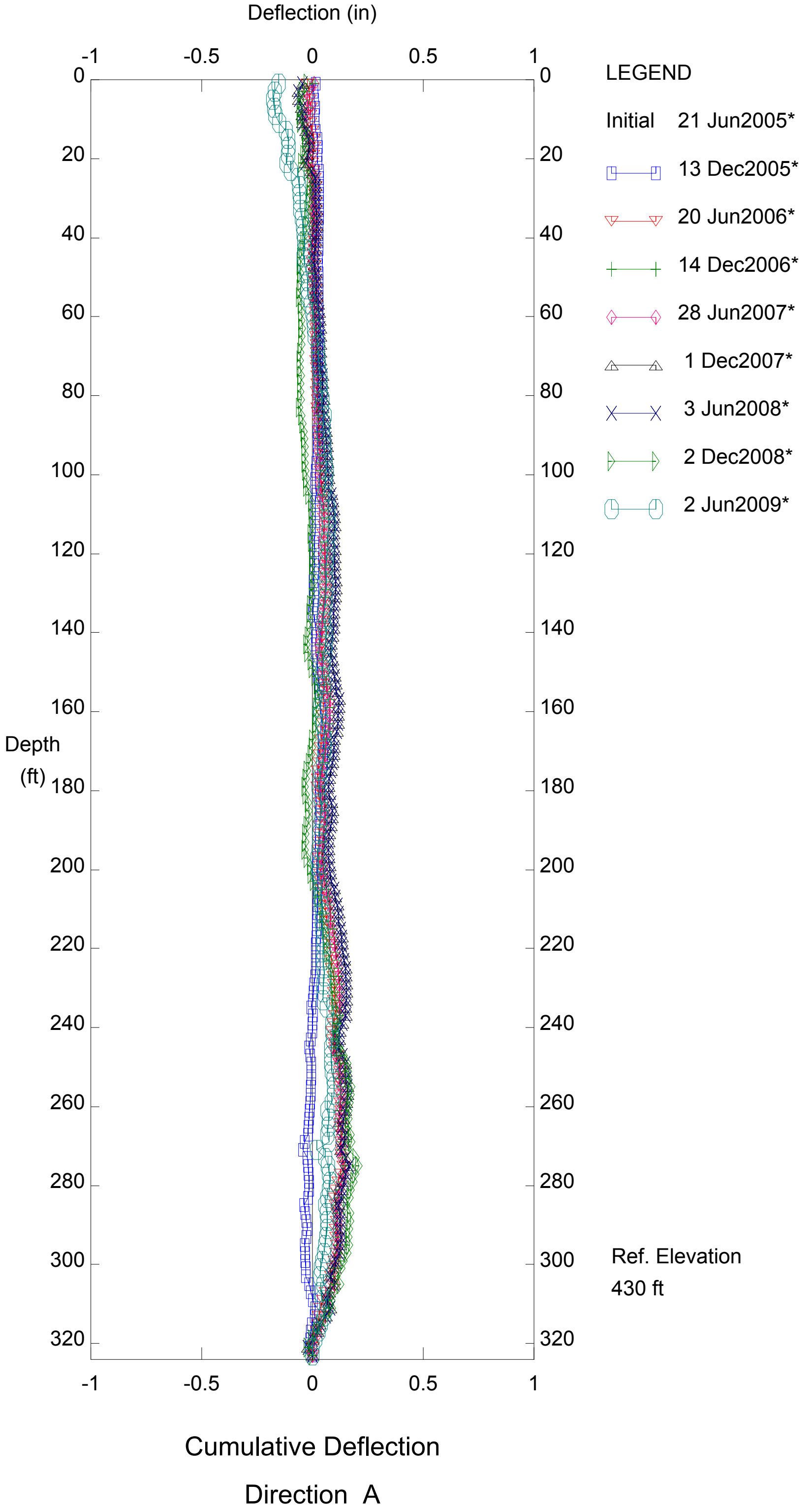
A+ Azimuth = 1

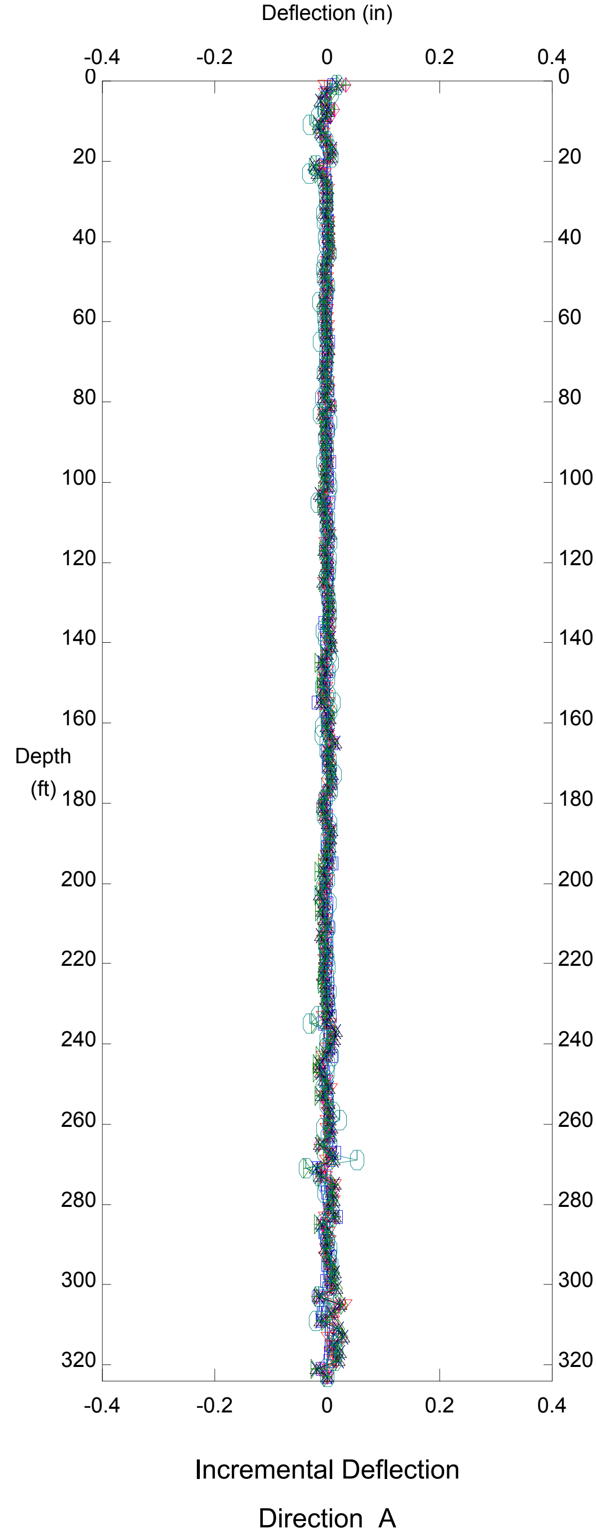
Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP20.GTL

PLATE D-25a

Fugro West, Inc. - Ventura, CA





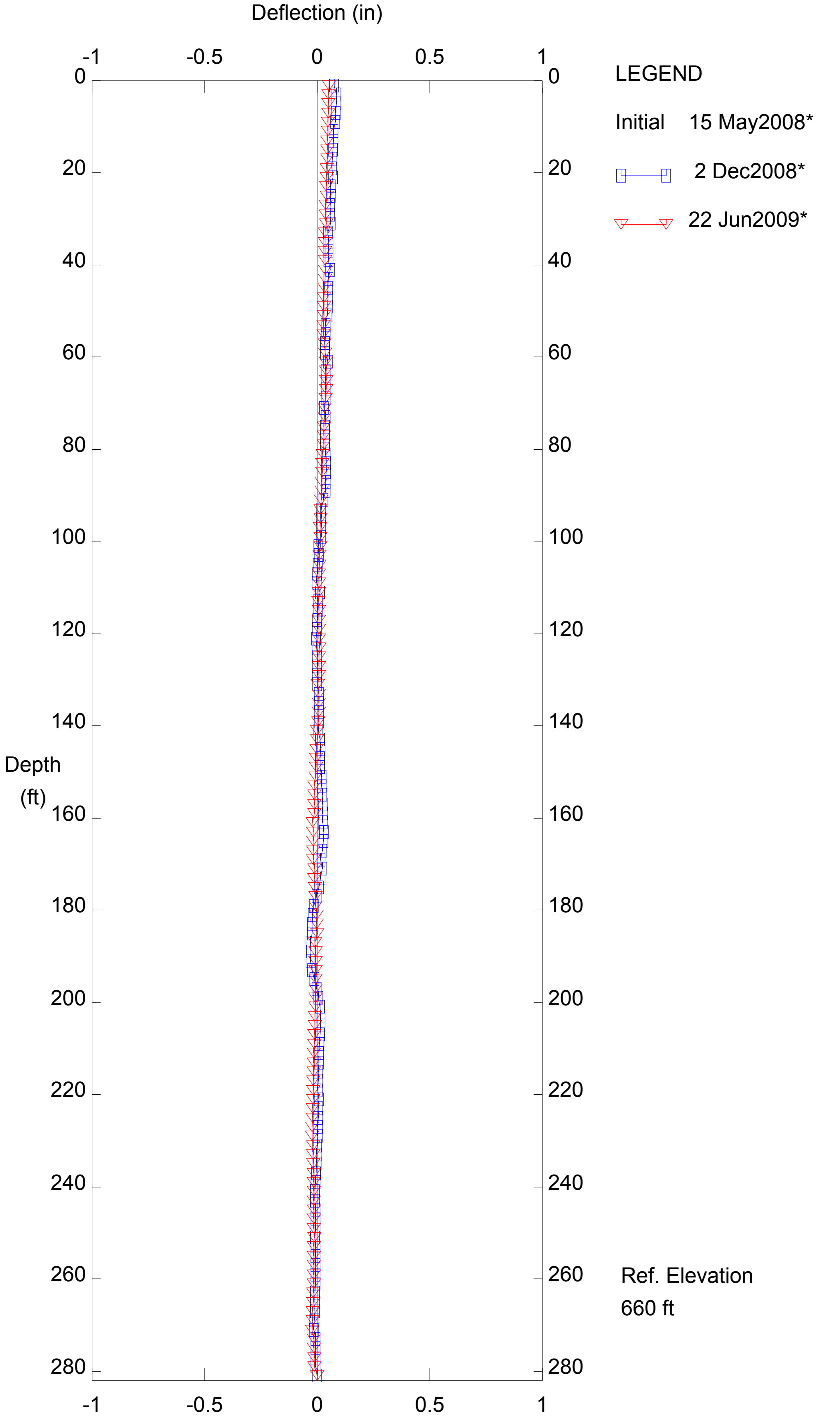
BRM, Inclinometer SP20

WESTERN REGION

A+ Azimuth = 1

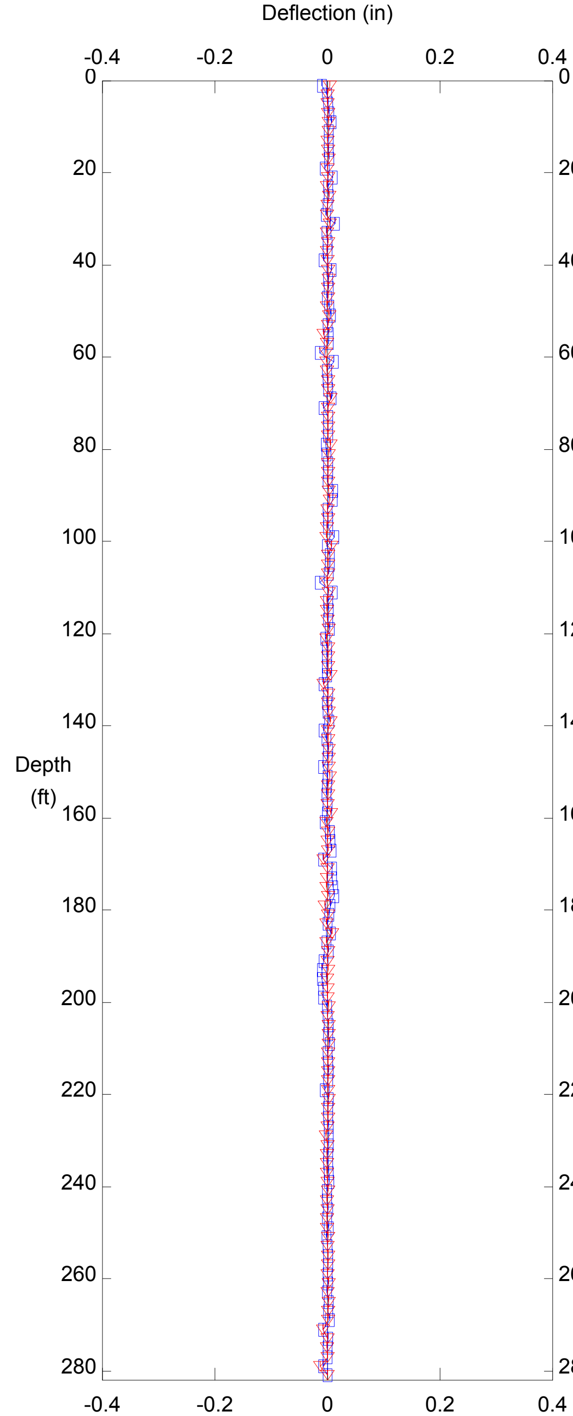
Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

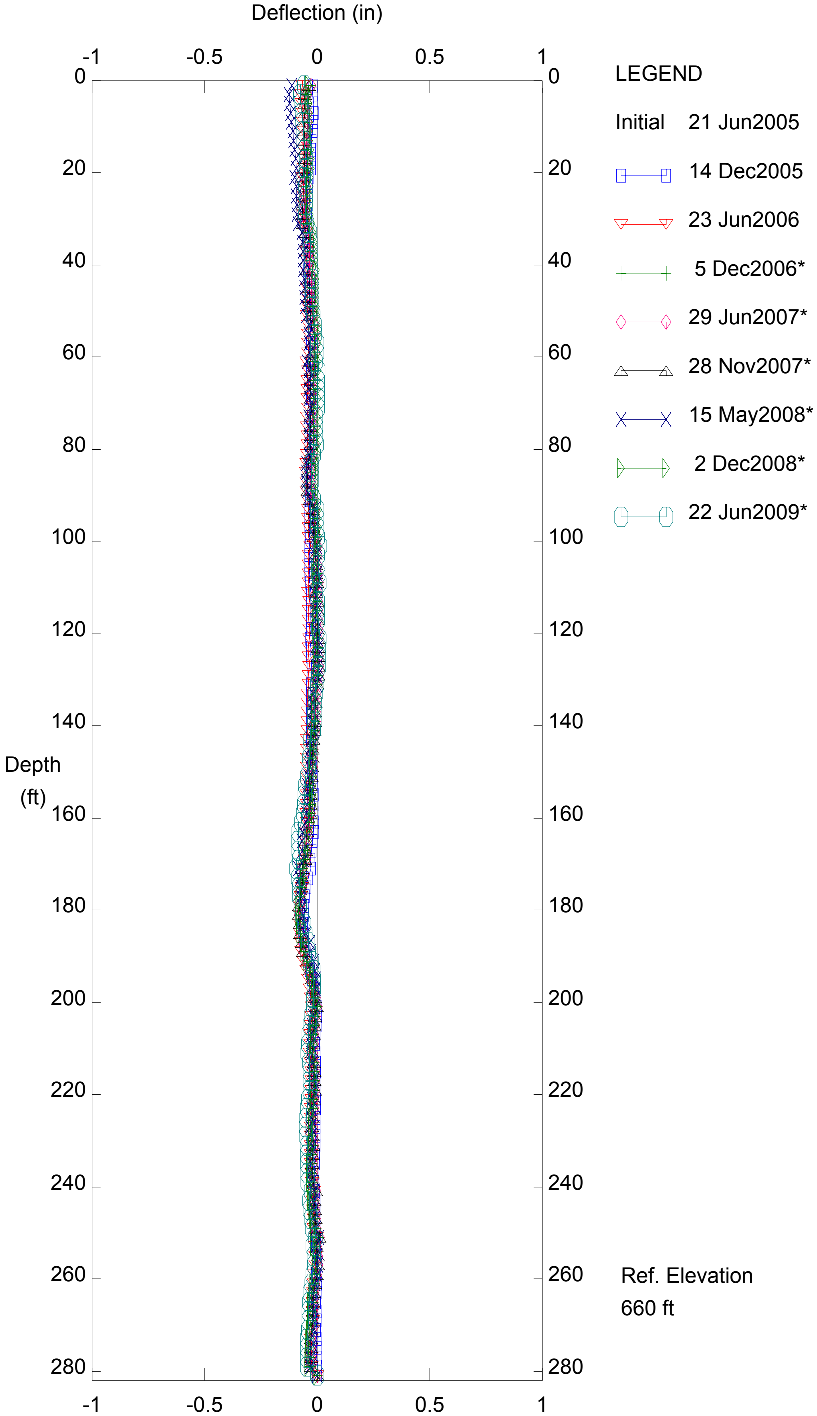
BRM, Inclinometer SP21

WESTERN REGION

A+ Azimuth = 300

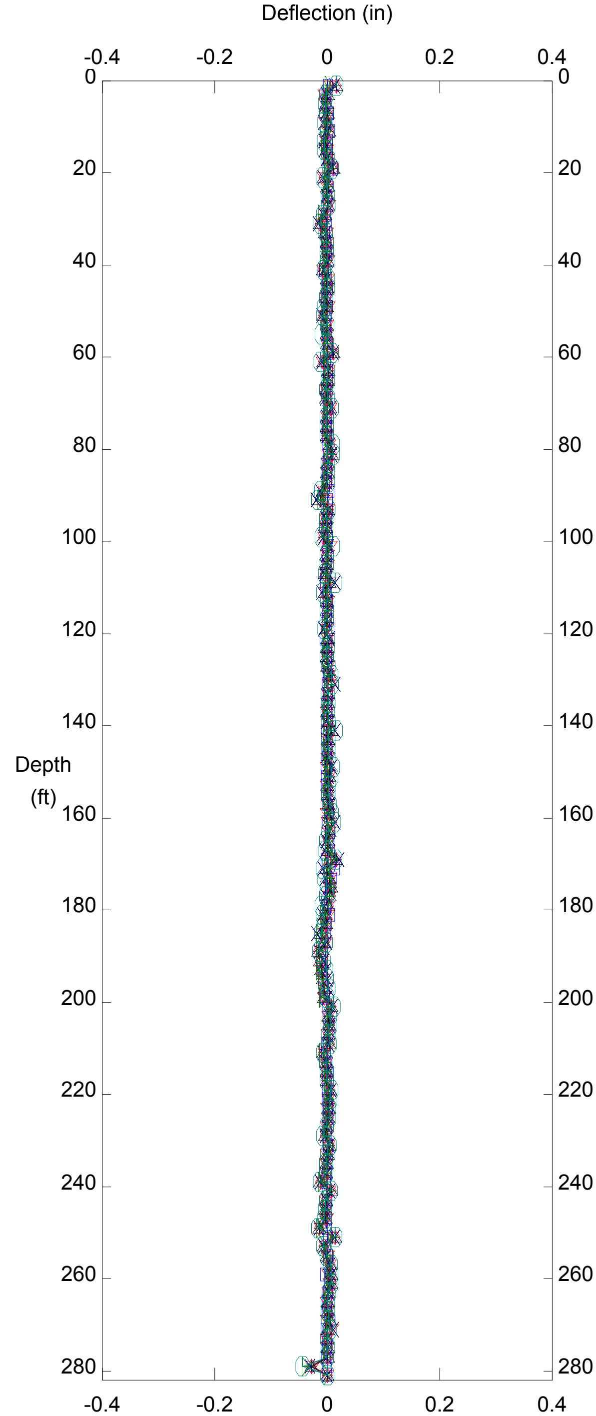
Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A



Incremental Deflection

Direction A

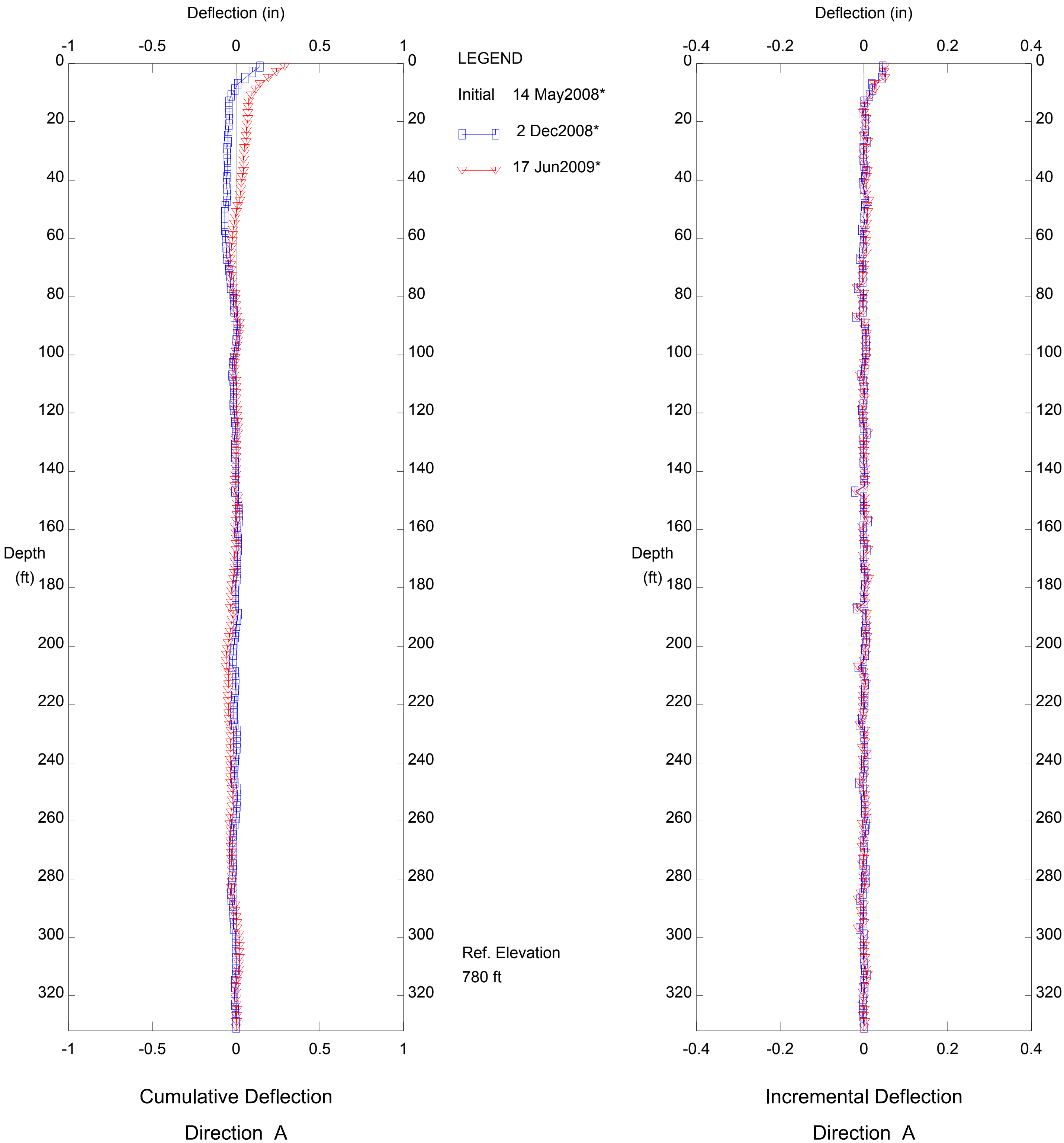
BRM, Inclinometer SP21

WESTERN REGION

A+ Azimuth = 300

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



BRM, Inclinometer SP22

WESTERN REGION

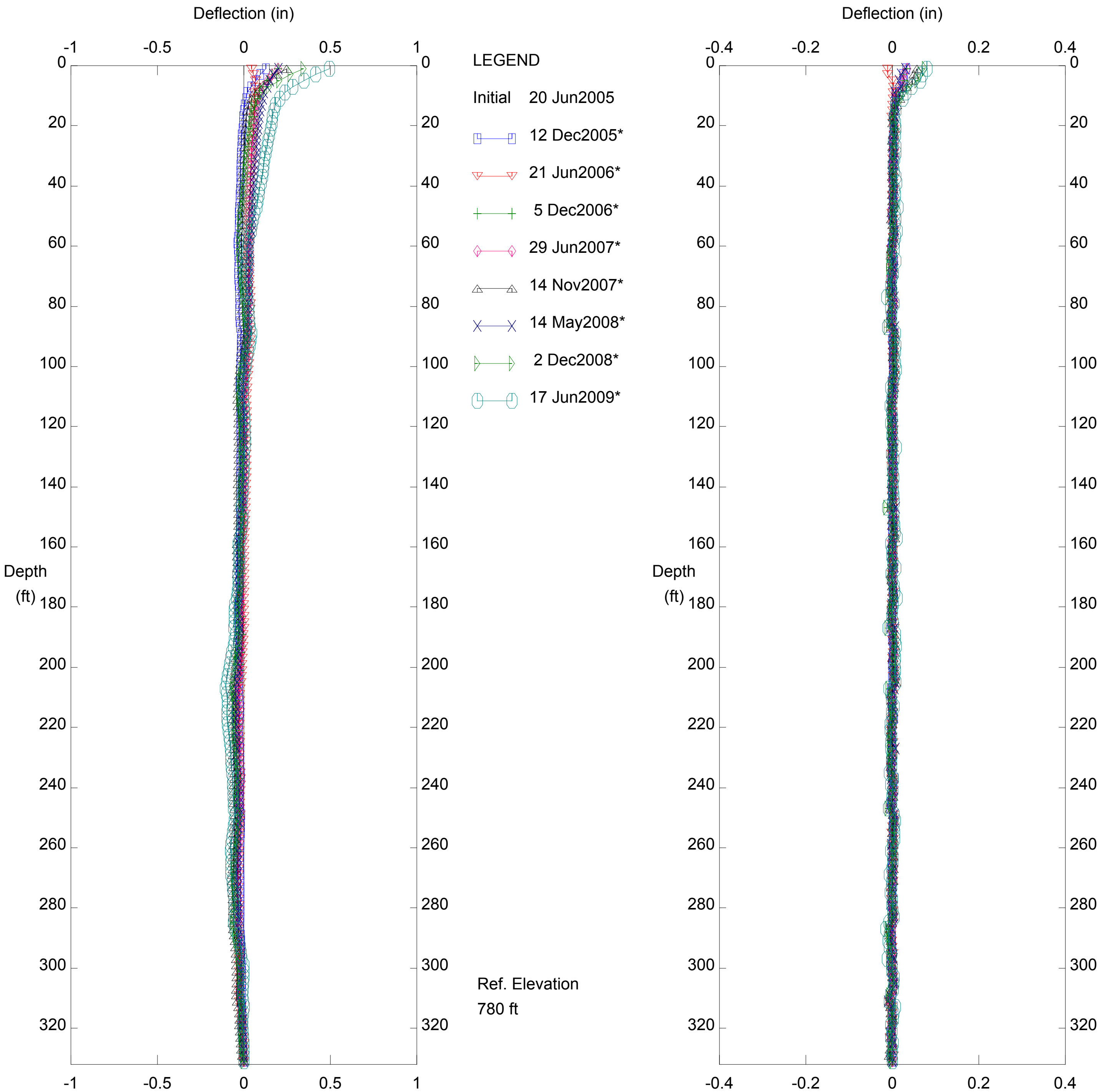
A+ Azimuth = 345

Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP22.GTL

PLATE D-27a

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A

Incremental Deflection

Direction A

BRM, Inclinometer SP22

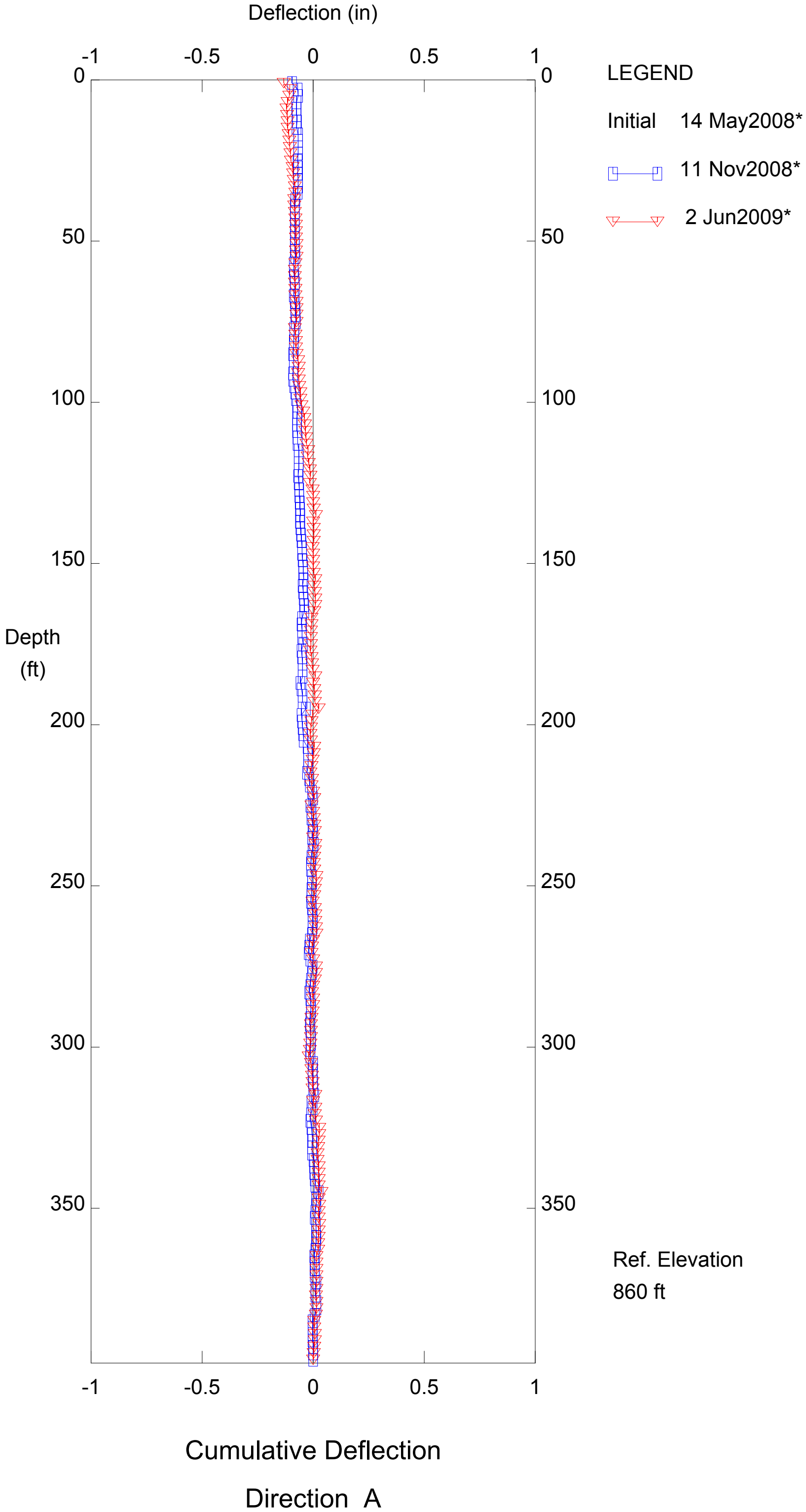
WESTERN REGION

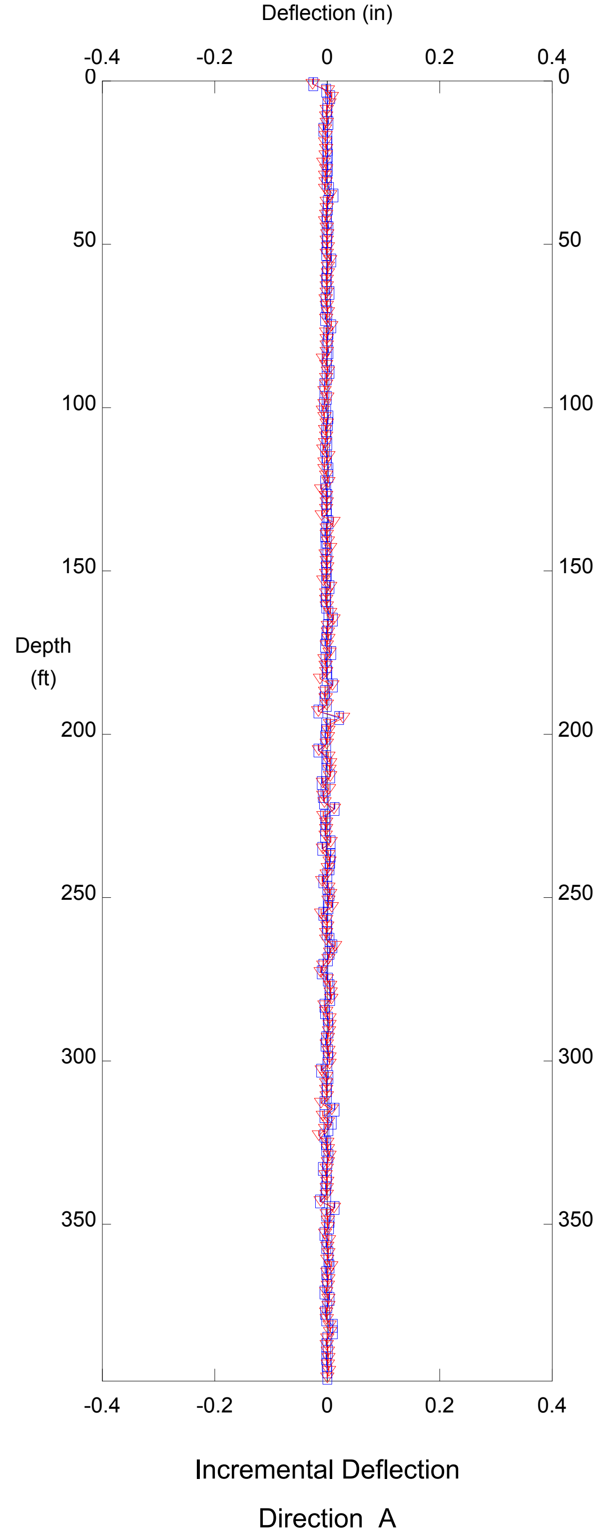
A+ Azimuth = 345

Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP22.GTL

Fugro West, Inc. - Ventura, CA





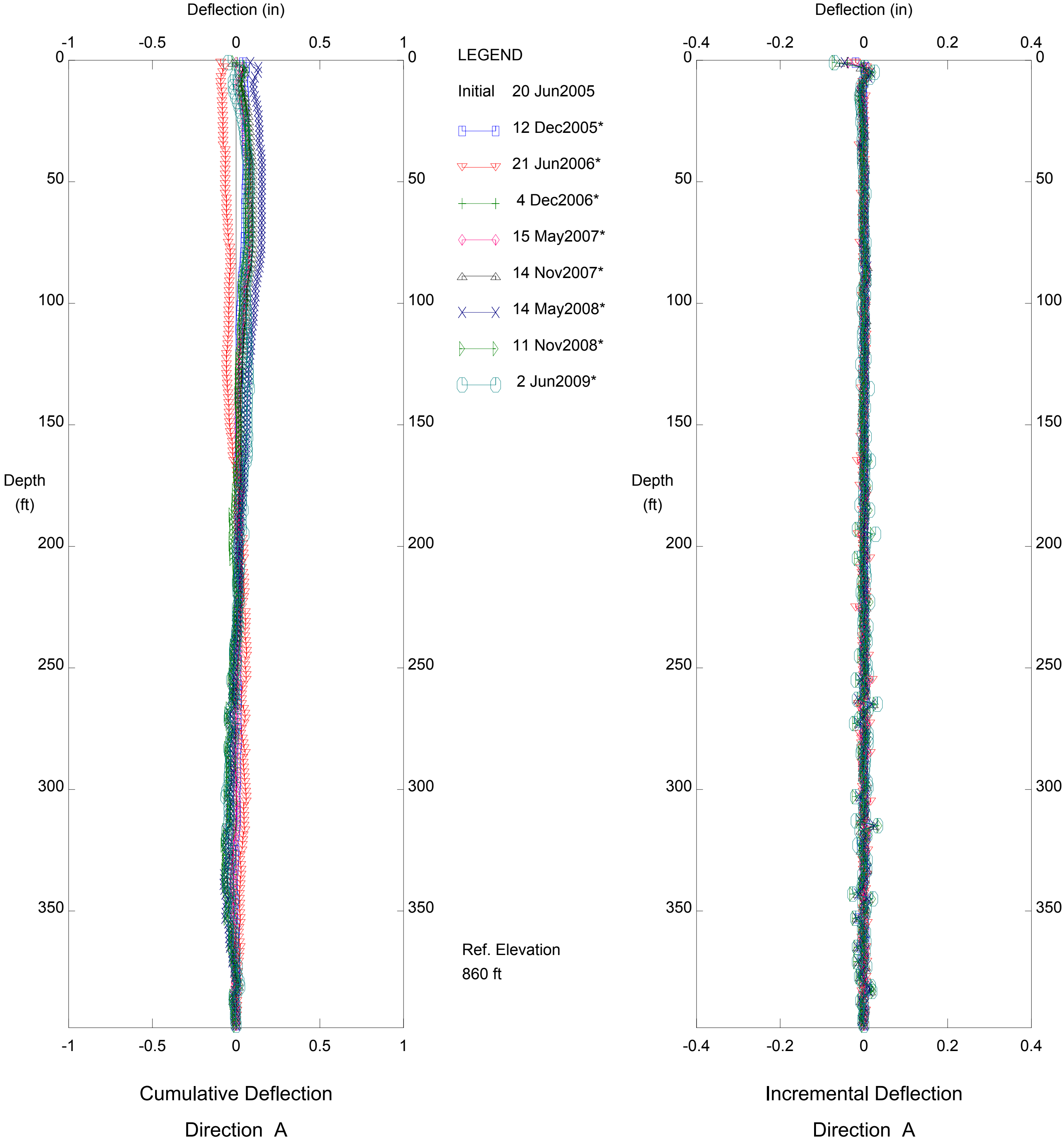
BRM, Inclinometer SP23

WESTERN REGION

A+ Azimuth = 5

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



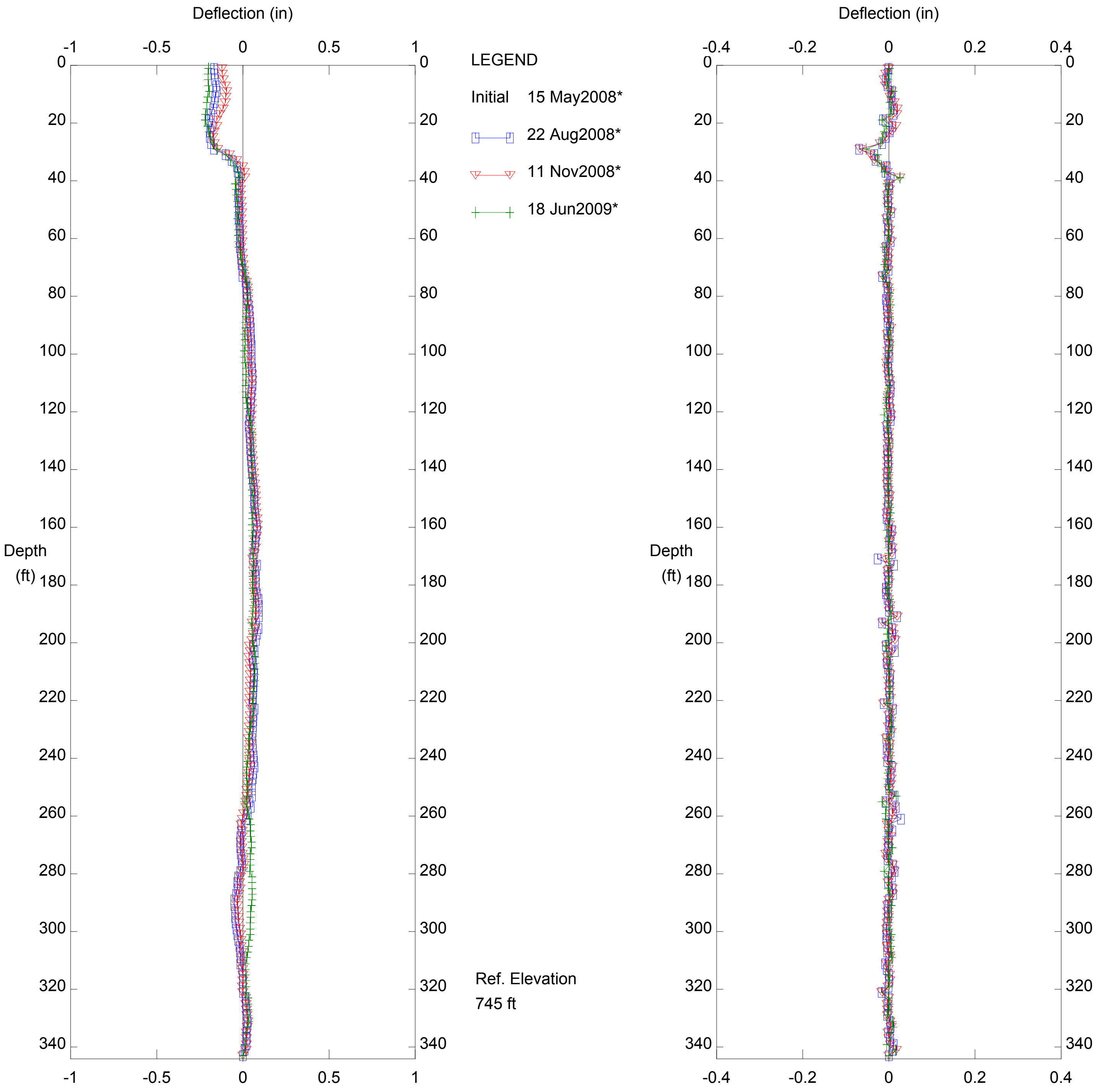
BRM, Inclinometer SP23

WESTERN REGION

A+ Azimuth = 5

Sets marked * include zero shift and/or rotation corrections.

Fugro West, Inc. - Ventura, CA



Cumulative Deflection

Direction A

Incremental Deflection

Direction A

BRM, Inclinometer SP26

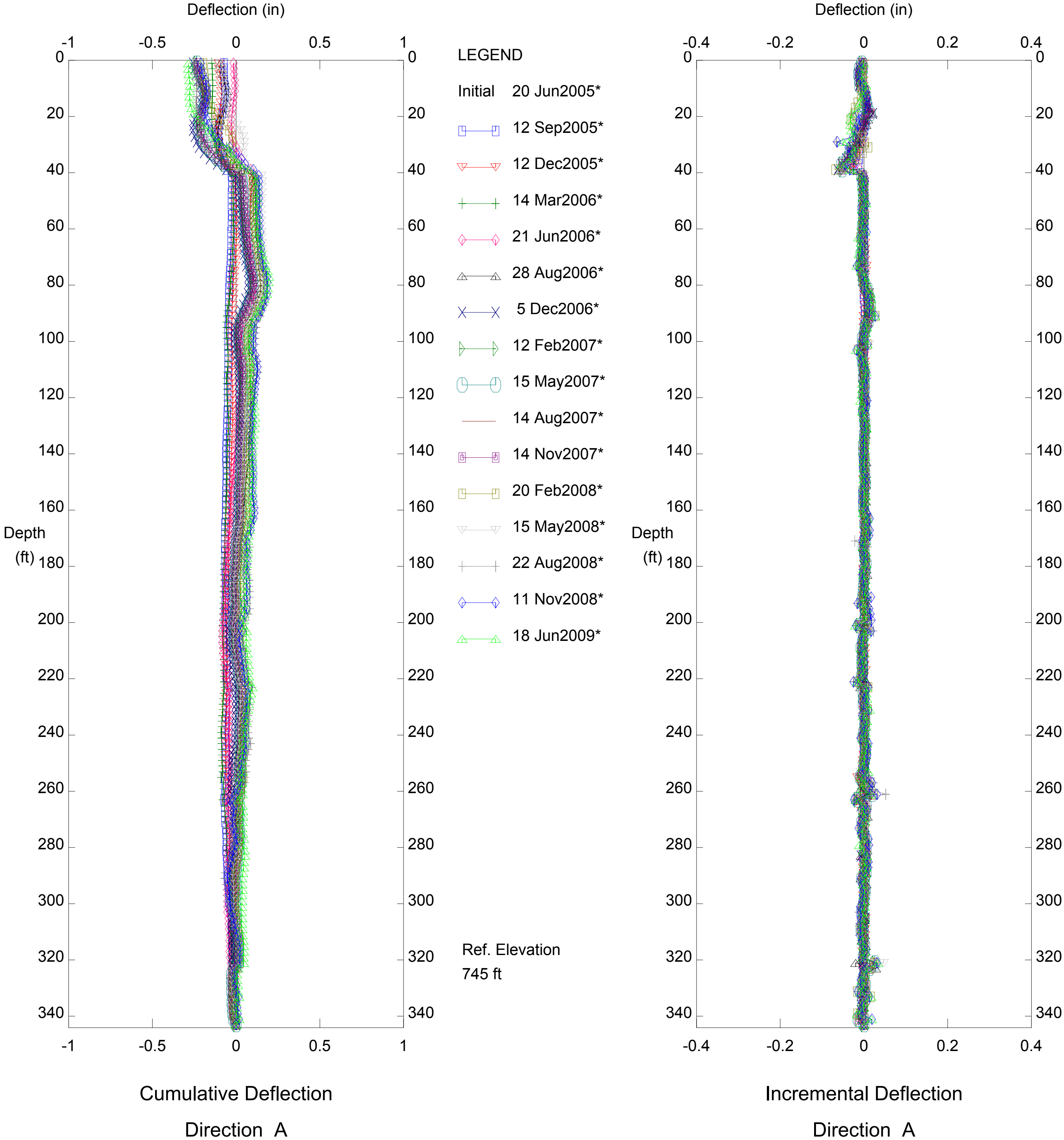
HEADSCARP REGION

A+ Azimuth = 45

Sets marked * include zero shift and/or rotation corrections.

O:\MANAGE~1\3399_M~1\333862~1\03_DATA\SIDATA~1\SP26.GTL

Fugro West, Inc. - Ventura, CA



BRM, Inclinometer SP26

HEADSCARP REGION

A+ Azimuth = 45

Sets marked * include zero shift and/or rotation corrections.

APPENDIX E
WATER QUALITY TESTING

TABLE 1 - SUMMARY OF ANALYTICAL DATA

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)												
	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Phenols	Sulfides	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity
Units:		*pH units*	*°F*	*mg/L*	*mg/L*	*mg/L*	*mL/L*			*mg/L*	*mg/L*	*NTU*	*% Survival*
PORT 1													
9/10/2008	BYA-6	6.8	71.8	--	--	--	--			--	--	--	--
8/26/2008	BYA-6	6.8	71.8	BQL	BQL	BQL	0.1			BQL	28	1.9	--
7/3/2008	BYA-6	6.6	73.0	--	--	--	--			--	--	--	--
6/10/2008	HD-42	6.9	68.7	--	--	--	--			--	--	--	--
5/19/2008	HD-42	7.0	70.5	BQL	BQL	BQL	BQL			BQL	BQL	1.5	--
4/4/2008	HD-42	6.8	68.5	--	--	--	--			--	--	--	--
3/12/2008	BYA-12	7.4	71.1	--	--	--	--			--	--	--	--
2/21/2008	BYA-12	7.6	70.9	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
1/3/2008	BYA-12	7.2	69.3	--	--	--	--			--	--	--	--
6/5/2007	HD-42	6.8	70.0	--	--	--	--			--	--	--	--
5/16/2007	HD-42	6.9	69.6	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
3/15/2007	BYA-6	6.5	69.8	--	--	--	--			--	--	--	--
2/28/2007	BYA-6	6.8	68.7	BQL	BQL	BQL	BQL			BQL	BQL	0.4	--
1/11/2007	BYA-6	7	70.9	--	--	--	--			--	--	--	--
12/21/2006	HD-33	7.6	69.1	--	--	--	--			--	--	--	--
12/21/2006	BYA-5	7.7	72.9	--	--	--	--			--	--	--	--
11/28/2006	HD-33	7.6	72.9	BQL	BQL	BQL	BQL			BQL	BQL	0.1	95
11/28/2006	BYA-5	6.7	72.3	BQL	BQL	BQL	BQL			BQL	12	6.4	95
10/20/2006	HD-33	7.7	72.1	--	--	--	--			--	--	--	--
10/20/2006	BYA-5	8.1	74.1	--	--	--	--			--	--	--	--
12/22/2005	BYA-12	7.3	66.2	--	--	--	--			--	--	--	--
12/22/2005	HD-33	7.3	69.6	--	--	--	--			--	--	--	--
11/28/2005	BYA-12	7.8	71.1	BQL	BQL	6.5	BQL			BQL	BQL	0.4	100
11/28/2005	HD-33	7.0	71.1	BQL	0.13	11	BQL			BQL	BQL	0.2	95
10/20/2005	BYA-12	7.3	66.2	--	--	--	--			--	--	--	--
10/20/2005	HD-33	7.3	69.6	--	--	--	--			--	--	--	--
9/1/2005	BYA-6B	7.7	76.5	--	--	--	--			--	--	--	--
8/24/2005	BYA-6B	7.7	75.6	BQL	BQL	BQL	BQL			BQL	BQL	0.8	--
7/29/2005	BYA-6B	7.6	74.8	--	--	--	--			--	--	--	--
3/21/2005	BYA-6	7.1	70.2	--	--	--	--			--	--	--	--
2/28/2005	BYA-6	7.1	68.2	BQL	BQL	BQL	BQL			BQL	BQL	0.1	--
1/27/2005	BYA-6	7.1	65.7	--	--	--	--			--	--	--	--
12/17/2004	HD-33	7.5	69.8	--	--	--	--			--	--	--	--
11/17/2004	HD-33	7.5	--	BQL	BQL	3.9	BQL			BQL	BQL	0.1	100
10/21/2004	HD-33	7.9	72.5	--	--	--	--			--	--	--	--
9/21/2004		7.3	80.1	--	--	--	--			--	--	--	--
8/25/2004		7.1	78.1	BQL	BQL	BQL	BQL			BQL	BQL	0.4	--
7/30/2004		7	77.0	--	--	--	--			--	--	--	--
6/30/2004		8	73.9	--	--	--	--			--	--	--	--
5/27/2004		7.5	72.0	BQL	BQL	BQL	BQL			BQL	BQL	BQL	--
PORT 1A													
12/17/2008	BYA-14	6.8	66.9	BQL	--	BQL	BQL	--	--		6	4.5	--
11/19/2008	BYA-14	6.9	73.4	BQL	BQL	BQL	BQL	BQL	BQL		1.2	0.8	95
10/6/2008	BYA-14	6.9	73.2	--	--	--	--			--	--	--	--
9/10/2008	FW-1	7.3	76.8	--	--	--	--			--	--	--	--
8/26/2008	FW-1	7.5	81.5	BQL	BQL	BQL	BQL			BQL	BQL	0.5	--
7/3/2008	FW-1	7.5	73.8	--	--	--	--			--	--	--	--
12/11/2007	BYA-14	6.7	69.6	--	--	--	--			--	--	--	--
11/26/2007	BYA-14	7.2	71.4	BQL	BQL	BQL	BQL			BQL	BQL	1.3	100
10/5/2007	BYA-14	6.8	73.0	--	--	--	--			--	--	--	--
12/21/2006	BYA-14	7.0	69.1	--	--	--	--			--	--	--	--
11/28/2006	BYA-14	6.8	72.3	BQL	BQL	BQL	BQL			BQL	BQL	0.1	100

PLATE E-1

TABLE 1 - SUMMARY OF ANALYTICAL DATA

Date Sampled	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Phenols	Sulfides	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity
	INORGANIC NON-METALS (Aqueous Matrix)												
Units:		pH units	°F	mg/L	mg/L	mg/L	mL/L			mg/L	mg/L	NTU	% Survival
10/20/2006	BYA-14	7.6	79.2	--	--	--	--			--	--	--	--
12/17/2004	BYA-14	7.1	70.2	--	--	--	--			--	--	--	--
11/17/2004	BYA-14	7.1	--	BQL	BQL	BQL	BQL			BQL	BQL	0.3	100
10/21/2004	BYA-14	7.2	71.1	--	--	--	--			--	--	--	--
9/21/2004		7.6	79.0	--	--	--	--			--	--	--	--
8/25/2004		8.2	75.9	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
7/30/2004		8	75.0	--	--	--	--			--	--	--	--
6/30/2004		**9**	70.0	--	--	--	--			--	--	--	--
5/27/2004		8.2	66.0	BQL	BQL	BQL	BQL			BQL	10	0.3	--
						PORT 2							
6/10/2008	HD-41	6.7	68.5	--	--	--	--			--	--	--	--
6/10/2008	HD-29	7	69.1	--	--	--	--			--	--	--	--
5/19/2008	HD-41	7.0	70.5	BQL	BQL	BQL	BQL			BQL	BQL	0.4	--
5/19/2008	HD-29	7.4	72.3	BQL	BQL	BQL	BQL			BQL	BQL	23.0	--
4/4/2008	HD-41	6.7	68.5	--	--	--	--			--	--	--	--
4/4/2008	HD-29	7.0	68.7	--	--	--	--			--	--	--	--
9/11/2007	BYA-H8	7.0	74.5	--	--	--	--			--	--	--	--
8/22/2007	BYA-H8	7.5	74.3	BQL	BQL	BQL	BQL			BQL	BQL	0.3	--
7/6/2007	BYA-H8	7.0	74.5	--	--	--	--			--	--	--	--
3/15/2007	HD-9	6.8	69.4	--	--	--	--			--	--	--	--
2/28/2007	HD-9	7.2	69.8	BQL	BQL	BQL	BQL			BQL	BQL	0.4	--
1/11/2007	HD-9	7.4	69.3	--	--	--	--			--	--	--	--
9/20/2006	HD-41	7.4	71.1	--	--	--	--			--	--	--	--
8/24/2006	HD-41	7.0	70.2	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
7/25/2006	HD-41	7.3	70.0	--	--	--	--			--	--	--	--
6/22/2006	BYA-7	7.5	76.1	--	--	--	--			--	--	--	--
5/18/2006	BYA-7	7.6	65.8	BQL	BQL	BQL	BQL			BQL	BQL	0.7	--
4/25/2006	HD-41	7.3	68.5	--	--	--	--			--	--	--	--
3/16/2006	HD-9	7.4	70.0	--	--	--	--			--	--	--	--
2/21/2006	HD-9	7.3	70.2	BQL	BQL	BQL	BQL			BQL	BQL	0.3	--
1/27/2006	HD-9	7.4	69.8	--	--	--	--			--	--	--	--
9/1/2005	BYA-H8	7.7	73.2	--	--	--	--			--	--	--	--
8/24/2005	BYA-H8	7.9	74.1	BQL	BQL	1.1	BQL			BQL	BQL	0.9	--
7/29/2005	BYA-H8	**9**	74.1	--	--	--	--			--	--	--	--
6/29/2005	HD-41	7.1	69.1	--	--	--	--			--	--	--	--
5/17/2005	HD-41	7.1	69.8	BQL	BQL	BQL	BQL			BQL	10	0.8	--
4/19/2005	HD-41	7.2	69.4	--	--	--	--			--	--	--	--
3/21/2005	HD-9	7.5	70.3	--	--	--	--			--	--	--	--
2/28/2005	HD-9	7.4	70.3	BQL	BQL	BQL	BQL			BQL	BQL	0.6	--
1/27/2005	HD-9	7.5	69.4	--	--	--	--			--	--	--	--
12/17/2004	W-17	7.5	70.9	--	--	--	--			--	--	--	--
11/17/2004	W-17	7.2	--	BQL	BQL	BQL	BQL			BQL	BQL	BQL	100
10/21/2004	HD-9	7.5	72.3	--	--	--	--			--	--	--	--
9/21/2004		7.5	75.9	--	--	--	--			--	--	--	--
8/25/2004		7.3	75.9	BQL	BQL	BQL	BQL			BQL	BQL	0.1	--
7/30/2004		8	71.1	--	--	--	--			--	--	--	--
6/30/2004		**9**	72.0	--	--	--	--			--	--	--	--
5/27/2004		7.3	69.1	BQL	BQL	BQL	BQL			BQL	BQL	BQL	--
						PORT 3							
12/29/2008	W-2	--	--	--	--	--	--	--	--		--	--	95
12/17/2008	W-2	6.6	68.0	BQL	--	BQL	BQL	--	--		BQL	2.4	
12/17/2008	BYA-H10	6.9	67.5	BQL	--	BQL	BQL	--	--		BQL	2.4	--
11/19/2008	W-2	6.7	70.0	BQL	BQL	BQL	BQL	BQL	BQL		1.2	5.0	85

PLATE E-1

TABLE 1 - SUMMARY OF ANALYTICAL DATA

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)												
	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Phenols	Sulfides	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity
Units:		*pH units*	*°F*	*mg/L*	*mg/L*	*mg/L*	*mL/L*			*mg/L*	*mg/L*	*NTU*	*% Survival*
11/19/2008	BYA-H10	7.1	71.2	BQL	BQL	BQL	BQL	BQL	BQL		1.2	0.5	100
10/6/2008	W-2	6.7	70.3	--	--	--	--			--	--	--	--
10/6/2008	BYA-H10	7.0	71.8	--	--	--	--			--	--	--	--
9/10/2008	BYA-13	6.6	73.0	--	--	--	--			--	--	--	--
9/10/2008	HD-4	6.9	73.2	--	--	--	--			--	--	--	--
9/10/2008	HD-30	6.9	71.6	--	--	--	--			--	--	--	--
8/26/2008	BYA-13	6.7	72.3	BQL	BQL	BQL	BQL			BQL	15	2.4	--
8/26/2008	HD-4	7.2	72.1	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
8/26/2008	HD-30	7.2	72.1	BQL	BQL	BQL	BQL			BQL	BQL	0.1	--
7/3/2008	BYA-13	6.6	73.0	--	--	--	--			--	--	--	--
7/3/2008	HD-4	6.9	73.6	--	--	--	--			--	--	--	--
7/3/2008	HD-30	6.9	72.5	--	--	--	--			--	--	--	--
6/10/2008	BYA-H10	7.0	71.4	--	--	--	--			--	--	--	--
6/10/2008	W-3	6.8	69.6	--	--	--	--			--	--	--	--
5/19/2008	BYA-H10	7.2	72.0	BQL	BQL	BQL	BQL			BQL	BQL	0.3	--
5/19/2008	W-3	6.9	71.2	BQL	BQL	BQL	BQL			BQL	BQL	0.5	--
4/4/2008	BYA-H10	6.9	70.2	--	--	--	--			--	--	--	--
4/4/2008	W-3	6.6	70.2	--	--	--	--			--	--	--	--
3/12/2008	HD-30	7.1	70.5	--	--	--	--			--	--	--	--
2/21/2008	HD-30	7.4	70.3	BQL	BQL	BQL	BQL			BQL	BQL	0.1	--
1/3/2008	HD-30	6.9	68.5	--	--	--	--			--	--	--	--
12/11/2007	W-2	6.5	68.7	--	--	--	--			--	--	--	--
12/11/2007	BYA-H10	6.7	69.8	--	--	--	--			--	--	--	--
11/26/2007	W-2	7.1	69.6	BQL	BQL	BQL	BQL			BQL	BQL	0.5	100
11/26/2007	BYA-H10	7.6	71.1	BQL	BQL	BQL	BQL			BQL	BQL	0.2	100
10/5/2007	W-2	6.6	69.8	--	--	--	--			--	--	--	--
10/5/2007	BYA-H10	6.8	70.9	--	--	--	--			--	--	--	--
9/27/2007	W-2	--	--	--	--	--	--			--	BQL	--	--
9/27/2007	W-3	--	--	--	--	--	--			--	BQL	--	--
9/25/2007	BYA-13	--	--	--	--	--	--			--	BQL	--	--
9/24/2007	HD-30	--	--	--	--	--	--			--	BQL	--	--
9/24/2007	HD-43	--	--	--	--	--	--			--	BQL	--	--
9/24/2007	HD-4	--	--	--	--	--	--			--	BQL	--	--
9/24/2007	H-1	--	--	--	--	--	--			--	BQL	--	--
9/24/2007	BYA-H10	--	--	--	--	--	--			--	BQL	--	--
8/22/2007	HD-30	7.2	72.7	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
8/22/2007	W-1	--	--	--	--	--	--			**0.2**	--	--	--
8/22/2007	W-2	--	--	--	--	--	--			**0.35**	--	--	--
8/22/2007	W-3	--	--	--	--	--	--			**0.5**	--	--	--
8/22/2007	BYA-13	--	--	--	--	--	--			BQL	--	--	--
8/22/2007	HD-43	--	--	--	--	--	--			BQL	--	--	--
8/22/2007	HD-4	--	--	--	--	--	--			BQL	--	--	--
8/22/2007	BYA-H10	--	--	--	--	--	--			BQL	--	--	--
7/16/2007	W-1	--	--	--	--	--	--			BQL	--	--	--
7/6/2007	HD-30	6.8	72.5	--	--	--	--			--	--	--	--
6/25/2007	W-1	--	--	--	--	--	--			BQL	--	--	--
6/5/2007	BYAH-10	6.9	70.7	--	--	--	--			--	--	--	--
6/5/2007	W-1	6.6	70.9	--	--	--	--			--	--	--	--
5/16/2007	HD-43	7.7	72.3	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
5/16/2007	BYAH-10	7.1	70.5	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
5/16/2007	W-1	6.8	69.8	BQL	BQL	BQL	BQL			**0.4**	BQL	2.1	
4/12/2007	HD-4	7.4	71.1	--	--	--	--			--	--	--	--
4/12/2007	BYAH-10	6.9	70.5	--	--	--	--			--	--	--	--
4/12/2007	W-1	6.5	69.3	--	--	--	--			--	--		

PLATE E-1

TABLE 1 - SUMMARY OF ANALYTICAL DATA

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)												
	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Phenols	Sulfides	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity
Units:		*pH units*	*°F*	*mg/L*	*mg/L*	*mg/L*	*mL/L*			*mg/L*	*mg/L*	*NTU*	*% Survival*
3/15/2007	BYA-13	**6.4**	70.7	--	--	--	--			--	--	--	--
3/15/2007	HD-30	7	69.6	--	--	--	--			--	--	--	--
2/28/2007	BYA-13	6.8	69.6	BQL	BQL	BQL	BQL			BQL	BQL	0.6	--
2/28/2007	HD-30	7.4	70.0	BQL	BQL	BQL	BQL			BQL	BQL	0.4	--
1/11/2007	BYA-13	6.8	69.3	--	--	--	--			--	--	--	--
1/11/2007	HD-30	7.5	68.5	--	--	--	--			--	--	--	--
12/21/2006	W-2	6.7	68.5	--	--	--	--			--	--	--	--
12/1/2006	H-1	--	--	--	--	--	--			--	--	0.37	--
11/28/2006	W-2	6.6	70.5	BQL	BQL	BQL	BQL			BQL	BQL	0.1	95
11/22/2006	Port 3	--	--	--	--	--	--			--	--	0.31	--
11/22/2006	H-1	--	--	--	--	--	--			--	--	2.4	--
11/10/2006	H-1	--	--	--	--	--	--			--	--	**57.0**	--
11/3/2006	H-1	--	--	--	--	--	--			--	--	**55.0**	--
10/20/2006	W-2	8	71.8	--	--	--	--			--	--	--	--
9/20/2006	W-1	8.3	72.0	--	--	--	--			--	--	--	--
9/20/2006	BYA-H10	7.8	71.8	--	--	--	--			--	--	--	--
9/20/2006	H-1	7.7	74.7	--	--	--	--			--	--	--	--
8/24/2006	W-1	7.1	71.8	BQL	BQL	BQL	BQL			BQL	7.2	4.9	--
8/24/2006	BYA-H10	7.4	73.2	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
8/24/2006	H-1	7.5	74.5	BQL	BQL	BQL	BQL			BQL	BQL	**60.0**	--
7/25/2006	W-1	7.3	75.2	--	--	--	--			--	--	--	--
7/25/2006	BYA-H10	7.6	72.5	--	--	--	--			--	--	--	--
7/25/2006	H-1	7.6	73.4	--	--	--	--			--	--	--	--
6/22/2006	HD-30	7.4	70.5	--	--	--	--			--	--	--	--
5/18/2006	HD-30	7.4	72.0	BQL	BQL	BQL	BQL			BQL	BQL	0.4	--
4/25/2006	H-1	7.6	67.5	--	--	--	--			--	--	--	--
4/25/2006	BYA-H10	7.6	70.3	--	--	--	--			--	--	--	--
4/25/2006	W-1	7.3	70.5	--	--	--	--			--	--	--	--
3/16/2006	HD-30	7.5	70.5	--	--	--	--			--	--	--	--
3/16/2006	W-3	7.4	69.3	--	--	--	--			--	--	--	--
2/21/2006	HD-30	7.3	70.5	BQL	BQL	BQL	BQL			BQL	BQL	0.3	--
2/21/2006	W-3	7.0	71.8	BQL	BQL	BQL	BQL			BQL	BQL	1.0	--
1/27/2006	HD-30	7.4	70.2	--	--	--	--			--	--	--	--
1/27/2006	W-3	7.4	69.3	--	--	--	--			--	--	--	--
12/22/2005	W-2	7	70.2	--	--	--	--			--	--	--	--
12/22/2005	BYA-H10	7.5	70.3	--	--	--	--			--	--	--	--
11/28/2005	W-2	6.7	73.4	BQL	BQL	3.5	BQL			BQL	BQL	0.2	100
11/28/2005	BYA-H10	7.1	71.6	BQL	BQL	5.1	BQL			BQL	BQL	0.2	100
10/20/2005	W-1	7	71.8	--	--	--	--			--	--	--	--
10/20/2005	BYA-H10	7.3	70.2	--	--	--	--			--	--	--	--
9/1/2005	BYA-H10	7.2	71.1	--	--	--	--			--	--	--	--
9/1/2005	HD-30	7.1	71.1	--	--	--	--			--	--	--	--
9/1/2005	HD-4	7.3	72.0	--	--	--	--			--	--	--	--
8/24/2005	BYA-H10	7.5	71.6	BQL	BQL	BQL	BQL			BQL	BQL	0.5	--
8/24/2005	HD-30	7.3	71.6	BQL	BQL	1.7	BQL			BQL	BQL	1.0	--
8/24/2005	HD-4	7.6	72.7	BQL	BQL	BQL	BQL			BQL	BQL	0.6	--
7/29/2005	BYA-H10	7.5	71.8	--	--	--	--			--	--	--	--
7/29/2005	HD-30	7.3	71.8	--	--	--	--			--	--	--	--
7/29/2005	HD-4	8.4	81.1	--	--	--	--			--	--	--	--
6/29/2005	BYA-H10	7.5	71.1	--	--	--	--			--	--	--	--
6/29/2005	W-1	7.4	73.8	--	--	--	--			--	--	--	--
5/17/2005	BYA-H10	7.4	71.4	BQL	BQL	BQL	BQL			BQL	BQL	0.3	--
5/17/2005	HD-4	7.2	69.3	BQL	BQL	1.1	BQL			BQL	BQL	0.2	--
4/19/2005	BYAH-10	7.5	70.9	--	--	--	--			--	--		

TABLE 1 - SUMMARY OF ANALYTICAL DATA

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)												
	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Phenols	Sulfides	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity
Units:		pH units	^{o}F	mg/L	mg/L	mg/L	mL/L			mg/L	mg/L	NTU	% Survival
4/19/2005	W-1	7.2	74.3	--	--	--	--			--	--	--	--
3/21/2005	BYA-13	8.3	66.6	--	--	--	--			--	--	--	--
3/21/2005	HD-30	7.3	70.7	--	--	--	--			--	--	--	--
2/28/2005	BYA-13	8.2	67.1	BQL	BQL	BQL	BQL			BQL	BQL	0.3	--
2/28/2005	H-1	7.3	70.5	BQL	BQL	BQL	BQL			BQL	BQL	3.2	--
1/27/2005	BYA-13	7.3	67.8	--	--	--	--			--	--	--	--
1/27/2005	HD-30	7.5	70.2	--	--	--	--			--	--	--	--
12/17/2004	W-2	7.6	68.2	--	--	--	--			--	--	--	--
11/17/2004	BYA-H10	7.4	--	BQL	BQL	BQL	BQL			BQL	BQL	BQL	100
10/21/2004	HD-30	7.7	72.7	--	--	--	--			--	--	--	--
9/21/2004		8.2	77.0	--	--	--	--			--	--	--	--
8/25/2004		8.2	75.9	BQL	BQL	BQL	BQL			BQL	6	4.2	--
7/30/2004		8	79.0	--	--	--	--			--	--	--	--
6/30/2004		**9**	71.1	--	--	--	--			--	--	--	--
5/27/2004		7.5	70.0	BQL	0.2	BQL	BQL			BQL	10	0.7	--
PORT 4													
12/17/2008	BYA-7	7.2	67.5	BQL	--	BQL	BQL	--	--		2	21.0	--
12/17/2008	HD-26	6.9	68.7	BQL	--	BQL	BQL	--	--		BQL	0.7	
11/19/2008	BYA-7	7.3	70.5	BQL	BQL	BQL	BQL	BQL	BQL		2.4	7.2	100
11/19/2008	HD-26	7.0	71.4	BQL	BQL	BQL	BQL	BQL	BQL		2	0.5	95
10/6/2008	BYA-7	7.2	71.6	--	--	--	--			--	--	--	--
10/6/2008	HD-26	6.9	72.3	--	--	--	--			--	--	--	--
9/10/2008	BYA-1	6.6	75.4	--	--	--	--			--	--	--	--
8/26/2008	BYA-1	6.7	72.1	BQL	BQL	BQL	BQL			BQL	BQL	4.0	--
7/3/2008	BYA-1	6.6	76.6	--	--	--	--			--	--	--	--
6/10/2008	W-17	6.9	72.0	--	--	--	--			--	--	--	--
5/19/2008	W-17	7.1	72.5	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
4/4/2008	W-17	7	72.0	--	--	--	--			--	--	--	--
3/12/2008	HD-16	7.1	71.1	--	--	--	--			--	--	--	--
3/12/2008	W-8	6.5	70.7	--	--	--	--			--	--	--	--
2/21/2008	HD-16	7.3	67.3	BQL	BQL	BQL	BQL			BQL	BQL	3.0	--
2/21/2008	W-8	6.7	70.5	BQL	BQL	BQL	BQL			BQL	BQL	0.3	--
1/3/2008	HD-16	7.0	66.6	--	--	--	--			--	--	--	--
1/3/2008	W-8	6.5	68.9	--	--	--	--			--	--	--	--
9/11/2007	W-8	6.6	71.5	--	--	--	--			--	--	--	--
9/11/2007	BYA-1	6.6	73.6	--	--	--	--			--	--	--	--
8/22/2007	W-8	6.8	72.0	BQL	BQL	BQL	BQL			BQL	BQL	0.3	--
8/22/2007	BYA-1	6.8	72.5	BQL	BQL	BQL	BQL			BQL	BQL	6.3	--
7/6/2007	W-8	6.6	71.4	--	--	--	--			--	--	--	--
7/6/2007	BYA-1	6.6	72.3	--	--	--	--			--	--	--	--
6/5/2007	BYA-7	6.9	70.0	--	--	--	--			--	--	--	--
5/16/2007	BYA-7	7.1	69.8	BQL	BQL	BQL	BQL			BQL	BQL	0.4	--
4/12/2007	BYA-7	7	71.1	--	--	--	--			--	--	--	--
3/15/2007	W-8	**6.4**	71.1	--	--	--	--			--	--	--	--
3/15/2007	HD-15	6.6	71.2	--	--	--	--			--	--	--	--
2/28/2007	W-8	6.7	69.4	BQL	BQL	BQL	BQL			BQL	BQL	0.4	
2/28/2007	HD-15	6.9	71.8	BQL	BQL	BQL	BQL			BQL	BQL	3.8	
1/11/2007	W-8	6.8	71.1	--	--	--	--			--	--	--	--
1/11/2007	HD-15	7.1	69.8	--	--	--	--			--	--	--	--
12/21/2006	W-17	7.1	70.2	--	--	--	--			--	--	--	--
11/28/2006	W-17	6.9	72.0	BQL	BQL	BQL	BQL			BQL	BQL	0.3	100
10/20/2006	W-17	7.4	72.3	--	--	--	--			--	--	--	--
9/20/2006	HD-26	7.9	72.1	--	--	--	--			--	--	--	--
8/24/2006	HD-26	7.1	72.7	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
7/25/2006	HD-26	7.5	72.3	--	--	--	--			--	--	--	--
6/22/2006	BYA-1	7.0	76.6	--	--	--	--			--	--	--	--
6/22/2006	W-8	7.1	73.0	--	--	--	--			--	--		

TABLE 1 - SUMMARY OF ANALYTICAL DATA

Date Sampled	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Phenols	Sulfides	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity
	INORGANIC NON-METALS (Aqueous Matrix)												
Units:		pH units	°F	mg/L	mg/L	mg/L	mL/L			mg/L	mg/L	NTU	% Survival
5/18/2006	BYA-1	7.1	70.3	BQL	BQL	BQL	BQL			BQL	BQL	8.5	--
5/18/2006	W-8	7.2	70.0	BQL	BQL	BQL	BQL			BQL	BQL	0.7	--
4/25/2006	HD-26	7.5	70.3	--	--	--	--			--	--	--	--
3/16/2006	HD-15	7.4	71.6	--	--	--	--			--	--	--	--
3/16/2006	W-8	7.1	70.5	--	--	--	--			--	--	--	--
2/21/2006	HD-15	7.2	70.9	BQL	BQL	BQL	BQL			BQL	BQL	1.3	--
2/21/2006	W-8	7.3	69.8	BQL	BQL	BQL	BQL			BQL	BQL	0.5	--
1/27/2006	HD-15	7.3	71.4	--	--	--	--			--	--	--	--
1/27/2006	W-8	7.0	71.2	--	--	--	--			--	--	--	--
12/22/2005	W-17	7.4	70.7	--	--	--	--			--	--	--	--
11/28/2005	W-17	7	71.1	BQL	BQL	6.8	BQL			BQL	BQL	0.3	100
10/20/2005	W-17	7.3	70.2	--	--	--	--			--	--	--	--
9/1/2005	W-8	6.6	71.8	--	--	--	--			--	--	--	--
9/1/2005	HD-16	7.3	71.4	--	--	--	--			--	--	--	--
8/24/2005	W-8	7.2	73.0	BQL	BQL	1.5	BQL			BQL	BQL	0.6	--
8/24/2005	HD-16	7.5	72.1	BQL	BQL	1.2	BQL			BQL	BQL	3.0	--
7/29/2005	W-8	6.9	72.7	--	--	--	--			--	--	--	--
7/29/2005	HD-16	7.6	71.8	--	--	--	--			--	--	--	--
6/29/2005	BYA-1	7.6	74.3	--	--	--	--			--	--	--	--
5/17/2005	BYA-1	6.8	73.0	BQL	BQL	BQL	BQL			BQL	BQL	0.8	--
4/19/2005	BYA-1	7.2	72.0	--	--	--	--			--	--	--	--
3/21/2005	W-8	7.1	71.4	--	--	--	--			--	--	--	--
3/21/2005	HD-15	7.2	71.8	--	--	--	--			--	--	--	--
2/28/2005	W-8	7.1	70.9	BQL	BQL	BQL	BQL			BQL	BQL	0.3	--
2/28/2005	HD-15	7.1	71.1	BQL	BQL	1.1	BQL			BQL	BQL	2.1	--
1/27/2005	W-8	7.1	70.2	--	--	--	--			--	--	--	--
1/27/2005	HD-15	7.3	70.9	--	--	--	--			--	--	--	--
12/17/2004	HD-25	7.4	70.2	--	--	--	--			--	--	--	--
11/17/2004	HD-25	7.5	--	BQL	BQL	BQL	BQL			BQL	BQL	n.d	95
10/21/2004	HD-15	7.5	73.6	--	--	--	--			--	--	--	--
9/21/2004		8.2	77.0	--	--	--	--			--	--	--	--
8/26/2004		8.0	78.1	BQL	0.21	2	BQL			BQL	31	7.1	--
7/30/2004		9	79.0	--	--	--	--			--	--	--	--
6/30/2004		9	73.9	--	--	--	--			--	--	--	--
5/27/2004		8.1	73.0	BQL	BQL	BQL	BQL			BQL	BQL	1.0	--
						PORT 5							
12/29/2008	W-16	--	--	--	--	--	--	--	--		--	--	100
12/17/2008	W-16	6.6	69.1	BQL	--	BQL	BQL	--	--		BQL	1.1	--
12/17/2008	BYA-9	6.6	67.5	BQL	--	BQL	BQL	--	--		BQL	0.8	
11/19/2008	W-16	7.1	70.2	0.42	BQL	BQL	BQL	BQL	BQL		2	0.5	90
11/19/2008	BYA-9	6.6	72.7	BQL	BQL	BQL	BQL	BQL	BQL		2.4	1.6	75
10/6/2008	W-16	6.8	72.5	--	--	--	--			--	--	--	--
10/6/2008	BYA-9	6.7	73.6	--	--	--	--			--	--	--	--
9/10/2008	BYA-4	6.8	73.8	--	--	--	--			--	--	--	--
9/10/2008	BYA-11	7.1	74.1	--	--	--	--			--	--	--	--
8/26/2008	BYA-4	6.8	72.5	BQL	BQL	BQL	BQL			BQL	BQL	2.2	--
8/26/2008	BYA-11	7.3	72.5	BQL	BQL	BQL	BQL			BQL	BQL	0.4	--
7/3/2008	BYA-4	6.7	74.5	--	--	--	--			--	--	--	--
7/3/2008	BYA-11	7.0	79.7	--	--	--	--			--	--	--	--
6/10/2008	W-16	6.6	74.1	--	--	--	--			--	--	--	--
5/19/2008	W-16	6.8	74.1	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
4/4/2008	W-16	6.6	73.0	--	--	--	--			--	--	--	--
3/12/2008	W-13	6.5	70.7	--	--	--	--			--	--	--	--
3/12/2008	BYA-4	6.7	73.2	--	--	--	--			--	--	--	--
3/12/2008	HD-22	7.0	71.4	--	--	--	--			--	--	--	--

TABLE 1 - SUMMARY OF ANALYTICAL DATA

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)												
	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Phenols	Sulfides	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity
Units:		pH units	°F	mg/L	mg/L	mg/L	mL/L			mg/L	mg/L	NTU	% Survival
2/21/2008	W-13	6.7	70.0	BQL	BQL	BQL	BQL			BQL	BQL	0.1	--
2/21/2008	BYA-4	7.0	70.9	BQL	BQL	BQL	BQL			BQL	BQL	0.3	--
2/21/2008	HD-22	7.2	69.3	BQL	BQL	BQL	BQL			BQL	BQL	3.4	--
1/3/2008	W-13	6.5	69.8	--	--	--	--			--	--	--	--
1/3/2008	BYA-4	6.7	71.4	--	--	--	--			--	--	--	--
1/3/2008	HD-22	6.9	67.6	--	--	--	--			--	--	--	--
12/11/2007	W-16	6.6	70.9	--	--	--	--			--	--	--	--
12/11/2007	BYA-9	6.5	71.6	--	--	--	--			--	--	--	--
12/11/2007	HD-32	6.8	71.2	--	--	--	--			--	--	--	--
11/26/2007	W-16	7.1	71.1	BQL	BQL	BQL	BQL			BQL	BQL	0.2	100
11/26/2007	BYA-9	6.9	72.9	BQL	BQL	BQL	BQL			BQL	BQL	0.6	100
11/26/2007	HD-32	7.8	75.6	BQL	BQL	BQL	BQL			BQL	BQL	0.2	100
10/5/2007	W-16	6.6	72.9	--	--	--	--			--	--	--	--
10/5/2007	BYA-9	6.5	72.3	--	--	--	--			--	--	--	--
10/5/2007	HD-32	7.0	74.5	--	--	--	--			--	--	--	--
9/11/2007	BYA-4	6.7	74.3	--	--	--	--			--	--	--	--
9/11/2007	BYA-11	6.9	73.8	--	--	--	--			--	--	--	--
8/22/2007	BYA-4	6.9	73.0	BQL	BQL	BQL	BQL			BQL	BQL	3.0	--
8/22/2007	BYA-11	7.3	73.2	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
8/22/2007	W-16	--	--	--	--	--	BQL			BQL	--	--	--
8/22/2007	W-13	--	--	--	--	--	BQL			BQL	--	--	--
8/22/2007	BYA-9	--	--	--	--	--	BQL			BQL	--	--	--
8/22/2007	HD-22	--	--	--	--	--	BQL			BQL	--	--	--
7/27/2007	HD-22	--	--	--	--	--	BQL			--	--	--	--
7/16/2007	W-16	--	--	--	--	--	--			BQL	--	--	--
7/16/2007	HD-22	--	--	--	--	--	BQL			--	--	--	--
7/12/2007	HD-22	--	--	--	--	--	BQL			--	--	--	--
7/6/2007	BYA-4	6.7	72.1	--	--	--	--			--	--	--	--
7/6/2007	BYA-11	6.9	74.3	--	--	--	--			--	--	--	--
6/25/2007	HD-22	--	--	--	--	--	BQL			--	--	--	--
6/25/2007	W-16	--	--	--	--	--	--			BQL	--	--	--
6/5/2007	W-16	6.6	73.0	--	--	--	--			--	--	--	--
5/16/2007	W-16	6.7	72.0	BQL	BQL	BQL	BQL			**0.15**	BQL	0.2	--
5/2/2007	HD-22	--	--	--	--	--	0.1			--	--	--	--
4/12/2007	HD-22	--	--	--	--	--	**0.4**			--	--	--	--
4/12/2007	W-16	6.5	72.9	--	--	--	--			--	--	--	--
3/15/2007	W-13	**6.4**	69.3	--	--	--	--			--	--	--	--
3/15/2007	BYA-4	6.5	71.8	--	--	--	--			--	--	--	--
3/15/2007	HD-22	6.9	70.7	--	--	--	--			--	--	--	--
2/28/2007	W-13	6.6	70.3	BQL	BQL	BQL	BQL			BQL	BQL	0.4	--
2/28/2007	BYA-4	7.0	71.6	BQL	BQL	BQL	BQL			BQL	BQL	2.3	--
2/28/2007	HD-22	7.1	70.3	BQL	BQL	BQL	**0.5**			BQL	11	10.0	--
1/11/2007	W-13	6.7	68.5	--	--	--	--			--	--	--	--
1/11/2007	BYA-4	6.9	70.9	--	--	--	--			--	--	--	--
1/11/2007	HD-22	7.4	68.5	--	--	--	--			--	--	--	--
12/21/2006	W-16	6.8	71.1	--	--	--	--			--	--	--	--
12/21/2006	BYA-9	6.7	70.9	--	--	--	--			--	--	--	--
11/28/2006	W-16	6.6	71.6	BQL	BQL	BQL	BQL			BQL	BQL	0.4	100
11/28/2006	BYA-9	6.5	72.7	BQL	BQL	BQL	BQL			BQL	BQL	0.6	100
10/20/2006	W-16	7.3	73.0	--	--	--	--			--	--	--	--
10/20/2006	BYA-9	7.1	72.3	--	--	--	--			--	--	--	--
9/20/2006	W-16	8.3	73.0	--	--	--	--			--	--	--	--
8/24/2006	W-16	6.9	74.3	BQL	BQL	BQL	BQL			BQL	BQL	0.4	--
7/25/2006	W-16	7.2	74.1	--	--	--	--			--	--		

PLATE E-1

TABLE 1 - SUMMARY OF ANALYTICAL DATA

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)												
	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Phenols	Sulfides	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity
Units:		pH units	°F	mg/L	mg/L	mg/L	mL/L			mg/L	mg/L	NTU	% Survival
6/22/2006	BYA-11	7.6	73.4	--	--	--	--			--	--	--	--
6/22/2006	BYA-4	7.4	75.7	--	--	--	--			--	--	--	--
5/18/2006	BYA-11	7.4	71.1	BQL	BQL	BQL	BQL			BQL	BQL	1.5	--
5/18/2006	BYA-4	7.2	70.2	BQL	BQL	BQL	BQL			BQL	BQL	0.8	--
4/25/2006	W-16	7.3	70.9	--	--	--	--			--	--	--	--
3/16/2006	HD-22	7.4	70.2	--	--	--	--			--	--	--	--
3/16/2006	W-13	7.3	70.5	--	--	--	--			--	--	--	--
3/16/2006	BYA-4	7.3	72.5	--	--	--	--			--	--	--	--
2/21/2006	HD-22	7.3	70.0	BQL	BQL	BQL	BQL			BQL	BQL	4.0	--
2/21/2006	W-13	6.9	70.5	BQL	BQL	BQL	BQL			BQL	BQL	0.3	--
2/21/2006	BYA-4	7.0	72.1	BQL	BQL	BQL	BQL			BQL	BQL	0.8	--
1/27/2006	HD-22	7.3	69.4	--	--	--	--			--	--	--	--
1/27/2006	W-13	7.2	70.7	--	--	--	--			--	--	--	--
1/27/2006	BYA-4	7.3	73.4	--	--	--	--			--	--	--	--
12/22/2005	W-16	7.2	71.6	--	--	--	--			--	--	--	--
12/22/2005	BYA-9	7	72.7	--	--	--	--			--	--	--	--
11/28/2005	W-16	6.8	72.1	BQL	BQL	3.2	BQL			BQL	BQL	0.3	90
11/28/2005	BYA-9	7.3	72.3	BQL	BQL	4.9	BQL			BQL	BQL	0.3	100
10/20/2005	W-16	6.8	72.1	--	--	--	--			--	--	--	--
10/20/2005	BYA-9	6.8	72.5	--	--	--	--			--	--	--	--
9/1/2005	BYA-4	7	74.1	--	--	--	--			--	--	--	--
8/24/2005	BYA-4	7.1	72.0	BQL	BQL	BQL	BQL			BQL	BQL	0.7	--
7/29/2005	BYA-4	7.5	73.8	--	--	--	--			--	--	--	--
6/29/2005	W-16	7.1	73.0	--	--	--	--			--	--	--	--
6/29/2005	BYA-11	7.8	75.7	--	--	--	--			--	--	--	--
5/17/2005	W-16	6.6	72.7	BQL	BQL	BQL	BQL			BQL	BQL	0.1	--
5/17/2005	BYA-11	7.1	73.4	BQL	0.13	1.7	BQL			BQL	BQL	0.6	--
4/19/2005	W-16	7.0	72.5	--	--	--	--			--	--	--	--
4/19/2005	BYA-11	7.4	73.0	--	--	--	--			--	--	--	--
3/21/2005	W-13	7.2	72.1	--	--	--	--			--	--	--	--
3/21/2005	BYA-4	7.1	71.1	--	--	--	--			--	--	--	--
3/21/2005	HD-22	7.4	70.5	--	--	--	--			--	--	--	--
2/28/2005	BYA-4	7.1	71.4	BQL	BQL	BQL	BQL			BQL	BQL	0.4	--
2/28/2005	W-13	7.1	70.3	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
2/28/2005	HD-22	7.3	70.5	BQL	BQL	BQL	BQL			BQL	BQL	0.7	--
1/27/2005	BYA-4	7.2	71.1	--	--	--	--			--	--	--	--
1/27/2005	W-13	7.1	70.0	--	--	--	--			--	--	--	--
1/27/2005	HD-22	7.5	69.4	--	--	--	--			--	--	--	--
12/17/2004	W-16	7.3	69.4	--	--	--	--			--	--	--	--
11/17/2004	W-16	7.0	--	BQL	BQL	3.1	BQL			BQL	BQL	0.2	100
11/3/2004	W-16	--	--	--	--	--	--			BQL	--	--	--
10/21/2004	HD-22	7.5	72.0	--	--	--	--			--	--	--	--
9/29/2004	W-16	--	--	--	--	--	--			BQL	--	--	--
9/21/2004		7.4	75.0	--	--	--	--			--	--	--	--
8/26/2004		7.2	75.9	BQL	BQL	BQL	BQL			**0.25**	BQL	2.7	--
7/30/2004		7	78.1	--	--	--	--			--	--	--	--
6/30/2004		9	73.0	--	--	--	--			--	--	--	--
5/27/2004		7.7	70.0	BQL	BQL	BQL	BQL			BQL	10	0.7	--
PORT 5A													
12/17/2008	BYA-10												
11/19/2008	BYA-10												
10/6/2008	BYA-10												
12/11/2007	BYA-10	6.7	69.8	--	--	--	--			--	--	--	--
11/26/2007	BYA-10	7.4	71.2	BQL	BQL	BQL	BQL			BQL	BQL	0.2	95

TABLE 1 - SUMMARY OF ANALYTICAL DATA

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)												
	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Phenols	Sulfides	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity
Units:		*pH units*	*°F*	*mg/L*	*mg/L*	*mg/L*	*mL/L*			*mg/L*	*mg/L*	*NTU*	*% Survival*
10/5/2007	BYA-10	6.7	69.8	--	--	--	--			--	--	--	--
6/22/2006	BYA-10	7.5	73.6	--	--	--	--			--	--	--	--
5/18/2006	BYA-10	7.3	72.1	BQL	BQL	BQL	BQL			BQL	BQL	0.7	--
9/1/2005	BYA-10	7.1	73.0	--	--	--	--			--	--	--	--
8/24/2005	BYA-10	7.2	73.0	BQL	BQL	2.8	BQL			BQL	BQL	0.6	--
7/29/2005	BYA-10	7.5	74.3	--	--	--	--			--	--	--	--
12/17/2004	BYA-11	7.5	71.1	--	--	--	--			--	--	--	--
11/17/2004	BYA-9	6.9	--	BQL	BQL	3.8	BQL			BQL	BQL	3.0	100
11/3/2004	BYA-10	--	--	--	--	--	--			BQL	--	--	--
10/21/2004	BYA-10	7.5	73.9	--	--	--	--			--	--	--	--
9/29/2004	BYA-10	--	--	--	--	--	--			BQL	--	--	--
9/21/2004		7.4	75.9	--	--	--	--			--	--	--	--
8/26/2004		7.2	78.1	BQL	BQL	BQL	BQL			**0.25**	BQL	0.1	--
7/30/2004		7	80.1	--	--	--	--			--	--	--	--
6/30/2004		8	73.9	--	--	--	--			--	--	--	--
5/27/2004		7.5	73.9	BQL	BQL	BQL	BQL			BQL	BQL	BQL	--
PORT 6													
12/29/2008	W-18	--	--	--	--	--	--	--	--	--	--	--	100
6/10/2008	HD-11	7.3	71.8	--	--	--	--			--	--	--	--
6/10/2008	W-18	6.8	74.8	--	--	--	--			--	--	--	--
5/19/2008	HD-11	7.6	73.0	BQL	BQL	BQL	BQL			BQL	BQL	0.8	--
5/19/2008	W-18	7.0	74.3	BQL	BQL	BQL	BQL			BQL	BQL	1.6	--
4/4/2008	HD-11	7.4	68.9	--	--	--	--			--	--	--	--
4/4/2008	W-18	6.8	73.2	--	--	--	--			--	--	--	--
3/12/2008	HD-12	6.9	71.4	--	--	--	--			--	--	--	--
3/12/2008	BYA-3	7.0	82.0	--	--	--	--			--	--	--	--
2/21/2008	HD-12	7.1	70.3	BQL	BQL	BQL	BQL			BQL	BQL	0.1	--
2/21/2008	BYA-3	7.2	78.1	BQL	BQL	BQL	BQL			BQL	8	0.3	--
1/3/2008	HD-12	6.8	70.2	--	--	--	--			--	--	--	--
1/3/2008	BYA-3	6.8	81.9	--	--	--	--			--	--	--	--
12/11/2007	W-18	6.7	70.7	--	--	--	--			--	--	--	--
12/11/2007	HD-10	7.0	68.5	--	--	--	--			--	--	--	--
11/26/2007	W-18	7.4	72.9	BQL	BQL	BQL	BQL			BQL	BQL	2.5	95
11/26/2007	HD-10	7.7	69.8	BQL	BQL	BQL	BQL			BQL	BQL	0.2	100
10/5/2007	W-18	6.8	72.5	--	--	--	--			--	--	--	--
10/5/2007	HD-10	6.8	70.2	--	--	--	--			--	--	--	--
9/11/2007	BYA-2	6.6	72.7	--	--	--	--			--	--	--	--
9/11/2007	BYA-15	7.1	69.4	--	--	--	--			--	--	--	--
9/11/2007	HD-12	6.8	72.9	--	--	--	--			--	--	--	--
8/22/2007	BYA-2	6.7	73.4	BQL	BQL	BQL	BQL			BQL	BQL	0.8	--
8/22/2007	BYA-15	7.4	69.1	BQL	BQL	BQL	BQL			BQL	5.2	4.0	--
8/22/2007	HD-12	7.2	74.1	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
7/6/2007	BYA-2	6.7	72.9	--	--	--	--			--	--	--	--
7/6/2007	BYA-15	6.5	74.1	--	--	--	--			--	--	--	--
7/6/2007	HD-12	6.8	73.6	--	--	--	--			--	--	--	--
6/5/2007	W-18	6.6	73.2	--	--	--	--			--	--	--	--
6/5/2007	HD-11	7.4	69.6	--	--	--	--			--	--	--	--
6/5/2007	HD-43	7.4	71.1	--	--	--	--			--	--	--	--
5/16/2007	W-18	6.9	72.0	BQL	BQL	BQL	BQL			BQL	BQL	1.5	--
5/16/2007	HD-11	7.4	70.9	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
5/16/2007	HD-43	7.7	72.3	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
4/12/2007	W-18	6.7	73.8	--	--	--	--			--	--	--	--
4/12/2007	HD-11	7.2	71.6	--	--	--	--			--	--	--	--
4/12/2007	HD-12	6.8	72.0	--	--	--	--			--	--		

TABLE 1 - SUMMARY OF ANALYTICAL DATA

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)												
	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Phenols	Sulfides	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity
Units:		*pH units*	*°F*	*mg/L*	*mg/L*	*mg/L*	*mL/L*			*mg/L*	*mg/L*	*NTU*	*% Survival*
3/15/2007	BYA-3	6.7	70.5	--	--	--	--			--	--	--	--
2/28/2007	BYA-3	7.1	71.2	BQL	BQL	BQL	BQL			BQL	BQL	0.4	--
1/11/2007	BYA-3	6.7	70.5	--	--	--	--			--	--	--	--
12/21/2006	W-18	7	72.1	--	--	--	--			--	--	--	--
12/21/2006	HD-12	7.1	70.5	--	--	--	--			--	--	--	--
11/28/2006	W-18	6.9	73.9	BQL	BQL	BQL	BQL			BQL	9	15.0	100
11/28/2006	HD-12	7.0	72.3	BQL	BQL	BQL	BQL			BQL	BQL	0.1	100
10/20/2006	W-18	7.3	72.9	--	--	--	--			--	--	--	--
10/20/2006	HD-12	8	73.9	--	--	--	--			--	--	--	--
9/20/2006	W-18	8.2	74.8	--	--	--	--			--	--	--	--
9/20/2006	HD-12	8	72.5	--	--	--	--			--	--	--	--
8/24/2006	W-18	7.0	74.7	BQL	BQL	BQL	BQL			BQL	BQL	4.4	--
8/24/2006	HD-12	7.2	75.4	BQL	BQL	BQL	BQL			BQL	BQL	0.4	--
7/25/2006	W-18	7.4	77.5	--	--	--	--			--	--	--	--
7/25/2006	HD-12	7.7	74.3	--	--	--	--			--	--	--	--
6/22/2006	HD-10	7.6	72.3	--	--	--	--			--	--	--	--
6/22/2006	BYA-2	7.2	75.0	--	--	--	--			--	--	--	--
5/18/2006	HD-10	7.3	69.8	BQL	BQL	BQL	BQL			BQL	BQL	0.3	--
5/18/2006	BYA-2	7.0	71.8	5.3	BQL	BQL	BQL			BQL	8	6.7	--
4/25/2006	HD-12	7.5	72.0	--	--	--	--			--	--	--	--
4/25/2006	W-18	7.5	73.6	--	--	--	--			--	--	--	--
3/16/2006	BYA-3	7.4	75.4	--	--	--	--			--	--	--	--
2/21/2006	BYA-3	7.3	73.2	BQL	BQL	BQL	BQL			BQL	BQL	0.3	--
1/27/2006	BYA-3	7.4	73.6	--	--	--	--			--	--	--	--
12/22/2005	W-18	7.3	73.8	--	--	--	--			--	--	--	--
12/22/2005	HD-12	7.3	70.3	--	--	--	--			--	--	--	--
11/28/2005	W-18	7.1	72.7	BQL	BQL	4.1	BQL			BQL	BQL	0.7	95
11/28/2005	HD-12	7.0	73.0	BQL	BQL	6.1	BQL			BQL	BQL	0.3	100
10/20/2005	W-18	7	73.9	--	--	--	--			--	--	--	--
10/20/2005	HD-12	7.1	70.9	--	--	--	--			--	--	--	--
9/1/2005	BYA-2	6.9	72.9	--	--	--	--			--	--	--	--
8/24/2005	BYA-2	7.0	72.9	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
7/29/2005	BYA-2	7	73.9	--	--	--	--			--	--	--	--
6/29/2005	HD-12	7.3	73.0	--	--	--	--			--	--	--	--
6/29/2005	W-18	7.3	74.5	--	--	--	--			--	--	--	--
5/17/2005	HD-12	7.6	72.9	BQL	BQL	1.2	BQL			BQL	BQL	0.3	--
5/17/2005	BYA-2	7.3	72.7	BQL	BQL	BQL	BQL			BQL	BQL	2.1	--
4/19/2005	HD-12	7.3	72.1	--	--	--	--			--	--	--	--
4/19/2005	W-18	7.3	73.8	--	--	--	--			--	--	--	--
3/21/2005	BYA-3	7.4	73.6	--	--	--	--			--	--	--	--
2/28/2005	BYA-3	7.6	70.9	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
1/27/2005	BYA-3	7.5	67.1	--	--	--	--			--	--	--	--
12/17/2004	W-18	7.3	70.2	--	--	--	--			--	--	--	--
11/17/2004	W-18	7.0	--	BQL	BQL	BQL	BQL			BQL	6	8.1	95
11/3/2004	W-18	--	--	--	--	--	--			BQL	--	--	--
10/21/2004	W-18	7.0	74.8	--	--	--	--			--	--	--	--
9/29/2004	W-18	--	--	--	--	--	--			BQL	--	--	--
9/21/2004		8.5	73.9	--	--	--	--			--	--	--	--
8/26/2004		8.3	77.0	BQL	BQL	BQL	BQL			**0.3**	7	0.3	--
7/30/2004		8	81.0	--	--	--	--			--	--	--	--
6/30/2004		8	71.1	--	--	--	--			--	--	--	--
5/27/2004		7.7	71.1	BQL	BQL	BQL	BQL			BQL	BQL	BQL	--
PORT 7													

TABLE 1 - SUMMARY OF ANALYTICAL DATA

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)												
	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Phenols	Sulfides	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity
Units:		pH units	^{o}F	mg/L	mg/L	mg/L	mL/L			mg/L	mg/L	NTU	% Survival
12/11/2007	HD-7	7.5	69.4	--	--	--	--			--	--	--	--
11/26/2007	HD-7	8.2	72.1	BQL	BQL	BQL	BQL			BQL	BQL	0.3	95
10/5/2007	HD-7	7.1	71.8	--	--	--	--			--	--	--	--
6/29/2005	HD-7	7.7	72.3	--	--	--	--			--	--	--	--
5/17/2005	HD-7	7.6	71.6	BQL	0.09	BQL	BQL			BQL	BQL	0.1	--
4/19/2005	HD-7	7.8	70.7	--	--	--	--			--	--	--	--
12/17/2004	HD-12	7.3	70.9	--	--	--	--			--	--	--	--
11/17/2004	HD-12	7.2	--	BQL	BQL	1.1	BQL			BQL	BQL	BQL	95
10/21/2004	HD-7	7.9	72.5	--	--	--	--			--	--	--	--
9/21/2004		8.1	78.1	--	--	--	--			--	--	--	--
8/25/2004		7.8	77.0	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
7/30/2004		8	84.0	--	--	--	--			--	--	--	--
6/30/2004		8	73.9	--	--	--	--			--	--	--	--
5/27/2004		8.0	72.0	BQL	BQL	BQL	BQL			BQL	BQL	BQL	--
PORT 8													
Discharge to port 8 diverted to port 9.													
PORT 9													
6/10/2008	HD-23	7.0	71.2	--	--	--	--			--	--	--	--
5/19/2008	HD-23	7.2	71.4	2	BQL	BQL	BQL			BQL	BQL	0.3	--
4/4/2008	HD-23	6.9	70.5	--	--	--	--			--	--	--	--
3/12/2008	HD-24	7.4	70.7	--	--	--	--			--	--	--	--
2/21/2008	HD-24	7.7	68.9	BQL	BQL	BQL	BQL			BQL	BQL	1.0	--
1/3/2008	HD-24	7.3	68.9	--	--	--	--			--	--	--	--
9/20/2007	Port 9 east	--	--	--	--	--	BQL			--	--	--	--
9/20/2007	port 9 west	--	--	--	--	--	BQL			--	--	--	--
9/11/2007	HD-5	7.3	71.6	--	--	--	--			--	--	--	--
8/22/2007	HD-5	7.8	73.2	2.8	BQL	BQL	**0.2**			BQL	10	2.5	--
7/6/2007	HD-5	7.3	71.4	--	--	--	--			--	--	--	--
6/5/2007	HD-6	6.9	69.6	--	--	--	--			--	--	--	--
6/5/2007	HD-23	6.8	70.3	--	--	--	--			--	--	--	--
5/16/2007	HD-6	7.1	70.5	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
5/16/2007	HD-23	6.9	71.1	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
4/12/2007	HD-6	6.9	70.5	--	--	--	--			--	--	--	--
4/12/2007	HD-23	6.8	71.2	--	--	--	--			--	--	--	--
12/21/2006	HD-23	7.1	66.4	--	--	--	--			--	--	--	--
11/28/2006	HD-23	7.0	71.2	BQL	BQL	BQL	BQL			BQL	BQL	0.1	100
10/20/2006	HD-23	8.2	71.8	--	--	--	--			--	--	--	--
9/20/2006	HD-23	8.1	71.6	--	--	--	--			--	--	--	--
9/20/2006	HD-6	7.9	73.0	--	--	--	--			--	--	--	--
8/24/2006	HD-23	7.1	73.4	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
8/24/2006	HD-6	7.2	72.0	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
7/25/2006	HD-23	7.6	72.1	--	--	--	--			--	--	--	--
7/25/2006	HD-6	7.6	74.8	--	--	--	--			--	--	--	--
6/22/2006	HD-24	7.7	72.1	--	--	--	--			--	--	--	--
5/18/2006	HD-24	7.8	69.4	BQL	BQL	BQL	BQL			BQL	9	4.0	--
4/25/2006	HD-6	7.5	69.8	--	--	--	--			--	--	--	--
4/25/2006	HD-23	7.5	70.9	--	--	--	--			--	--	--	--
3/16/2006	HD-5	7.5	70.5	--	--	--	--			--	--	--	--
2/21/2006	HD-5	7.8	70.2	5.8	BQL	BQL	BQL			BQL	BQL	0.8	--
1/27/2006	HD-5	7.5	69.3	--	--	--	--			--	--	--	--
12/22/2005	HD-23	7.3	68.7	--	--	--	--			--	--	--	--

TABLE 1 - SUMMARY OF ANALYTICAL DATA

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)												
	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Phenols	Sulfides	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity
Units:		*pH units*	*°F*	*mg/L*	*mg/L*	*mg/L*	*mL/L*			*mg/L*	*mg/L*	*NTU*	*% Survival*
11/28/2005	HD-23	7.8	73.4	BQL	BQL	5.8	BQL			BQL	BQL	0.5	100
10/20/2005	HD-23	7.1	68.7	--	--	--	--			--	--	--	--
6/29/2005	HD-23	7.7	73.6	--	--	--	--			--	--	--	--
5/17/2005	HD-6	7.1	71.2	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
4/19/2005	HD-23	7.3	70.3	--	--	--	--			--	--	--	--
12/17/2004	HD-23	7.3	70.2	--	--	--	--			--	--	--	--
11/17/2004	HD-23	7.2	--	BQL	BQL	7.1	BQL			BQL	36	2.6	95
10/21/2004	HD-24	8.1	73.0	--	--	--	--			--	--	--	--
9/21/2004		8.1	77.0	--	--	--	--			--	--	--	--
8/25/2004		8.0	79.0	BQL	BQL	BQL	BQL			BQL	BQL	0.2	--
7/30/2004		7	77.0	--	--	--	--			--	--	--	--
6/30/2004		8	73.0	--	--	--	--			--	--	--	--
5/27/2004		7.7	72.0	BQL	BQL	BQL	BQL			BQL	20	0.6	--
Effluent Limit. (Daily Max.)		*6.5-8.5*	*100 F*	*30*	*0.5*	*15*	*0.3*			*0.1*	*150*	*150*	*--*
Effluent Limit. (Monthly Avg.)		*6.5-8.5*	*---*	*20*	*---*	*10*	*0.1*			*---*	*50*	*50*	*--*
Quantification Limit		*See laboratory report for detection limits*											

BQL: below practical quantification limit --: not tested

1ST QUARTER

CAPCO
Analytical Services, Inc

Prepared For:	Fugro West, Inc. 4820 McGrath Street, Suite #100 Ventura, CA 93003-7778	February 6, 2009

ATTENTION: Alexis Spencer

Laboratory No: 090273	Sampled By: Client
Date Received: 29-JAN-09	ID: See Below
Project: Big Rock Mesa NPDES	
Project No: 3399.006.032	

RESULTS

On January 29, 2009, eight (8) samples were received for analysis by Capco Analytical Services, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 5 pages excluding the cover letter and the Chain of Custody.

SAMPLE DESCRIPTION	CAS LAB NUMBER
W-13	09027301
BYA-4	09027302
BYA-3	09027303
HD-30	09027304
HD-15	09027305
HD-22	09027306
HD-12	09027307
HD-6	09027308

Alin E. Repede, MS
Director - Analytical Operations

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090273
Analyst: AN

Date Sampled: 01/29/09
Date Received: 01/29/09
Date Analyzed: 01/30/09
Sample Matrix: Water

BIOCHEMICAL OXYGEN DEMAND ANALYSIS
SM 5210 B

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09027301	W-13	ND	1	0.4	2
09027302	BYA-4	ND	1	0.4	2
09027303	BYA-3	0.67	1	0.4	2
09027304	HD-30	ND	1	0.4	2
09027305	HD-15	ND	1	0.4	2
09027306	HD-22	0.57	1	0.4	2
09027307	HD-12	0.52	1	0.4	2
09027308	HD-6	ND	1	0.4	2
090273-MB	Method Blank	ND	1	0.4	2

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJad
Principal Analyst

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.	Date Sampled: 01/29/09
CAS LAB NO: 090273	Date Received: 01/29/09
Analyst: AN	Date Analyzed: 01/30/09
	Sample Matrix: Water

TURBIDITY ANALYSIS
EPA Method 180.1

CAS Lab #	Sample ID	RESULTS (NTU)	Dilution Factor	PQL (NTU)
09027301	W-13	0.68	1	0.1
09027302	BYA-4	0.70	1	0.1
09027303	BYA-3	0.67	1	0.1
09027304	HD-30	0.51	1	0.1
09027305	HD-15	2.2	1	0.1
09027306	HD-22	21	1	0.1
09027307	HD-12	0.45	1	0.1
09027308	HD-6	0.47	1	0.1

PQL: Practical Quantitation Limit

AmJay
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090273
Analyst: AN

Date Sampled: 01/29/09
Date Received: 01/29/09
Date Analyzed: 01/30/09
Sample Matrix: Water

TOTAL SUSPENDED SOLIDS ANALYSIS
SM 2540 D

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/L)	PQL (mg/L)
09027301	W-13	ND	1	1	5
09027302	BYA-4	ND	1	1	5
09027303	BYA-3	ND	1	1	5
09027304	HD-30	ND	1	1	5
09027305	HD-15	2.0	1	1	5
09027306	HD-22	11	1	1	5
09027307	HD-12	ND	1	1	5
09027308	HD-6	ND	1	1	5
090273-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJad

~~Principal~~ Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090273
Analyst: GM

Date Sampled: 01/29/09
Date Received: 01/29/09
Date Analyzed: 01/30/09
Sample Matrix: Water

OIL & GREASE ANALYSIS
EPA Method 1664

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09027301	W-13	ND	1	1	5
09027302	BYA-4	ND	1	1	5
09027303	BYA-3	ND	1	1	5
09027304	HD-30	ND	1	1	5
09027305	HD-15	ND	1	1	5
09027306	HD-22	ND	1	1	5
09027307	HD-12	ND	1	1	5
09027308	HD-6	ND	1	1	5
090273-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AmJay
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090273
Analyst: AN

Date Sampled: 01/29/09
Date Received: 01/29/09
Date Analyzed: 01/29/09
Sample Matrix: Water

SETTLEABLE SOLIDS ANALYSIS
SM 2540 F

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	PQL (mg/L)
09027301	W-13	BQL	1	0.1
09027302	BYA-4	BQL	1	0.1
09027303	BYA-3	BQL	1	0.1
09027304	HD-30	BQL	1	0.1
09027305	HD-15	BQL	1	0.1
09027306	HD-22	0.2	1	0.1
09027307	HD-12	BQL	1	0.1
09027308	HD-6	BQL	1	0.1

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AmJay
~~Principal~~ Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO ANALYTICAL SERVICES
1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Company: Fugro West Fax: 805 650 7010
Address: 4820 McGrath St #100
Ventura 93003
Phone: 805 650 7000 Contact: Alexis Spencer

BILL TO: **P.O.#**
Company: Same
Address:
Phone: Contact:

PROJ. NO: 3349.006.032
PROJECT NAME: BIG ROCK MESA NPDES

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	TYPE	ANALYSIS: BOD	Oil, Grease	Total Suspended Solids	Turbidity	Settleable Solids				REMARKS
1	1/29/09	14:55			W-13	x				2/1	P/A	\	\	\	\	\				HD 15
2		14:15			BYA-4															(NOT HD 15)
3		11:00			BYA-3															MR 1/29/09
4		11:20			HD-30															
5		11:30			HD-15															
6		11:45			HD-22															
7		15:15			HD-12															
8		15:30			HD-6															
																				CHECK ONE BOX:
																				DISPOSE SAMPLES
																				RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	1/29/09 16:40	1644 MR 1/29/09			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	
72 Hr.		Other	

WHITE COPY ____ CANARY COPY ____ PINK COPY ____

Prepared For:	Fugro West, Inc. 4820 McGrath Street, Suite #100 Ventura, CA 93003-7778	February 13, 2009

ATTENTION: Alexis Spencer

Laboratory No: 090281	Sampled By: Client
Date Received: 29-JAN-09	ID: See Below
Project: Big Rock Mesa NPDES	
Project No: 3399.006.032	

RESULTS

On January 29, 2009, five (5) samples were received for analysis by Capco Analytical Services, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 2 pages excluding the cover letter, Chain of Custody and the Sub-Contractor's Report.

SAMPLE DESCRIPTION	CAS LAB NUMBER
W-1	09027301
W-8	09027302
W-2	09027303
BYA-9	09027304
W-18	09027305

Alin E. Repede, MS
Director - Analytical Operations

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 09028101
Sample ID: W-1
Analyst: AN/GM

Date Sampled: 01/30/09
Date Received: 01/30/09
Sample Matrix: Water

WET CHEMISTRY ANALYSIS SUMMARY

COMPOUND	RESULT	UNITS	DF	PQL	MDL	METHOD	ANALYZED
B.O.D.	ND	mg/L	1	2	0.4	5210 B	01/30/09
Oil & Grease	ND	mg/L	1	5	1.0	1664	02/02/09
Sett. Solids	<0.1	mg/L	1	0.1	--	2540 F	01/30/09
T.S.S.	ND	mg/L	1	5	1.0	2540 D	01/30/09
Turbidity	0.75	NTU	1	0.1	--	180.1	01/30/09

B.O.D.: Biochemical Oxygen Demand
T.S.S.:Total Suspended Solids
MDL: Method Detection Limit
ND: Not Detected
DF: Dilution Factor

AMJa
~~Principal~~ Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.	Date Sampled: 01/30/09
CAS LAB NO: 09028102	Date Received: 01/30/09
Sample ID: W-8	Sample Matrix: Water
Analyst: AN/GM	

WET CHEMISTRY ANALYSIS SUMMARY

COMPOUND	RESULT	UNITS	DF	PQL	MDL	METHOD	ANALYZED
B.O.D.	11	mg/L	1	2	0.4	5210 B	01/30/09
Oil & Grease	ND	mg/L	1	5	1.0	1664	02/02/09
Sett. Solids	<0.1	mg/L	1	0.1	--	2540 F	01/30/09
T.S.S.	ND	mg/L	1	5	1.0	2540 D	01/30/09
Turbidity	0.48	NTU	1	0.1	--	180.1	01/30/09

B.O.D.: Biochemical Oxygen Demand
T.S.S.:Total Suspended Solids
MDL: Method Detection Limit
ND: Not Detected
DF: Dilution Factor

AMJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
Sample ID: Method Blank
CAS Lab NO: 090281-MB

Sample Matrix: Water
Analyst: AN/CR

WET CHEMISTRY ANALYSIS SUMMARY

COMPOUND	RESULT	UNITS	DF	PQL	MDL	METHOD	ANALYZED
B.O.D.	ND	mg/L	1	2	0.4	5210 B	01/30/09
Oil & Grease	ND	mg/L	1	5	1.0	1664	02/02/09
Sett. Solids	<0.1	mg/L	1	0.1	--	2540 F	01/30/09
T.S.S.	ND	mg/L	1	5	1.0	2540 D	01/30/09

B.O.D.: Biochemical Oxygen Demand
T.S.S.:Total Suspended Solids
MDL: Method Detection Limit
ND: Not Detected
DF: Dilution Factor

Amjad
Principal Analyst

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AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

February 11, 2009

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	090281-03
DATE RECEIVED:	30 Jan - 09
ABC LAB. NO.:	CAP0109.322

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	70 % Survival in 100% Sample
TU(a) =	0.87

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	1/31/2009	Test ID:	CAP0109322	Sample ID:	CA000000
End Date:	2/4/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	1/30/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090281-03				

Conc-%	1	2	3	4
N Control	1.0000	0.9000	1.0000	0.7000
100	0.5000	0.9000		

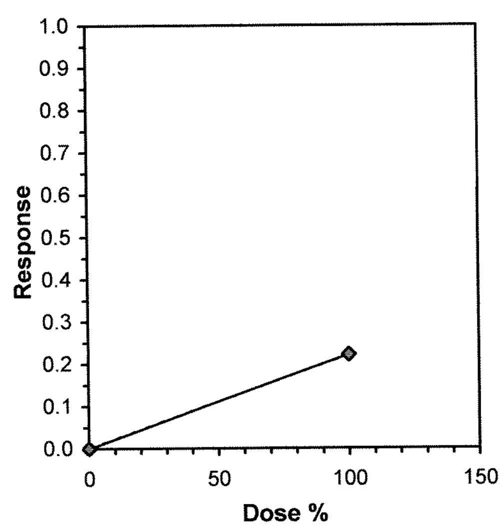
			Transform: Arcsin Square Root						1-Tailed		Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	0.9000	1.0000	1.2661	0.9912	1.4120	15.696	4				0.9000	1.0000
100	0.7000	0.7778	1.0172	0.7854	1.2490	32.230	2	1.209	2.132	0.4388	0.7000	0.7778

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.8809		0.713		-0.4547	-2.0013
F-Test indicates equal variances (p = 0.40)	2.72187		55.5519			
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates no significant differences	0.36816	0.40458	0.08256	0.05649	0.29326	1, 4
Treatments vs N Control						

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05*	22.500			
IC10*	45.000			
IC15*	67.500			
IC20*	90.000			
IC25	>100			
IC40	>100			
IC50	>100			

* indicates IC estimate less than the lowest concentration



 ToxCalc v5.0.23 Reviewed by: [signature]

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	1/31/2009	Test ID:	CAP0109322	Sample ID:	CA000000
End Date:	2/4/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	1/30/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090281-03				

		Auxiliary Data Summary					
Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.00	24.00	24.00	0.00	0.00	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.83	7.80	7.90	0.06	3.07	3
100		7.27	6.90	7.70	0.40	8.75	3
N Control	DO mg/L	7.27	6.80	7.70	0.45	9.24	3
100		6.83	6.10	7.70	0.81	13.16	3
N Control	Hardness mg/L	80.00	80.00	80.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	361.33	350.00	371.00	10.60	0.90	3
100		2393.33	2326.00	2466.00	70.15	0.35	3

 ToxCalc v5.0.23 Reviewed by: [signature]

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

February 11, 2009

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	090281-04
DATE RECEIVED:	30 Jan - 09
ABC LAB. NO.:	CAP0109.323

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	85 % Survival in 100% Sample
TU(a) =	0.69

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

29 NORTH OLIVE STREET, VENTURA, CA 93001 • (805) 643-5621

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	1/31/2009	Test ID:	CAP0109323	Sample ID:	CA000000
End Date:	2/4/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	1/30/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090281-04				

Conc-%	1	2	3	4
N Control	1.0000	0.9000	1.0000	0.7000
100	0.9000	0.8000		

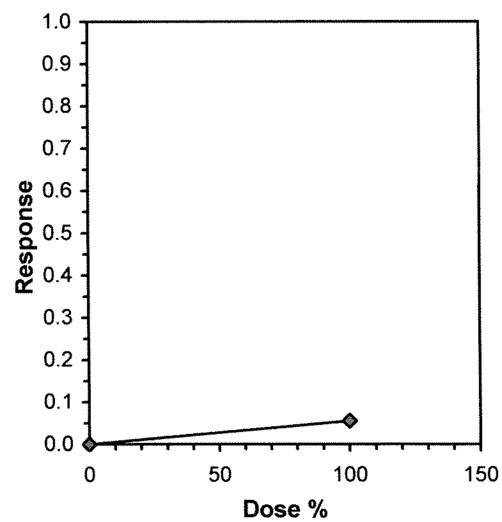
			Transform: Arcsin Square Root						1-Tailed		Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	0.9000	1.0000	1.2661	0.9912	1.4120	15.696	4				0.9000	1.0000
100	0.8500	0.9444	1.1781	1.1071	1.2490	8.517	2	0.567	2.132	0.3310	0.8500	0.9444

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.89522		0.713		-1.0598	0.81454
F-Test indicates equal variances (p = 0.70)	3.92249		21614.1			
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates no significant differences	0.26249	0.28846	0.01032	0.03213	0.60126	1, 4
Treatments vs N Control						

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05*	90.000			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

* indicates IC estimate less than the lowest concentration

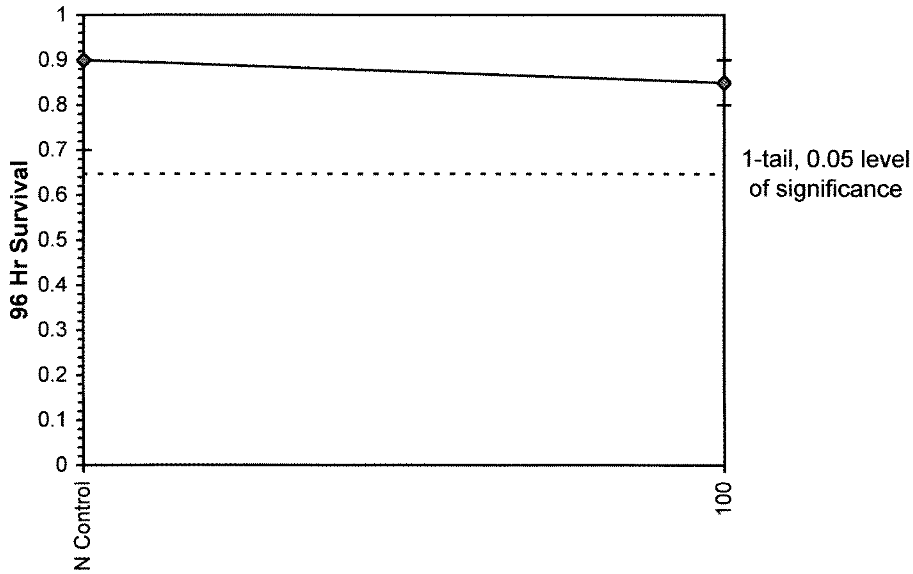


 ToxCalc v5.0.23 Reviewed by: [signature]

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	1/31/2009	Test ID: CAP0109323		Sample ID:	CA000000
End Date:	2/4/2009	Lab ID: CAABC		Sample Type:	EFF1-POTW
Sample Date:	1/30/2009	Protocol: EPA-821-R-02-012		Test Species:	PP-Pimephales promelas
Comments:	#090281-04				

Dose-Response Plot



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	1/31/2009	Test ID:	CAP0109323	Sample ID:	CA000000
End Date:	2/4/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	1/30/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090281-04				

		Auxiliary Data Summary					
Conc-%	**Parameter**	**Mean**	**Min**	**Max**	**SD**	**CV%**	**N**
N Control	Temp C	24.00	24.00	24.00	0.00	0.00	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.83	7.80	7.90	0.06	3.07	3
100		7.40	7.00	8.00	0.53	9.83	3
N Control	DO mg/L	7.27	6.80	7.70	0.45	9.24	3
100		7.23	6.90	7.50	0.31	7.64	3
N Control	Hardness mg/L	80.00	80.00	80.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	361.33	350.00	371.00	10.60	0.90	3
100		2567.00	2511.00	2626.00	57.56	0.30	3

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

February 11, 2009

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	090281-05
DATE RECEIVED:	30 Jan - 09
ABC LAB. NO.:	CAP0109.324

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	85 % Survival in 100% Sample
TU(a) =	0.69

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

29 NORTH OLIVE STREET, VENTURA, CA 93001 • (805) 643-5621

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	1/31/2009	Test ID:	CAP0109324	Sample ID:	CA000000
End Date:	2/4/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	1/30/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090281-05				

Conc-%	1	2	3	4
N Control	1.0000	0.9000	1.0000	0.7000
100	1.0000	0.7000		

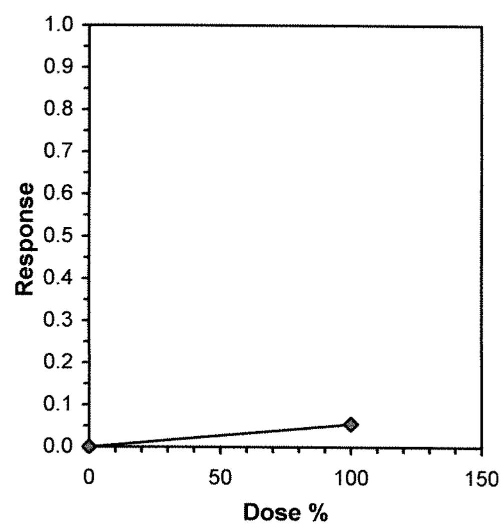
			Transform: Arcsin Square Root						1-Tailed		Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	0.9000	1.0000	1.2661	0.9912	1.4120	15.696	4				0.9000	1.0000
100	0.8500	0.9444	1.2016	0.9912	1.4120	24.767	2	0.327	2.132	0.4200	0.8500	0.9444

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.87813		0.713		-0.5185	-1.9464
F-Test indicates equal variances (p = 0.46)	2.24267		55.5519			
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates no significant differences	0.34948	0.38406	0.00554	0.05176	0.7599	1, 4
Treatments vs N Control						

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05*	90.000			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

* indicates IC estimate less than the lowest concentration

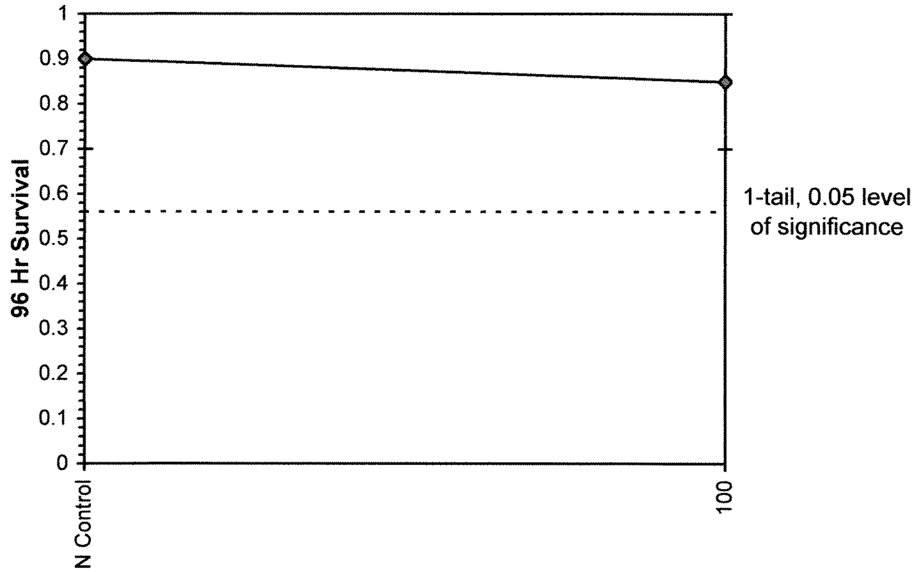


 ToxCalc v5.0.23 Reviewed by: [signature]

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	1/31/2009	Test ID:	CAP0109324	Sample ID:	CA000000
End Date:	2/4/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	1/30/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090281-05				

Dose-Response Plot



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	1/31/2009	Test ID:	CAP0109324	Sample ID:	CA000000
End Date:	2/4/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	1/30/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090281-05				

		Auxiliary Data Summary					
Conc-%	**Parameter**	**Mean**	**Min**	**Max**	**SD**	**CV%**	**N**
N Control	Temp C	24.00	24.00	24.00	0.00	0.00	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.83	7.80	7.90	0.06	3.07	3
100		7.47	7.00	8.20	0.64	10.74	3
N Control	DO mg/L	7.27	6.80	7.70	0.45	9.24	3
100		7.60	7.50	7.70	0.10	4.16	3
N Control	Hardness mg/L	80.00	80.00	80.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		248.00	248.00	248.00	0.00	0.00	3
N Control	Conductivity	361.33	350.00	371.00	10.60	0.90	3
100		2755.33	2687.00	2802.00	60.48	0.28	3

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT

Company CAPCO ANALYTICAL Fax (805) 644-9947
Address 1536 EASTMAN AVE. "B"
VENTURA, CA. 93003
Phone (805) 644-1095 Contact MICHELLE

BILL TO: P.O.#

Company (SAME)
Address
Phone Contact

P.O. # 927862

PROJECT NAME ABC LABORATORIES

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS: ACUTE TOXICITY

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	ACUTE TOXICITY	REMARKS
3	1/30/09	13:15			090281 -03					1	P	X	
4	↓	13:00			090281 - 04					1	P	X	
5	↓	12:20			090281 - 05					1	P	X	

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature] 1/30/09		[signature] 01/30/09 1545	Temp: 5.2°C CHL: 20.1		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	
72 Hr.		Other	

WHITE COPY ____ CANARY COPY ____ PINK COPY ____

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Fax 805 650 7010
Company Fugro WEST
Address 4820 McGRATH ST #100
Ventura 93003
Phone 805 650 7000 Contact Alexis Spencer

BILL TO:
Company
Address SAME
Phone Contact

P.O.#

PROJ. NO 3399.006.032

PROJECT NAME BIG ROCK MESA NPDES

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

090281

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	ANALYSIS: ACUTE TOXICITY	OIL & GREASE, BOD	TOTAL SUSPENDED SOLIDS	TURBIDITY, SETTLE SOLIDS				REMARKS
1	1/30/09	13:30			W-1	↓				1/2	A/P		/	/	/				
2	↓	12:30			W-8	↓				1/2	A/P		/	/	/				
3	↓	13:15			W-2 70%	↓				1	P	/							
4	↓	13:00			BYA-9 85%	↓				1	P	/							
5	↓	12:20			W-18 85%	↓				1	P	/							

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	1/30/09 15:15	1514 4/30/09			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	
72 Hr.		Other	

WHITE COPY ________ CANARY COPY ________ PINK COPY ________

INVOICE NO. : CAP0390.263

March 10, 2009

Accounts Payable
CAPCO Analytical
1536 Eastman Avenue Suite B
Ventura, CA 93003

SAMPLE I.D.:	090574-11, -12 & -13
DATE RECEIVED:	26 Feb - 09
ABC LAB. NO.:	CAP0209.451 to .453

ACUTE NPDES BIOASSAYS Fathead Minnow - (3 @ $160.00)	$480.00
TOTAL	$480.00

Make checks payable to:

Aquatic Bioassay & Consulting Labs., Inc.
29 N. Olive St.
Ventura, CA 93001

Terms are net 30 days.

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

March 10, 2009

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	090574-11
DATE RECEIVED:	26 Feb - 09
ABC LAB. NO.:	CAP0209.451

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	100 % Survival in 100% Sample
TU(a) =	0.00

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	2/26/2009	Test ID:	CAP0209451	Sample ID:	CA000000
End Date:	3/2/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	2/25/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090574-11				

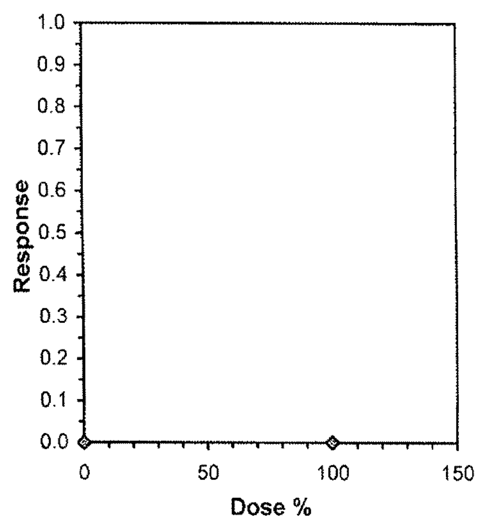
Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000		

			Transform: Arcsin Square Root					Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Mean	N-Mean
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4	1.0000	1.0000
100	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	1.0000	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ($p > 0.01$)	1	0.713		
Equality of variance cannot be confirmed				

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

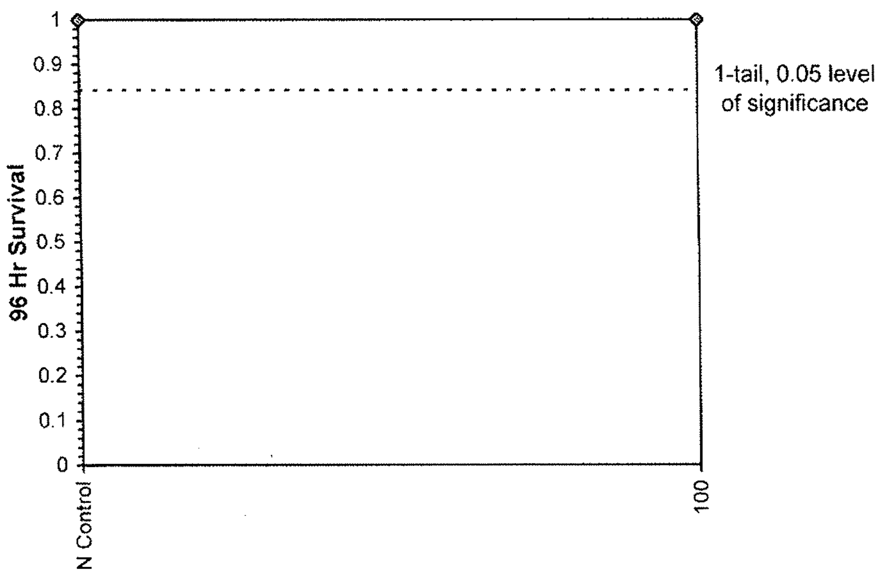


 ToxCalc v5.0.23 Reviewed by: ✓

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	2/26/2009	Test ID:	CAP0209451	Sample ID:	CA000000
End Date:	3/2/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	2/25/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090574-11				

Dose-Response Plot



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	2/26/2009	Test ID:	CAP0209451	Sample ID:	CA000000
End Date:	3/2/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	2/25/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090574-11				

Conc-%	Parameter	Auxiliary Data Summary Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.00	24.00	24.00	0.00	0.00	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.90	7.90	7.90	0.00	0.00	3
100		7.33	7.10	7.70	0.32	7.73	3
N Control	DO mg/L	7.17	5.80	8.00	1.19	15.24	3
100		6.00	5.50	6.40	0.46	11.28	3
N Control	Hardness mg/L	83.67	83.00	84.00	0.58	0.91	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	350.00	345.00	355.00	5.00	0.64	3
100		2706.33	2659.00	2785.00	68.60	0.31	3

 ToxCalc v5.0.23 Reviewed by: ____

AQUATIC BIOASSAY & CONSULTING LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

March 10, 2009

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	090574-12
DATE RECEIVED:	26 Feb - 09
ABC LAB. NO.:	CAP0209.452

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 = 100 % Survival in 100% Sample
TU(a) = 0.00

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	2/26/2009	Test ID:	CAP0209452	Sample ID:	CA000000
End Date:	3/2/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	2/25/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090574-12				

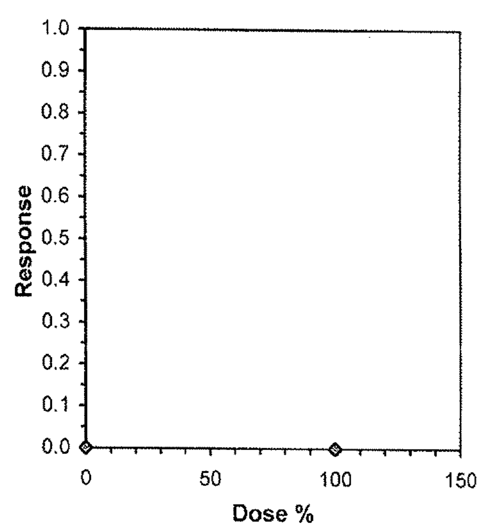
Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000		

			Transform: Arcsin Square Root					Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Mean	N-Mean
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4	1.0000	1.0000
100	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	1.0000	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	1	0.713		
Equality of variance cannot be confirmed				

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

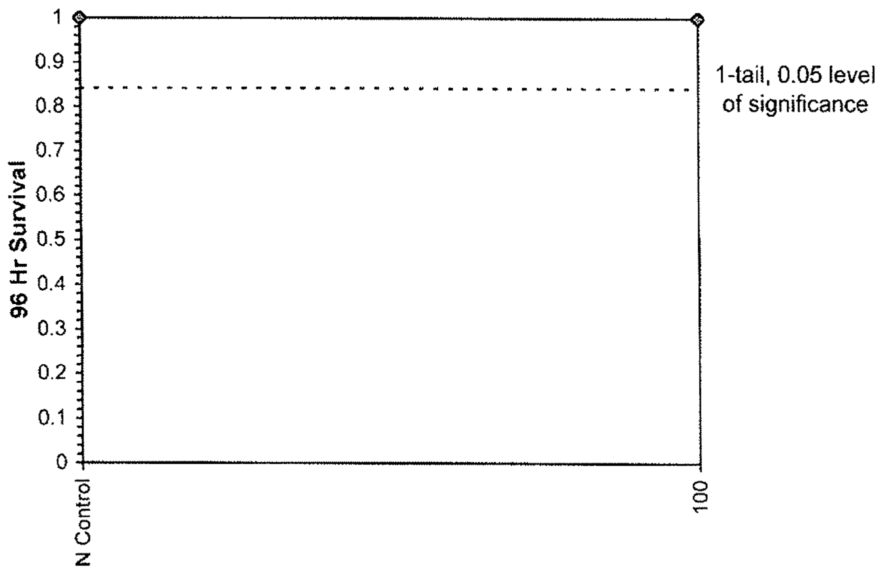


 Reviewed by: ___

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	2/26/2009	Test ID:	CAP0209452	Sample ID:	CA000000
End Date:	3/2/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	2/25/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090574-12				

Dose-Response Plot



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	2/26/2009	Test ID:	CAP0209452	Sample ID:	CA000000
End Date:	3/2/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	2/25/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090574-12				

Conc-%	Parameter	Auxiliary Data Summary Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.00	24.00	24.00	0.00	0.00	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.90	7.90	7.90	0.00	0.00	3
100		7.47	7.20	7.70	0.25	6.72	3
N Control	DO mg/L	7.17	5.80	8.00	1.19	15.24	3
100		5.90	5.50	6.20	0.36	10.18	3
N Control	Hardness mg/L	83.67	83.00	84.00	0.58	0.91	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	350.00	345.00	355.00	5.00	0.64	3
100		2981.67	2970.00	2988.00	10.12	0.11	3

 Reviewed by: ______

AQUATIC BIOASSAY & CONSULTING LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

March 10, 2009

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CLIENT:	CAPCO Analytical
SAMPLE I.D.:	090574-13
DATE RECEIVED:	26 Feb - 09
ABC LAB. NO.:	CAP0209.453

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	100 % Survival in 100% Sample
TU(a) =	0.00

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	2/26/2009	Test ID:	CAP0209453	Sample ID:	CA000000
End Date:	3/2/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	2/25/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090574-13				

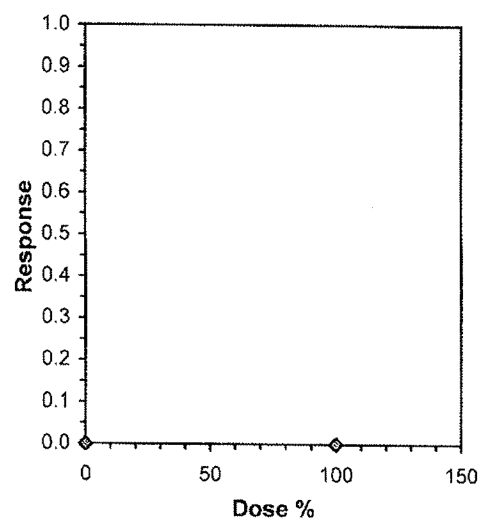
Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000		

			Transform: Arcsin Square Root					Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Mean	N-Mean
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4	1.0000	1.0000
100	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	1.0000	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ($p > 0.01$)	1	0.713		
Equality of variance cannot be confirmed				

Linear Interpolation (200 Resamples)

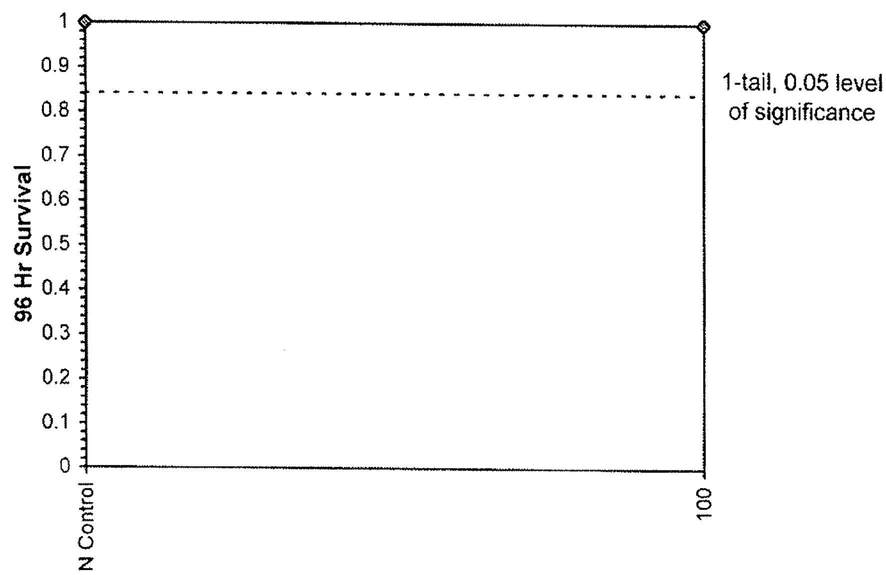
Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	2/26/2009	Test ID:	CAP0209453	Sample ID:	CA000000
End Date:	3/2/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	2/25/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090574-13				

Dose-Response Plot



 ToxCalc v5.0.23 Reviewed by: ________

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	2/26/2009	Test ID:	CAP0209453	Sample ID:	CA000000
End Date:	3/2/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	2/25/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090574-13				

		Auxiliary Data Summary					
Conc-%	**Parameter**	**Mean**	**Min**	**Max**	**SD**	**CV%**	**N**
N Control	Temp C	24.00	24.00	24.00	0.00	0.00	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.90	7.90	7.90	0.00	0.00	3
100		7.30	7.10	7.50	0.20	6.13	3
N Control	DO mg/L	7.17	5.80	8.00	1.19	15.24	3
100		5.87	5.80	5.90	0.06	4.10	3
N Control	Hardness mg/L	83.67	83.00	84.00	0.58	0.91	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	350.00	345.00	355.00	5.00	0.64	3
100		2645.00	2563.00	2797.00	131.77	0.43	3

 Reviewed by: [illegible]

CAPCO ANALYTICAL SERVICES
1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Company CAPCO ANALYTICAL Fax (805) 644-9947
Address 1536 EASTMAN AVE. "B"
VENTURA, CA. 93003
Phone (805) 644-1095 Contact MICHELLE

BILL TO: P.O.#
Company (SAME)
Address
Phone Contact

P.O. #: 927872
PROJECT NAME: ABC

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS: Acute Toxicity Fresh Water

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I. D.	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	Acute Toxicity Fresh Water								REMARKS
1	2/25/09	14:55			[illegible]-11	✓						✓								
2	↓	10:45			[illegible]-12	✓						✓								
3	↓	13:10			[illegible]-13	✓						✓								
					Temp - 6.9°C															
					Cw-21															

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	2/26 9:30 am	[signature]			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	✓
72 Hr.		Other	

WHITE COPY ______ CANARY COPY ______ PINK COPY ______

CAPCO
Analytical Services, Inc

Prepared For:	Fugro West, Inc. 4820 McGrath Street, Suite #100 Ventura, CA 93003-7778	March 11, 2009

ATTENTION: Alexis Spencer

Laboratory No: 090574
Date Received: 25-FEB-09
Project: Big Rock Mesa NPDES
Project No: 3399.006.032

Sampled By: Client
ID: See Below

RESULTS

On February 25, 2009, thirteen (13) samples were received for analysis by Capco Analytical Services, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 9 pages excluding the cover letter, Chain of Custody and the Sub-Contractor's Report.

SAMPLE DESCRIPTION	CAS LAB NUMBER
HD-12	09057401
HD-30	09057402
HD-6	09057403
HD-15	09057404
HD-22	09057405
W-1	09057406
BYA-4	09057407
W-13	09057408
W-8	09057409
BYA-3	09057410
BYA-9	09057411
W-18	09057412
W-2	09057413

Alin E. Repede, MS
Director - Analytical Operations

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090574
Analyst: GM

Date Sampled: 02/25/09
Date Received: 02/25/09
Date Analyzed: 02/27/09
Sample Matrix: Water

MBAS ANALYSIS
SM 5540 C

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09057401	HD-12	0.04	1	0.02	0.1
09057402	HD-30	0.04	1	0.02	0.1
09057403	HD-6	ND	1	0.02	0.1
09057404	HD-15	0.03	1	0.02	0.1
09057405	HD-22	0.04	1	0.02	0.1
09057406	W-1	0.07	1	0.02	0.1
09057407	BYA-4	ND	1	0.02	0.1
09057408	W-13	0.04	1	0.02	0.1
09057409	W-8	0.11	1	0.02	0.1
09057410	BYA-3	0.04	1	0.02	0.1
090574-MB	Method Blank	ND	1	0.02	0.1

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090574
Analyst: GM/AJ

Date Sampled: 02/25/09
Date Received: 02/25/09
Date Analyzed: 02/25/09
Sample Matrix: Water

pH ANALYSIS
SM 4500-$^{H+}$ B

CAS Lab #	Sample ID	RESULTS (S.U.)
09057401	HD-12	6.3
09057402	HD-30	6.8
09057403	HD-6	6.6
09057404	HD-15	6.4
09057405	HD-22	6.6
09057406	W-1	6.3
09057407	BYA-4	6.4
09057408	W-13	6.2
09057409	W-8	6.3
09057410	BYA-3	6.6

AMJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090574
Analyst: AN

Date Sampled: 02/25/09
Date Received: 02/25/09
Date Analyzed: 03/02/09
Sample Matrix: Water

TOTAL SULFIDE ANALYSIS
SM 4500-S^{-2}D

CAS LAB #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/L)	PQL (mg/L)
09057401	HD-12	ND	1	0.004	0.02
09057402	HD-30	ND	1	0.004	0.02
09057403	HD-6	ND	1	0.004	0.02
09057404	HD-15	ND	1	0.004	0.02
09057405	HD-22	ND	1	0.004	0.02
09057406	W-1	ND	1	0.004	0.02
09057407	BYA-4	ND	1	0.004	0.02
09057408	W-13	ND	1	0.004	0.02
09057409	W-8	ND	1	0.004	0.02
09057410	BYA-3	ND	1	0.004	0.02
090574-MB	Method Blank	ND	1	0.004	0.02

ND: Not Detected
MDL: Method Detection Limit
BQL: Below Practical Quantitation Limit

AMJay
Pri~~ncipal~~ Analyst

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CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090574
Analyst: AN

Date Sampled: 02/25/09
Date Received: 02/25/09
Date Analyzed: 03/02/09
Sample Matrix: Water

TOTAL PHENOL ANALYSIS
EPA METHOD 420.1

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/L)	PQL (mg/L)
09057401	HD-12	ND	1	0.02	0.1
09057402	HD-30	ND	1	0.02	0.1
09057403	HD-6	ND	1	0.02	0.1
09057404	HD-15	ND	1	0.02	0.1
09057405	HD-22	ND	1	0.02	0.1
09057406	W-1	ND	1	0.02	0.1
09057407	BYA-4	ND	1	0.02	0.1
09057408	W-13	ND	1	0.02	0.1
09057409	W-8	ND	1	0.02	0.1
09057410	BYA-3	ND	1	0.02	0.1
090574-MB	Method Blank	ND	1	0.02	0.1

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
~~Principal~~ Analyst

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CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090574
Analyst: AN

Date Sampled: 02/25/09
Date Received: 02/25/09
Date Analyzed: 02/26/09
Sample Matrix: Water

SETTLEABLE SOLIDS ANALYSIS
SM 2540 F

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	PQL (mg/L)
09057401	HD-12	BQL	1	0.1
09057402	HD-30	BQL	1	0.1
09057403	HD-6	BQL	1	0.1
09057404	HD-15	BQL	1	0.1
09057405	HD-22	BQL	1	0.1
09057406	W-1	BQL	1	0.1
09057407	BYA-4	BQL	1	0.1
09057408	W-13	BQL	1	0.1
09057409	W-8	BQL	1	0.1
09057410	BYA-3	BQL	1	0.1

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AMJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090574
Analyst: GM

Date Sampled: 02/25/09
Date Received: 02/25/09
Date Analyzed: 02/26/09
Sample Matrix: Water

OIL & GREASE ANALYSIS
EPA Method 1664

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09057401	HD-12	ND	1	1	5
09057402	HD-30	ND	1	1	5
09057403	HD-6	ND	1	1	5
09057404	HD-15	1.3	1	1	5
09057405	HD-22	ND	1	1	5
09057406	W-1	1.4	1	1	5
09057407	BYA-4	ND	1	1	5
09057408	W-13	1.1	1	1	5
09057409	W-8	1.2	1	1	5
09057410	BYA-3	1.2	1	1	5
090574-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJac

Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090574
Analyst: AN

Date Sampled: 02/25/09
Date Received: 02/25/09
Date Analyzed: 02/26/09
Sample Matrix: Water

BIOCHEMICAL OXYGEN DEMAND ANALYSIS
SM 5210 B

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09057401	HD-12	0.69	1	0.4	2
09057402	HD-30	ND	1	0.4	2
09057403	HD-6	ND	1	0.4	2
09057404	HD-15	1.2	1	0.4	2
09057405	HD-22	0.59	1	0.4	2
09057406	W-1	0.86	1	0.4	2
09057407	BYA-4	0.56	1	0.4	2
09057408	W-13	ND	1	0.4	2
09057409	W-8	0.73	1	0.4	2
09057410	BYA-3	0.59	1	0.4	2
090574-MB	Method Blank	ND	1	0.4	2

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090574
Analyst: AN

Date Sampled: 02/25/09
Date Received: 02/25/09
Date Analyzed: 02/27/09
Sample Matrix: Water

TOTAL SUSPENDED SOLIDS ANALYSIS
SM 2540 D

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/L)	PQL (mg/L)
09057401	HD-12	ND	1	1	5
09057402	HD-30	ND	1	1	5
09057403	HD-6	1.6	1	1	5
09057404	HD-15	ND	1	1	5
09057405	HD-22	2.4	1	1	5
09057406	W-1	ND	1	1	5
09057407	BYA-4	1.6	1	1	5
09057408	W-13	ND	1	1	5
09057409	W-8	ND	1	1	5
09057410	BYA-3	ND	1	1	5
090574-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJac
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090574
Analyst: AN

Date Sampled: 02/25/09
Date Received: 02/25/09
Date Analyzed: 02/26/09
Sample Matrix: Water

TURBIDITY ANALYSIS
EPA Method 180.1

CAS Lab #	Sample ID	RESULTS (NTU)	Dilution Factor	PQL (NTU)
09057401	HD-12	0.61	1	0.1
09057402	HD-30	0.62	1	0.1
09057403	HD-6	0.73	1	0.1
09057404	HD-15	0.66	1	0.1
09057405	HD-22	6.3	1	0.1
09057406	W-1	1.2	1	0.1
09057407	BYA-4	0.74	1	0.1
09057408	W-13	0.65	1	0.1
09057409	W-8	0.64	1	0.1
09057410	BYA-3	0.68	1	0.1

PQL: Practical Quantitation Limit

AMJad

Principal Analyst

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Company: Fugro West
Fax: 805 650 7010
Address: 4820 McGrath St Suite 100
Ventura 93003
Phone: 805 650 7000 Contact: Alexis Spencer

BILL TO:
Company: Same
Address:
Phone: Contact:

P.O.#

PROJ. NO: 3399.006.032
PROJECT NAME: BIG ROCK MESA - NPDES

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS

090574

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX WATER	SOIL	SLUDGE	OTHER	CONTAINER #	TYPE	Phenol	MBAS, Sett. Solids, TSS	pH, Turbidity, BOD	Oil & Grease	Acute Toxicity				REMARKS
1	2/25/09	14:05			HD-12							/	/	/	/					
2		13:30			HD-30															
3		14:15			HD-6															
4		13:45			HD-15															
5		14:00			HD-22															
6		14:40			W-1															
7		11:15			BYA-4															
8		11:45			W-13															
9		12:40			W-8															
10		11:00			BYA-3							↓	↓	↓	↓					
11		14:55			BYA-9											/				
12		10:45			W-18											/				
13	↓	13:10			W-2											/				

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	2/25/09 16:10	JAYNE			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	
72 Hr.		Other	

WHITE COPY ____ CANARY COPY ____ PINK COPY ____

CAPCO Analytical Services, Inc

Prepared For: Fugro West, Inc.
4820 McGrath Street, Suite #100
Ventura, CA 93003-7778

March 31, 2009

ATTENTION: Alexis Spencer

Laboratory No: 090807
Date Received: 24-MAR-09
Project: Big Rock Mesa NPDES
Project No: 3399.006.032

Sampled By: Client
ID: See Below

RESULTS

On March 24, 2009, nine (9) samples were received for analysis by Capco Analytical Services, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 5 pages excluding the cover letter and the Chain of Custody.

SAMPLE DESCRIPTION	CAS LAB NUMBER
BYA-4	09080701
HD-6	09080702
HD-12	09080703
W-1	09080704
BYA-3	09080705
HD-30	09080706
HD-22	09080707
HD-15	09080708
W-8	09080709

Alin E. Repede, MS
Director - Analytical Operations

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090807
Analyst: AN

Date Sampled: 03/24/09
Date Received: 03/24/09
Date Analyzed: 03/25/09
Sample Matrix: Water

BIOCHEMICAL OXYGEN DEMAND ANALYSIS
SM 5210 B

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09080701	BYA	0.70	1	0.4	2
09080702	HD-1	0.67	1	0.4	2
09080703	HD-12	0.86	1	0.4	2
09080704	W-1	0.68	1	0.4	2
09080705	BYA-3	0.44	1	0.4	2
09080706	HD-30	0.55	1	0.4	2
09080707	HD-22	ND	1	0.4	2
09080708	HD-15	1.5	1	0.4	2
09080709	W-8	0.52	1	0.4	2
090807-MB	Method Blank	ND	1	0.4	2

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AmJoy
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090807
Analyst: GM

Date Sampled: 03/24/09
Date Received: 03/24/09
Date Analyzed: 03/26/09
Sample Matrix: Water

OIL & GREASE ANALYSIS
EPA Method 1664

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09080701	BYA	ND	1	1	5
09080702	HD-1	ND	1	1	5
09080703	HD-12	ND	1	1	5
09080704	W-1	ND	1	1	5
09080705	BYA-3	ND	1	1	5
09080706	HD-30	ND	1	1	5
09080707	HD-22	ND	1	1	5
09080708	HD-15	ND	1	1	5
09080709	W-8	ND	1	1	5
090807-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090807
Analyst: GM

Date Sampled: 03/24/09
Date Received: 03/24/09
Date Analyzed: 03/26/09
Sample Matrix: Water

TOTAL SUSPENDED SOLIDS ANALYSIS
SM 2540 D

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09080701	BYA	2.0	1	1	5
09080702	HD-1	1.6	1	1	5
09080703	HD-12	1.2	1	1	5
09080704	W-1	ND	1	1	5
09080705	BYA-3	2.4	1	1	5
09080706	HD-30	ND	1	1	5
09080707	HD-22	3.6	1	1	5
09080708	HD-15	1.6	1	1	5
09080709	W-8	ND	1	1	5
090807-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AM Jay
Principal Analyst

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CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090807
Analyst: AN

Date Sampled: 03/24/09
Date Received: 03/24/09
Date Analyzed: 03/25/09
Sample Matrix: Water

SETTLEABLE SOLIDS ANALYSIS
SM 2540 F

CAS Lab #	Sample ID	RESULTS (ml/L)	Dilution Factor	PQL (ml/L)
09080701	BYA-4	BQL	1	0.1
09080702	HD-1	BQL	1	0.1
09080703	HD-12	BQL	1	0.1
09080704	W-1	BQL	1	0.1
09080705	BYA-3	BQL	1	0.1
09080706	HD-30	BQL	1	0.1
09080707	HD-22	BQL	1	0.1
09080708	HD-15	BQL	1	0.1
09080709	W-8	BQL	1	0.1

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AMJad
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090807
Analyst: AJ

Date Sampled: 03/24/09
Date Received: 03/24/09
Date Analyzed: 03/25/09
Sample Matrix: Water

TURBIDITY ANALYSIS
EPA Method 180.1

CAS Lab #	Sample ID	RESULTS (NTU)	Dilution Factor	PQL (NTU)
09080701	BYA-4	1.2	1	0.1
09080702	HD-1	1.1	1	0.1
09080703	HD-12	0.85	1	0.1
09080704	W-1	1.2	1	0.1
09080705	BYA-3	2.2	1	0.1
09080706	HD-30	0.80	1	0.1
09080707	HD-22	10.0	1	0.1
09080708	HD-15	2.1	1	0.1
09080709	W-8	1.1	1	0.1

PQL: Practical Quantitation Limit

AMJay
Principal Analyst

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT

Company: FUGRO WEST Fax: 805-650-7010
Address: 4820 McGRATH ST SUITE 100
VENTURA 93003
Phone: 805 650 7000 Contact: Alexis Spencer

BILL TO: **P.O.#**

Company: same
Address:
Phone: Contact:

PROJ. NO: 3399.006.032
PROJECT NAME: BIG ROCK MESA NPDES

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	BaD, Sett. solids, TSS, turbid.	Oil & Grease						REMARKS
1	3/24/09	14:15			BYA-4	X				1/1	P/4	X	X						
2		15:30			HD-6														
3		15:20			HD-12														
4		15:10			W-1														
5		11:40			BYA-3														
6		12:30			HD-30														
7		12:55			HD-22														
8		12:~~45~~			HD-15														
9		12:05			W-8														

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/24/09 4:49				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		

TURN AROUND TIME

24 Hr.	5 Day
48 Hr.	Standard
72 Hr.	Other

WHITE COPY ____ CANARY COPY ____ PINK COPY ____

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

April 2, 2009

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	090829-01
DATE RECEIVED:	27 March - 09
ABC LAB. NO.:	CAP0309.345

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	100 % Survival in 100% Sample
TU(a) =	0.00

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

29 NORTH OLIVE STREET, VENTURA, CA 93001 • (805) 643-5621

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	3/27/2009	Test ID:	CAP0309345	Sample ID:	CA000000
End Date:	3/31/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	3/26/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090829-01				

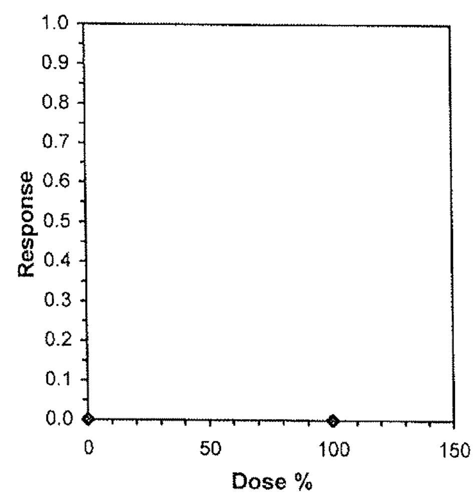
Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000		

			Transform: Arcsin Square Root					Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Mean	N-Mean
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4	1.0000	1.0000
100	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	1.0000	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	1	0.713		
Equality of variance cannot be confirmed				

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

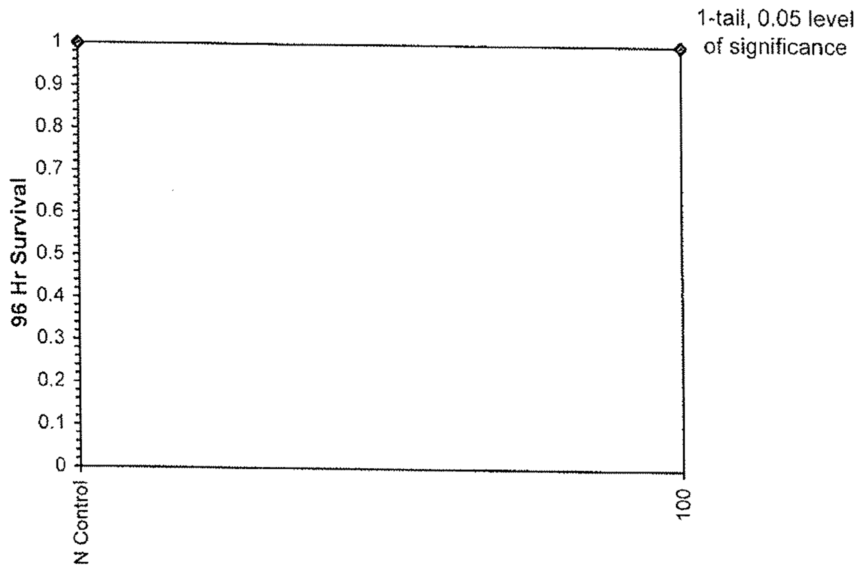


 ToxCalc v5.0.23 Reviewed by: ____

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	3/27/2009	Test ID:	CAP0309345	Sample ID:	CA000000
End Date:	3/31/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	3/26/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090829-01				

Dose-Response Plot



 ToxCalc v5.0.23 Reviewed by:

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	3/27/2009	Test ID:	CAP0309345	Sample ID:	CA000000
End Date:	3/31/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	3/26/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090829-01				

		Auxiliary Data Summary					
Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.33	24.00	25.00	0.58	3.12	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	8.20	8.20	8.20	0.00	0.00	3
100		7.27	7.00	7.70	0.38	8.47	3
N Control	DO mg/L	7.63	6.20	8.80	1.32	15.05	3
100		6.97	6.00	7.60	0.85	13.24	3
N Control	Hardness mg/L	81.00	81.00	81.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	374.00	368.00	385.00	9.54	0.83	3
100		2699.33	2636.00	2787.00	78.39	0.33	3

AQUATIC BIOASSAY & CONSULTING LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

April 2, 2009

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	090829-02
DATE RECEIVED:	27 March - 09
ABC LAB. NO.:	CAP0309.346

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	100 % Survival in 100% Sample
TU(a) =	0.00

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	3/27/2009	Test ID:	CAP0309346	Sample ID:	CA000000
End Date:	3/31/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	3/26/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090829-02				

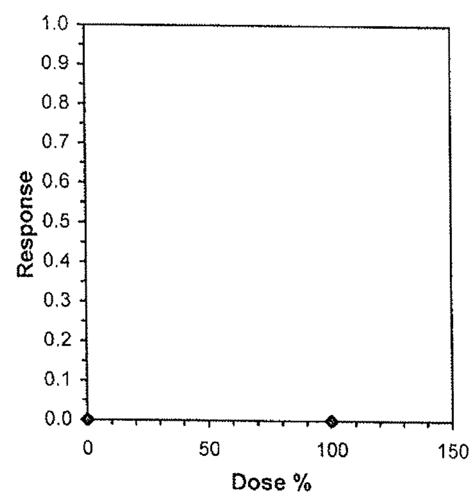
Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000		

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root Mean	Min	Max	CV%	N	Isotonic Mean	Isotonic N-Mean
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4	1.0000	1.0000
100	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	1.0000	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	1	0.713		
Equality of variance cannot be confirmed				

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



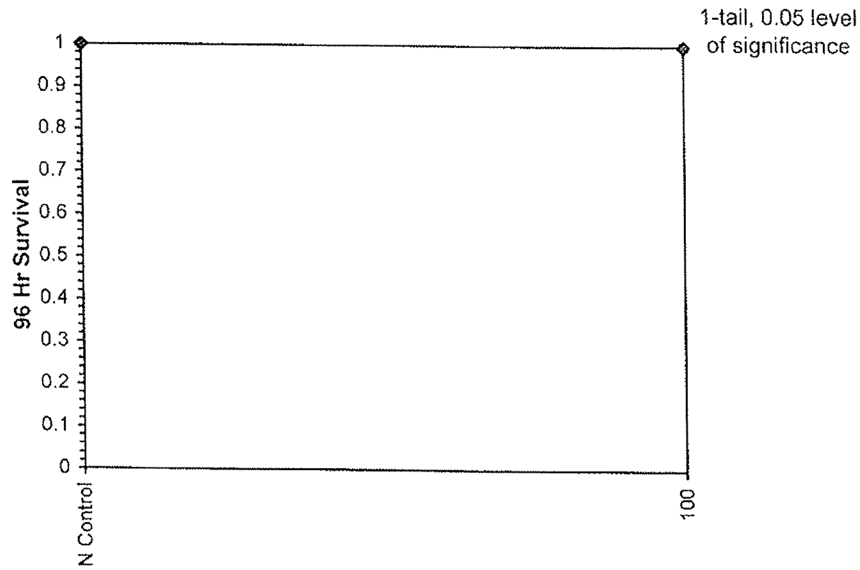
ToxCalc v5.0.23

Reviewed by: ___

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	3/27/2009	Test ID:	CAP0309346	Sample ID:	CA000000
End Date:	3/31/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	3/26/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090829-02				

Dose-Response Plot



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	3/27/2009	Test ID:	CAP0309346	Sample ID:	CA000000
End Date:	3/31/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	3/26/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090829-02				

Conc-%	Parameter	Auxiliary Data Summary					
		Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.33	24.00	25.00	0.58	3.12	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	8.20	8.20	8.20	0.00	0.00	3
100		7.50	7.30	7.80	0.26	6.86	3
N Control	DO mg/L	7.63	6.20	8.80	1.32	15.05	3
100		7.43	6.00	8.40	1.27	15.14	3
N Control	Hardness mg/L	81.00	81.00	81.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		230.00	230.00	230.00	0.00	0.00	3
N Control	Conductivity	374.00	368.00	385.00	9.54	0.83	3
100		2872.33	2847.00	2895.00	24.11	0.17	3

ToxCalc v5.0.23

Reviewed by: [signature]

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

April 2, 2009

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	090829-03
DATE RECEIVED:	27 March - 09
ABC LAB. NO.:	CAP0309.347

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	100 % Survival in 100% Sample
TU(a) =	0.00

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	3/27/2009	Test ID:	CAP0309347	Sample ID:	CA000000
End Date:	3/31/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	3/26/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090829-03				

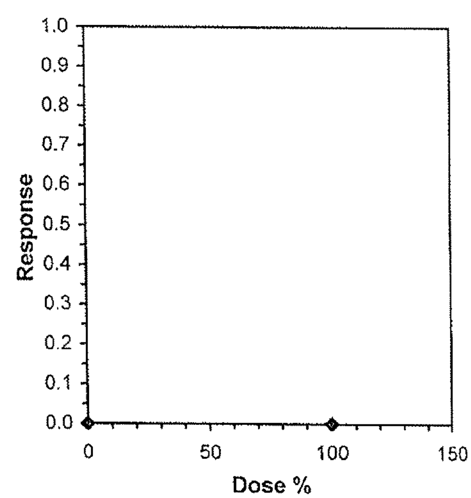
Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000		

			Transform: Arcsin Square Root					Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Mean	N-Mean
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4	1.0000	1.0000
100	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	1.0000	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	1	0.713		
Equality of variance cannot be confirmed				

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

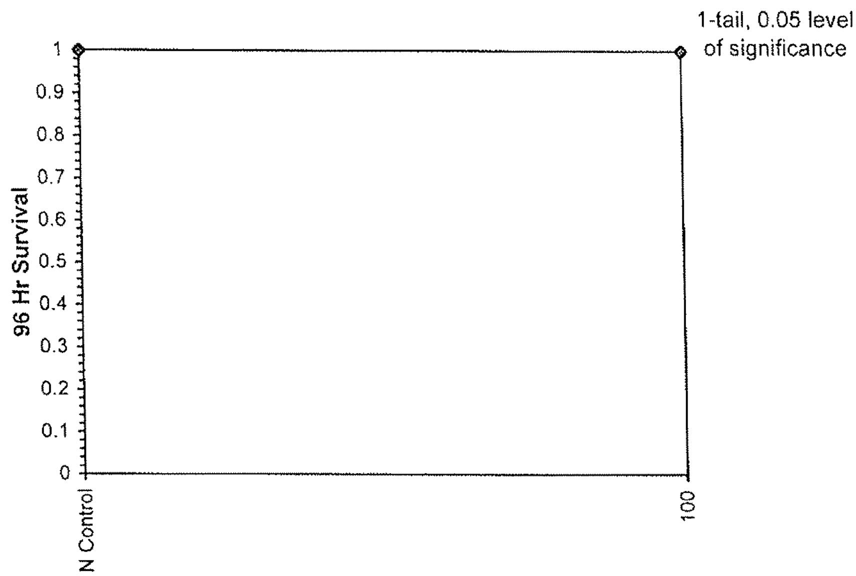


 ToxCalc v5.0.23 Reviewed by: ____

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	3/27/2009	Test ID:	CAP0309347	Sample ID:	CA000000
End Date:	3/31/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	3/26/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090829-03				

Dose-Response Plot



 ToxCalc v5.0.23 Reviewed by:

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	3/27/2009	Test ID:	CAP0309347	Sample ID:	CA000000
End Date:	3/31/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	3/26/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#090829-03				

Conc-%	Parameter	Auxiliary Data Summary Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.33	24.00	25.00	0.58	3.12	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	8.20	8.20	8.20	0.00	0.00	3
100		7.30	7.00	7.70	0.36	8.23	3
N Control	DO mg/L	7.63	6.20	8.80	1.32	15.05	3
100		7.70	6.70	8.70	1.00	12.99	3
N Control	Hardness mg/L	81.00	81.00	81.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	374.00	368.00	385.00	9.54	0.83	3
100		2604.67	2554.00	2675.00	62.85	0.30	3

CAPCO
Analytical Services, Inc

Prepared For:	Fugro West, Inc. 4820 McGrath Street, Suite #100 Ventura, CA 93003-7778	April 9, 2009

ATTENTION: Alexis Spencer

Laboratory No: 090829
Date Received: 26-MAR-09
Project: Big Rock Mesa NPDES
Project No: 3399.006.032

Sampled By: Client
ID: See Below

RESULTS

On March 26, 2009, five (5) samples were received for analysis by Capco Analytical Services, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 3 pages excluding the cover letter, the Chain of Custody and the Sub-Contractor's Reports.

SAMPLE DESCRIPTION	CAS LAB NUMBER
BYA-9	09082901
W-18	09082902
BYA-2	09082903
W-13	09082904
W-16	09082905

Alin E. Repede, MS
Director - Analytical Operations

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 09082904
Sample ID: W-13
Analyst: AN/GM

Date Sampled: 03/26/09
Date Received: 03/26/09
Sample Matrix: Water

WET CHEMISTRY ANALYSIS SUMMARY

COMPOUND	RESULT	UNITS	DF	PQL	MDL	METHOD	ANALYZED
B.O.D.	1.1	mg/L	1	2	0.4	5210 B	03/27/09
Oil & Grease	ND	mg/L	1	5	1.0	1664	03/30/09
T.S.S.	3.0	mg/L	1	5	1.0	2540 D	04/01/09
Turbidity	0.81	NTU	1	0.1	--	180.1	03/26/09

B.O.D.: Biochemical Oxygen Demand
T.S.S.:Total Suspended Solids
MDL: Method Detection Limit
ND: Not Detected
DF: Dilution Factor

AMJay
Principal Analyst

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.
Sample ID: Method Blank
CAS Lab NO: 090829-MB

Sample Matrix: Water
Analyst: AN/GM

WET CHEMISTRY ANALYSIS SUMMARY

COMPOUND	RESULT	UNITS	DF	PQL	MDL	METHOD	ANALYZED
B.O.D.	ND	mg/L	1	2	0.4	5210 B	03/27/09
Oil & Grease	ND	mg/L	1	5	1.0	1664	03/30/09
T.S.S.	ND	mg/L	1	5	1.0	2540 D	04/01/09

B.O.D.: Biochemical Oxygen Demand
T.S.S.:Total Suspended Solids
MDL: Method Detection Limit
ND: Not Detected
DF: Dilution Factor

AMJay
Principal Analyst

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 090829
Analyst: AN

Date Sampled: 03/26/09
Date Received: 03/26/09
Date Analyzed: 03/26/09
Sample Matrix: Water

SETTLEABLE SOLIDS ANALYSIS
SM 2540 F

CAS Lab #	Sample ID	RESULTS (ml/L)	Dilution Factor	PQL (ml/L)
09082901	BYA-9	BQL	1	0.1
09082904	W-13	BQL	1	0.1
09082905	W-16	BQL	1	0.1
090829-MB	Method Blank	BQL	1	0.1

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AMJad
Principal Analyst

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Fax 805 650 7010
Company Fugro West
Address 4820 McGrath St Suite 100
Ventura 93003
Phone 805 650 7000 Contact Alexis Spencer

BILL TO: **P.O.#**
Company Same
Address
Phone Contact

PROJ. NO 3399.006.032
PROJECT NAME BIG ROCK MESA NPDES

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS

090329

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	Acute Toxicity	Settleable Solids	Pb, TSS, Turbidity	Oil & Grease	REMARKS
1	3/26/09	13:15			BYA-9	/				2	P/G	/	/			
2	↓	13:05			W-18	/				1	G	/				
3	↓	14:00			BYA-2	/				1	G	/				
4	↓	13:30			W-13	/				2	P/A		/	/	/	
5	↓	13:45			W-16	/				1	P		/			

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/26/09 15:42	JHMNE			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
	3/26/9 15:42				

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	
72 Hr.		Other	

WHITE COPY____ CANARY COPY____ PINK COPY____

2ND QUARTER

CAPCO
Analytical Services, Inc

Prepared For:	Fugro West, Inc. 4820 McGrath Street, Suite #100 Ventura, CA 93003-7778	May 15, 2009

ATTENTION: Alexis Spencer

Laboratory No: 091113
Date Received: 29-APR-09
Project: BRM
Project No: 3399.006.031

Sampled By: Client
ID: See Below

RESULTS

On April 29, 2009, seven (7) samples were received for analysis by Capco Analytical Services, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 5 pages excluding the cover letter, Chain of Custody and the Sub-Contractor's Report.

SAMPLE DESCRIPTION	CAS LAB NUMBER
W-18	09111301
W-16	09111302
W-17	09111303
HD-42	09111304
HD-9	09111305
BYA-H10	09111306
HD-22	09111307

Alin E. Repede, MS
Director - Analytical Operations

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091113
Analyst: GM

Date Sampled: 04/29/09
Date Received: 04/29/09
Date Analyzed: 04/30/09
Sample Matrix: Water

OIL & GREASE ANALYSIS
EPA Method 1664

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09111301	W-18	ND	1	1	5
09111302	W-16	ND	1	1	5
09111303	W-17	1.4	1	1	5
09111304	HD-42	1.6	1	1	5
09111305	HD-9	ND	1	1	5
09111306	BYA-H10	ND	1	1	5
09111307	HD-22	ND	1	1	5
091113-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Principal Analyst

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091113
Analyst: AN/CR

Date Sampled: 04/29/09
Date Received: 04/29/09
Date Analyzed: 04/30/09
Sample Matrix: Water

BIOCHEMICAL OXYGEN DEMAND ANALYSIS
SM 5210 B

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09111301	W-18	0.51	1	0.4	2
09111302	W-16	ND	1	0.4	2
09111303	W-17	0.40	1	0.4	2
09111304	HD-42	ND	1	0.4	2
09111305	HD-9	ND	1	0.4	2
09111306	BYA-H10	ND	1	0.4	2
09111307	HD-22	ND	1	0.4	2
091113-MB	Method Blank	ND	1	0.4	2

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJad
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091113
Analyst: AN

Date Sampled: 04/29/09
Date Received: 04/29/09
Date Analyzed: 04/30/09
Sample Matrix: Water

TOTAL SUSPENDED SOLIDS ANALYSIS
SM 2540 D

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09111301	W-18	2.0	1	1	5
09111302	W-16	ND	1	1	5
09111303	W-17	ND	1	1	5
09111304	HD-42	ND	1	1	5
09111305	HD-9	4.0	1	1	5
09111306	BYA-H10	3.6	1	1	5
09111307	HD-22	4.8	1	1	5
091113-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091113
Analyst: AN

Date Sampled: 04/29/09
Date Received: 04/29/09
Date Analyzed: 04/30/09
Sample Matrix: Water

SETTLEABLE SOLIDS ANALYSIS
SM 2540 F

CAS Lab #	Sample ID	RESULTS (ml/L)	Dilution Factor	PQL (ml/L)
09111301	W-18	BQL	1	0.1
09111302	W-16	BQL	1	0.1
09111303	W-17	BQL	1	0.1
09111304	HD-42	BQL	1	0.1
09111305	HD-9	BQL	1	0.1
09111306	BYA-H10	BQL	1	0.1
09111307	HD-22	BQL	1	0.1
091113-MB	Method Blank	BQL	1	0.1

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AMJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.	Date Sampled: 04/29/09
CAS LAB NO: 091113	Date Received: 04/29/09
Analyst: AN	Date Analyzed: 04/30/09
	Sample Matrix: Water

TURBIDITY ANALYSIS
EPA Method 180.1

CAS Lab #	Sample ID	RESULTS (NTU)	Dilution Factor	PQL (NTU)
09111301	W-18	3.4	1	0.1
09111302	W-16	1.5	1	0.1
09111303	W-17	1.4	1	0.1
09111304	HD-42	1.2	1	0.1
09111305	HD-9	6.4	1	0.1
09111306	BYA-H10	2.5	1	0.1
09111307	HD-22	8.4	1	0.1

PQL: Practical Quantitation Limit

AMJay
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

May 13, 2009

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	091113
DATE RECEIVED:	30 April - 09
ABC LAB. NO.:	CAP0409.306

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	90 % Survival in 100% Sample
TU(a) =	0.59

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

29 NORTH OLIVE STREET, VENTURA, CA 93001 • (805) 643-5621

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	4/30/2009	Test ID:	CAP0409306	Sample ID:	CA000000
End Date:	5/4/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	4/29/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#091113				

Conc-%	1	2	3	4
N Control	0.9000	1.0000	1.0000	1.0000
100	0.8000	1.0000		

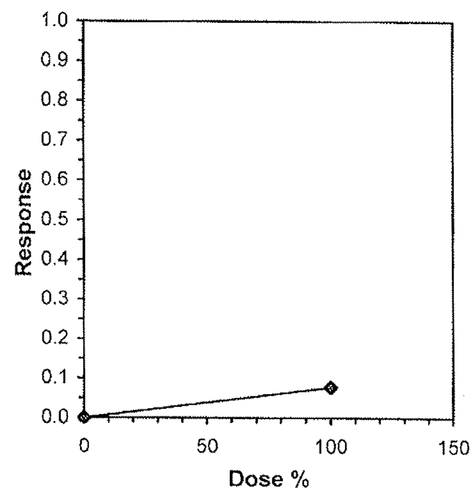
			Transform: Arcsin Square Root						1-Tailed		Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	0.9750	1.0000	1.3713	1.2490	1.4120	5.942	4				0.9750	1.0000
100	0.9000	0.9231	1.2596	1.1071	1.4120	17.115	2	1.001	2.132	0.2379	0.9000	0.9231

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.88057		0.713		-0.3182	-1.0439
F-Test indicates equal variances (p = 0.15)	6.99898		55.5519			
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates no significant differences	0.14012	0.14585	0.01663	0.0166	0.37344	1, 4
Treatments vs N Control						

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05*	65.000			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

* indicates IC estimate less than the lowest concentration

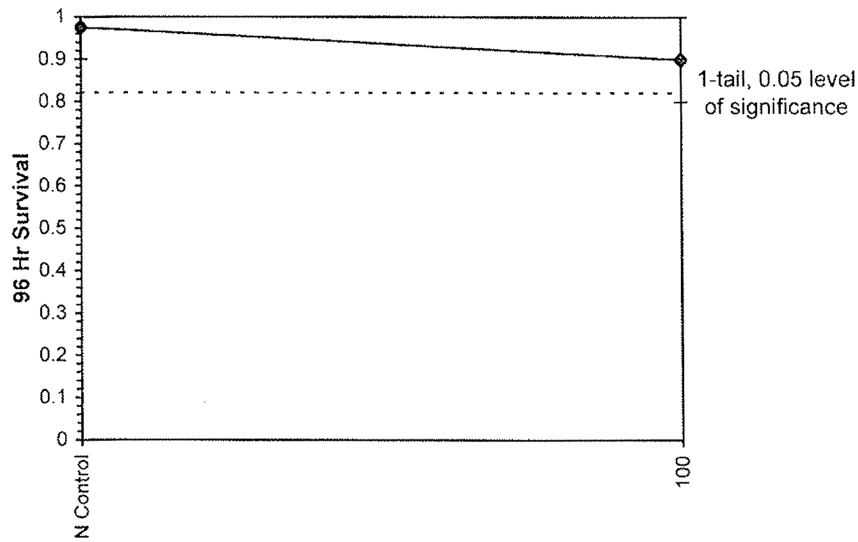


 ToxCalc v5.0.23 Reviewed by: ___

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	4/30/2009	Test ID:	CAP0409306	Sample ID:	CA000000
End Date:	5/4/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	4/29/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#091113				

Dose-Response Plot



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	4/30/2009	Test ID:	CAP0409306	Sample ID:	CA000000
End Date:	5/4/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	4/29/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#091113				

		Auxiliary Data Summary					
Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.37	24.00	25.10	0.64	3.27	3
100		24.03	24.00	24.10	0.06	1.00	3
N Control	pH	7.97	7.90	8.00	0.06	3.02	3
100		7.97	7.70	8.20	0.25	6.30	3
N Control	DO mg/L	8.50	8.00	9.10	0.56	8.78	3
100		8.93	7.90	9.50	0.90	10.60	3
N Control	Hardness mg/L	94.33	93.00	95.00	1.15	1.14	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	63.33	60.00	65.00	2.89	2.68	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	358.00	351.00	367.00	8.19	0.80	3
100		2775.33	2645.00	2875.00	118.03	0.39	3

CAPCO ANALYTICAL SERVICES
1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Company: CAPCO ANALYTICAL SERVICES, INC. Fax:
Address: 1536 EASTMAN AVENUE, SUITE B
VENTURA, CA 93003
Phone: 805-644-1095 Contact: ROSA

BILL TO: P.O.# 927886
Company: CAPCO ANALYTICAL SERVICES, INC.
Address: 1536 EASTMAN AVENUE, SUITE B
VENTURA, CA 93003
Phone: Contact:

PROJ. NO:
PROJECT NAME: ABC LAB

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	ANALYSIS: ACUTE TOX								REMARKS
01	4/29				091113	X					P									
																				Temp = 5.3°C
																				Chlorine = <0.1
																				CHECK ONE BOX:
																				DISPOSE SAMPLES
																				RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	4/30/09 2:45	[signature]			

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	
72 Hr.		Other	

WHITE COPY______ CANARY COPY______ PINK COPY______

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT Fax

Company

Address

Phone Contact

BILL TO: **P.O.#**

Company

Address

Phone Contact

PROJ. NO: 3399.006.031
PROJECT NAME: BRM

SAMPLERS: (Signature) Hutchins [signature]

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

	SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	TYPE	ANALYSIS: O+G	BOD	Set Sol, TSS, Turb	Acute TOX					REMARKS
1	W-18	4/29	10:20			W-18	2/1 P/A						/	/	/	✓					
2	W-16	↓	10:40			W-16	1 TOX									✓					Ø do not analyze W-16 for A.T. per Alexis [initials]
3	W-17		10:50			W-17	2/1 P/A						/	/	/						
4	HD-42		12:00			HD-42	2/1 P/A						/	/	/						
5	HD-9		12:10			HD-9	2/1 P/A						/	/	/						
6	BYA-H10		12:50			BYA-H10	2/1 P/A						/	/	/						
7	HD-22	↓	2:25			HD-22	2/1 P/A						/	/	/						

CHECK ONE BOX:
DISPOSE SAMPLES [ ]
RETURN SAMPLES [ ]

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	4/29/09 4:40pm	[signature]		4/29/09 4:40	

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	X
72 Hr.		Other	

WHITE COPY ______ CANARY COPY ______ PINK COPY ______

CAPCO
Analytical Services, Inc

Prepared For: Fugro West, Inc.
4820 McGrath Street, Suite #100
Ventura, CA 93003-7778

May 15, 2009

ATTENTION: Alexis Spencer

Laboratory No: 091119
Date Received: 30-APR-09
Project: Big Rock Mesa NPDES
Project No: 3399.006.032

Sampled By: Client
ID: See Below

RESULTS

On April 30, 2009, five (5) samples were received for analysis by Capco Analytical Services, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 5 pages excluding the cover letter, Chain of Custody and the Sub-Contractor's Report.

SAMPLE DESCRIPTION	CAS LAB NUMBER
W-2	09111901
BYA-9	09111902
BYA-5	09111903
HD-23	09111904
HD-5	09111905

Alin E. Repede, MS
Director - Analytical Operations

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091119
Analyst: AN/CR

Date Sampled: 04/30/09
Date Received: 04/30/09
Date Analyzed: 04/30/09
Sample Matrix: Water

BIOCHEMICAL OXYGEN DEMAND ANALYSIS
SM 5210 B

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09111903	BYA-5	ND	1	0.4	2
09111904	HD-23	ND	1	0.4	2
09111905	HD-5	ND	1	0.4	2
091119-MB	Method Blank	ND	1	0.4	2

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AmJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091119
Analyst: AN

Date Sampled: 04/30/09
Date Received: 04/30/09
Date Analyzed: 05/01/09
Sample Matrix: Water

TOTAL SUSPENDED SOLIDS ANALYSIS
SM 2540 D

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09111903	BYA-5	ND	1	1	5
09111904	HD-23	ND	1	1	5
09111905	HD-5	ND	1	1	5
091119-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AmJad
~~Principal~~ Analyst

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091119
Analyst: AN

Date Sampled: 04/30/09
Date Received: 04/30/09
Date Analyzed: 05/01/09
Sample Matrix: Water

SETTLEABLE SOLIDS ANALYSIS
SM 2540 F

CAS Lab #	Sample ID	RESULTS (ml/L)	Dilution Factor	PQL (ml/L)
09111903	BYA-5	BQL	1	0.1
09111904	HD-23	BQL	1	0.1
09111905	HD-5	BQL	1	0.1
091119-MB	Method Blank	BQL	1	0.1

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AMTay
Principal Analyst

Client: Fugro West, Inc.
CAS LAB NO: 091119
Analyst: AN

Date Sampled: 04/30/09
Date Received: 04/30/09
Date Analyzed: 05/01/09
Sample Matrix: Water

TURBIDITY ANALYSIS
EPA Method 180.1

CAS Lab #	Sample ID	RESULTS (NTU)	Dilution Factor	PQL (NTU)
09111903	BYA-5	2.2	1	0.1
09111904	HD-23	1.2	1	0.1
09111905	HD-5	1.3	1	0.1

PQL: Practical Quantitation Limit

AMJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091119
Analyst: GM

Date Sampled: 04/30/09
Date Received: 04/30/09
Date Analyzed: 05/01/09
Sample Matrix: Water

OIL & GREASE ANALYSIS
EPA Method 1664

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09111903	BYA-5	ND	1	1	5
09111904	HD-23	ND	1	1	5
09111905	HD-5	ND	1	1	5
091119-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJad

Principal Analyst

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

May 13, 2009

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	091119-01
DATE RECEIVED:	30 April - 09
ABC LAB. NO.:	CAP0409.307

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	95 % Survival in 100% Sample
TU(a) =	0.41

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

29 NORTH OLIVE STREET, VENTURA, CA 93001 • (805) 643-5621

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	5/1/2009	Test ID:	CAP0409307	Sample ID:	CA000000
End Date:	5/5/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	4/30/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#091119-01				

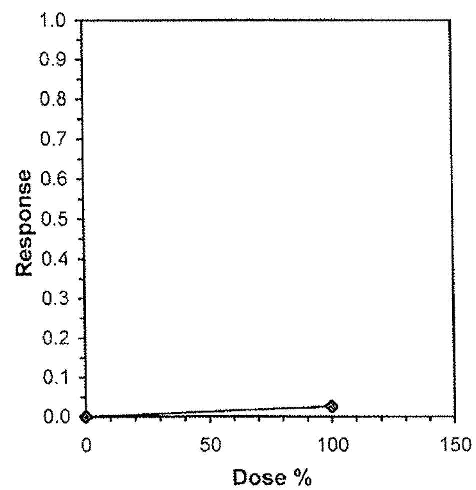
Conc-%	1	2	3	4
N Control	0.9000	1.0000	1.0000	1.0000
100	0.9000	1.0000		

			Transform: Arcsin Square Root						1-Tailed		Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	0.9750	1.0000	1.3713	1.2490	1.4120	5.942	4				0.9750	1.0000
100	0.9500	0.9744	1.3305	1.2490	1.4120	8.661	2	0.516	2.132	0.1682	0.9500	0.9744

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.82308		0.713		-0.9	-1.175
F-Test indicates equal variances (p = 0.50)	2		55.5519			
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates no significant differences	0.08995	0.09363	0.00221	0.0083	0.63281	1, 4
Treatments vs N Control						

Linear Interpolation (200 Resamples)

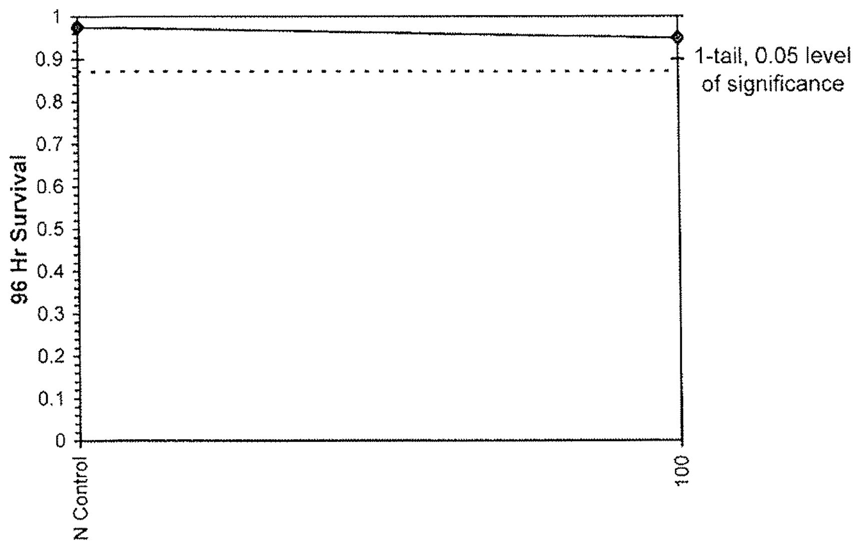
Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



 ToxCalc v5.0.23 Reviewed by: ___

Larval Fish Growth and Survival Test-96 Hr Survival					
Start Date:	5/1/2009	Test ID:	CAP0409307	Sample ID:	CA000000
End Date:	5/5/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	4/30/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#091119-01				

Dose-Response Plot



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	5/1/2009	Test ID:	CAP0409307	Sample ID:	CA000000
End Date:	5/5/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	4/30/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#091119-01				

		Auxiliary Data Summary					
Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.27	24.00	24.80	0.46	2.80	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.97	7.90	8.00	0.06	3.02	3
100		7.83	7.80	7.90	0.06	3.07	3
N Control	DO mg/L	8.63	8.20	9.20	0.51	8.30	3
100		8.13	7.70	8.70	0.51	8.81	3
N Control	Hardness mg/L	95.00	95.00	95.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	64.67	64.00	65.00	0.58	1.18	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	387.00	368.00	423.00	31.19	1.44	3
100		2891.00	2620.00	3030.00	234.72	0.53	3

 Reviewed by:

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

May 13, 2009

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	091119-02
DATE RECEIVED:	30 April - 09
ABC LAB. NO.:	CAP0409.308

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	100 % Survival in 100% Sample
TU(a) =	0.00

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	5/1/2009	Test ID:	CAP0409308	Sample ID:	CA000000
End Date:	5/5/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	4/30/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#091119-02				

Conc-%	1	2	3	4
N Control	0.9000	1.0000	1.0000	1.0000
100	1.0000	1.0000		

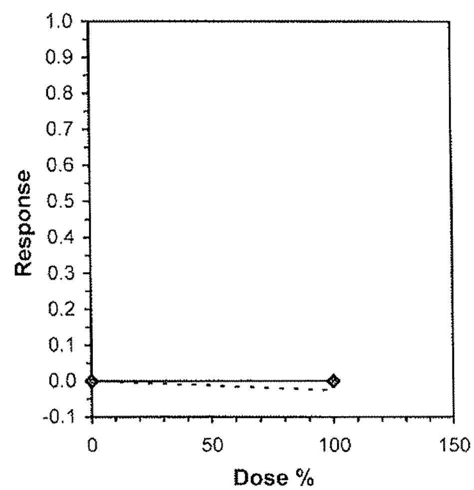
			Transform: Arcsin Square Root						1-Tailed		Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	0.9750	1.0000	1.3713	1.2490	1.4120	5.942	4				0.9875	1.0000
100	1.0000	1.0256	1.4120	1.4120	1.4120	0.000	2	-0.667	2.132	0.1303	0.9875	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.72054	0.713	-1.9365	3.95833
Equality of variance cannot be confirmed				

Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences	0.0656	0.06828	0.00221	0.00498	0.54147	1, 4
Treatments vs N Control						

Linear Interpolation (200 Resamples)

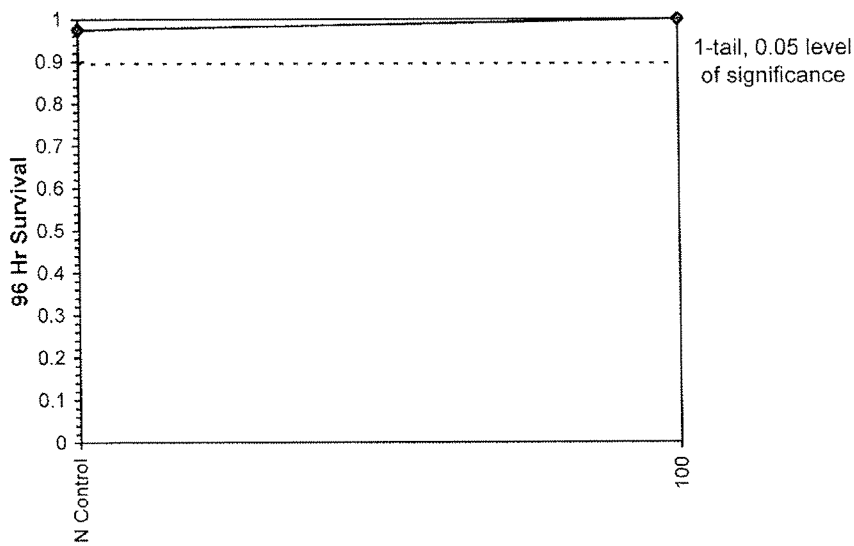
Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	5/1/2009	Test ID:	CAP0409308	Sample ID:	CA000000
End Date:	5/5/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	4/30/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#091119-02				

Dose-Response Plot



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	5/1/2009	Test ID:	CAP0409308	Sample ID:	CA000000
End Date:	5/5/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	4/30/2009	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#091119-02				

		Auxiliary Data Summary					
Conc-%	**Parameter**	**Mean**	**Min**	**Max**	**SD**	**CV%**	**N**
N Control	Temp C	24.27	24.00	24.80	0.46	2.80	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.97	7.90	8.00	0.06	3.02	3
100		7.97	7.80	8.20	0.21	5.73	3
N Control	DO mg/L	8.63	8.20	9.20	0.51	8.30	3
100		8.17	7.70	8.60	0.45	8.22	3
N Control	Hardness mg/L	95.00	95.00	95.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	64.67	64.00	65.00	0.58	1.18	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	387.00	368.00	423.00	31.19	1.44	3
100		3566.33	3457.00	3629.00	95.02	0.27	3

 ToxCalc v5.0.23 Reviewed by: ____

CAPCO ANALYTICAL SERVICES
1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Company: CAPCO ANALYTICAL SERVICES, INC.
Fax:
Address: 1536 EASTMAN AVENUE, SUITE B
VENTURA, CA 93003
Phone: 805-644-1095 Contact: ROSA

BILL TO: P.O.# 927887
Company: CAPCO ANALYTICAL SERVICES, INC.
Address: 1536 EASTMAN AVENUE, SUITE B
VENTURA, CA 93003
Phone: Contact:

PROJ. NO:
PROJECT NAME: ABC LAB
SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS: ACUTE TOXICITY

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	MATRIX: SOIL	MATRIX: SLUDGE	MATRIX: OTHER	CONTAINER #	CONTAINER TYPE	ACUTE TOXICITY	REMARKS
1	4/30	11:10			091119-01	X				1	P	X	
2	↓	11:00			091119-02	X				1	P	X	

REMARKS: Temp = 8.5°C
Chlorine = <0.1

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
J Hune	4/30/09 3:35	[illegible]			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)		Date/Time	

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	
72 Hr.		Other	

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CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT

Company Fugro West
Address 4820 McGrath St Suite 100
Ventura 93003
Phone 805 650 7000 Contact Alexis Spooner
Fax 805 650 7010

BILL TO:

Company
Address
Phone Contact

P.O.#

PROJ. NO 3399.006.032

PROJECT NAME BIG ROCK MESA NPDES

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	Sett. Solids, TSS, Turbidity	Oil & Grease	BOD	Acute Toxicity					REMARKS
1	4/30	11:10			W-2	X				2/1	P/A				/					
2		12:00			BYA-9										/					
		11:20			BYA-5							/	/	/						
		13:30			HD-23							/	/	/						
		13:40			HD-5							/	/	/						

091 19

CHECK ONE BOX:
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Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	4/30/09 15:10				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
	4/30/09 15:70	J HUNE			

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	X
72 Hr.		Other	

WHITE COPY CANARY COPY PINK COPY

CAPCO
Analytical Services, Inc

Prepared For: Fugro West
4820 McGrath St. Suite 100
Ventura, CA 93003

June 1, 2009

ATTENTION: Alexis Spencer

Laboratory No: 091302
Date Received: 26-MAY-09
Project: Big Rock Mesa NPDES
Project No: 3399.006.032

Sampled By: Client
ID: See Below

RESULTS

On May 26, 2009, four(4) samples were received for analysis by Capco Analytical Services, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 9 pages excluding the cover letter and the Chain of Custody.

SAMPLE DESCRIPTION	CAS LAB NUMBER
W-18	09130201
HD-42	09130202
W-16	09130203
HD-9	09130204

Alin E. Repede, MS
Director - Analytical Operations

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.	Date Sampled: 05/20/09
CAS LAB NO: 091302	Date Received: 05/21/09
Analyst: AN	Date Analyzed: 05/21/09
	Sample Matrix: Water

BIOCHEMICAL OXYGEN DEMAND ANALYSIS
SM 5210 B

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09130201	W-18	0.65	1	0.4	2
09130202	HD-42	2.0	1	0.4	2
09130203	W-16	ND	1	0.4	2
09130204	HD-9	ND	1	0.4	2
091302-MB	Method Blank	ND	1	0.4	2

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091302
Analyst: GM

Date Sampled: 05/20/09
Date Received: 05/21/09
Date Analyzed: 05/22/09
Sample Matrix: Water

MBAS ANALYSIS
SM 5540 C

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09130201	W-18	ND	1	0.02	0.1
09130202	HD-42	ND	1	0.02	0.1
09130203	W-16	ND	1	0.02	0.1
09130204	HD-9	ND	1	0.02	0.1
091302-MB	Method Blank	ND	1	0.02	0.1

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJad

Principal Analyst

Client: Fugro West, Inc.
CAS LAB NO: 091302
Analyst: GM

Date Sampled: 05/20/09
Date Received: 05/21/09
Date Analyzed: 05/22/09
Sample Matrix: Water

OIL & GREASE ANALYSIS
EPA Method 1664

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09130201	W-18	ND	1	1	5
09130202	HD-42	ND	1	1	5
09130203	W-16	ND	1	1	5
09130204	HD-9	ND	1	1	5
091302-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091302
Analyst: AJ

Date Sampled: 05/20/09
Date Received: 05/21/09
Date Analyzed: 05/28/09
Sample Matrix: Water

TOTAL PHENOL ANALYSIS
EPA METHOD 420.1

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/L)	PQL (mg/L)
09130201	W-18	ND	1	0.02	0.1
09130202	HD-42	ND	1	0.02	0.1
09130203	W-16	ND	1	0.02	0.1
09130204	HD-9	ND	1	0.02	0.1
091302-MB	Method Blank	ND	1	0.02	0.1

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091302
Analyst: AN

Date Sampled: 05/20/09
Date Received: 05/21/09
Date Analyzed: 05/22/09
Sample Matrix: Water

SETTLEABLE SOLIDS ANALYSIS
SM 2540 F

CAS Lab #	Sample ID	RESULTS (ml/L)	Dilution Factor	PQL (ml/L)
09130201	W-18	BQL	1	0.1
09130202	HD-42	BQL	1	0.1
09130203	W-16	BQL	1	0.1
09130204	HD-9	BQL	1	0.1
091302-MB	Method Blank	BQL	1	0.1

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AmJac
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091302
Analyst: AN

Date Sampled: 05/20/09
Date Received: 05/21/09
Date Analyzed: 05/28/09
Sample Matrix: Water

TOTAL SULFIDE ANALYSIS
SM 4500-S^{-2}D

CAS LAB #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/L)	PQL (mg/L)
09130201	W-18	0.006	1	0.004	0.02
09130202	HD-42	0.006	1	0.004	0.02
09130203	W-16	ND	1	0.004	0.02
09130204	HD-9	0.005	1	0.004	0.02
090574-MB	Method Blank	ND	1	0.004	0.02

ND: Not Detected
MDL: Method Detection Limit
BQL: Below Practical Quantitation Limit

AMJad
Principal Analyst

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091302
Analyst: AN

Date Sampled: 05/20/09
Date Received: 05/21/09
Date Analyzed: 05/22/09
Sample Matrix: Water

TOTAL SUSPENDED SOLIDS ANALYSIS
SM 2540 D

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09130201	W-18	4.8	1	1	5
09130202	HD-42	ND	1	1	5
09130203	W-16	ND	1	1	5
09130204	HD-9	2.0	1	1	5
091302-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJac
Principal Analyst

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CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091302
Analyst: AN

Date Sampled: 05/20/09
Date Received: 05/21/09
Date Analyzed: 05/22/09
Sample Matrix: Water

TURBIDITY ANALYSIS
EPA Method 180.1

CAS Lab #	Sample ID	RESULTS (NTU)	Dilution Factor	PQL (NTU)
09130201	W-18	6.6	1	0.1
09130202	HD-42	1.4	1	0.1
09130203	W-16	1.4	1	0.1
09130204	HD-9	2.1	1	0.1

PQL: Practical Quantitation Limit

AMJac

Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091302
Analyst: GM

Date Sampled: 05/20/09
Date Received: 05/21/09
Date Analyzed: 05/21/09
Sample Matrix: Water

pH ANALYSIS
SM 4500-$^{H+}$ B

CAS Lab #	Sample ID	RESULTS (S.U.)
09130201	W-18	6.9
09130202	HD-42	6.9
09130203	W-16	6.9
09130204	HD-9	7.2

Principal Analyst

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CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT

Company: Fugro West
Fax: 805 650 7010
Address: 4820 McGrath St Suite 100
Ventura 93003
Phone: 805 650 7000 Contact: Alexis Spencer

BILL TO: **P.O.#**

Company
Address
Phone Contact

PROJ. NO: 3349.006.032
PROJECT NAME: BIG ROCK MESA - NPDES

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS: BOD, Phenols, Oil & Grease, Sulfides, Settle Solids, pH, TSS, turbidity, MBAS

REMARKS

091302

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	TYPE	BOD	Phenols	Oil & Grease	Sulfides	Settle Solids	pH, TSS, turbidity, MBAS			REMARKS
1	5/20/09	12:00			W-18	✓				4/2	P/A	✓	✓	✓	✓	✓	✓			
2	↓	12:20			HD-43	✓				↓	↓	↓	↓	↓	↓	↓	↓			
3	↓	14:00			W-16	✓				↓	↓	↓	↓	↓	↓	↓	↓			
4	↓	14:20			HD-9	✓				↓	↓	↓	↓	↓	↓	↓	↓			

CHECK ONE BOX:
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The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	5/21/09 15:55				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
		[signature]	5/21/09 4:00		

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	X
72 Hr.		Other	

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CAPCO
Analytical Services, Inc

Prepared For:	Fugro West, Inc. 4820 McGrath Street, Suite #100 Ventura, CA 93003-7778	June 25, 2009

ATTENTION: Alexis Spencer

Laboratory No: 091555
Date Received: 18-JUN-09
Project: Big Rock Mesa NPDES
Project No: 3399.006.032

Sampled By: Client
ID: See Below

RESULTS

On June 18, 2009, ten (10) samples were received for analysis by Capco Analytical Services, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 9 pages excluding the cover letter and the Chain of Custody.

SAMPLE DESCRIPTION	CAS LAB NUMBER
W-18	09155501
W-16	09155502
W-17	09155503
HD-42	09155504
BYA-5	09155505
HD-9	09155506
BYA-H10	09155507
HD-22	09155508
HD-5	09155509
HD-23	09155510

Alin E. Repede, MS
Director - Analytical Operations

Client: Fugro West, Inc.
CAS LAB NO: 091555
Analyst: GM

Date Sampled: 06/18/09
Date Received: 06/18/09
Date Analyzed: 06/19/09
Sample Matrix: Water

OIL & GREASE ANALYSIS
EPA Method 1664

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09155501	W-18	ND	1	1	5
09155502	W-16	ND	1	1	5
09155503	W-17	ND	1	1	5
09155504	HD-42	ND	1	1	5
09155505	BYA-5	ND	1	1	5
09155506	HD-9	ND	1	1	5
09155507	BYA-H10	ND	1	1	5
09155508	HD-22	ND	1	1	5
09155509	HD-5	ND	1	1	5
09155510	HD-23	ND	1	1	5
091555-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091555
Analyst: AN

Date Sampled: 06/18/09
Date Received: 06/18/09
Date Analyzed: 06/19/09
Sample Matrix: Water

BIOCHEMICAL OXYGEN DEMAND ANALYSIS
SM 5210 B

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09155501	W-18	0.50	1	0.4	2
09155502	W-16	ND	1	0.4	2
09155503	W-17	0.42	1	0.4	2
09155504	HD-42	0.52	1	0.4	2
09155505	BYA-5	0.42	1	0.4	2
09155506	HD-9	0.48	1	0.4	2
09155507	BYA-H10	0.54	1	0.4	2
09155508	HD-22	ND	1	0.4	2
09155509	HD-5	0.57	1	0.4	2
09155510	HD-23	0.60	1	0.4	2
091555-MB	Method Blank	ND	1	0.4	2

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091555
Analyst: GM

Date Sampled: 06/18/09
Date Received: 06/18/09
Date Analyzed: 06/19/09
Sample Matrix: Water

MBAS ANALYSIS
SM 5540 C

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09155501	W-18	ND	1	0.02	0.1
09155502	W-16	ND	1	0.02	0.1
09155503	W-17	ND	1	0.02	0.1
09155504	HD-42	ND	1	0.02	0.1
09155505	BYA-5	ND	1	0.02	0.1
09155506	HD-9	ND	1	0.02	0.1
09155507	BYA-H10	ND	1	0.02	0.1
09155508	HD-22	ND	1	0.02	0.1
09155509	HD-5	ND	1	0.02	0.1
09155510	HD-23	ND	1	0.02	0.1
091555-MB	Method Blank	ND	1	0.02	0.1

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091555
Analyst: AN

Date Sampled: 06/18/09
Date Received: 06/18/09
Date Analyzed: 06/22/09
Sample Matrix: Water

SETTLEABLE SOLIDS ANALYSIS
SM 2540 F

CAS Lab #	Sample ID	RESULTS (ml/L)	Dilution Factor	PQL (ml/L)
09155501	W-18	BQL	1	0.1
09155502	W-16	BQL	1	0.1
09155503	W-17	BQL	1	0.1
09155504	HD-42	BQL	1	0.1
09155505	BYA-5	BQL	1	0.1
09155506	HD-9	BQL	1	0.1
09155507	BYA-H10	BQL	1	0.1
09155508	HD-22	BQL	1	0.1
09155509	HD-5	BQL	1	0.1
09155510	HD-23	BQL	1	0.1
091555-MB	Method Blank	BQL	1	0.1

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AMJay
~~Principal~~ Analyst

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091555
Analyst: AN

Date Sampled: 06/18/09
Date Received: 06/18/09
Date Analyzed: 06/22/09
Sample Matrix: Water

TOTAL SUSPENDED SOLIDS ANALYSIS
SM 2540 D

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
09155501	W-18	ND	1	1	5
09155502	W-16	ND	1	1	5
09155503	W-17	ND	1	1	5
09155504	HD-42	ND	1	1	5
09155505	BYA-5	ND	1	1	5
09155506	HD-9	ND	1	1	5
09155507	BYA-H10	ND	1	1	5
09155508	HD-22	2.0	1	1	5
09155509	HD-5	ND	1	1	5
09155510	HD-23	ND	1	1	5
091555-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Principal Analyst

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CAPCO Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 091555
Analyst: AN

Date Sampled: 06/18/09
Date Received: 06/18/09
Date Analyzed: 06/19/09
Sample Matrix: Water

TURBIDITY ANALYSIS
EPA Method 180.1

CAS Lab #	Sample ID	RESULTS (NTU)	Dilution Factor	PQL (NTU)
09155501	W-18	1.4	1	0.1
09155502	W-16	0.62	1	0.1
09155503	W-17	0.62	1	0.1
09155504	HD-42	0.59	1	0.1
09155505	BYA-5	0.57	1	0.1
09155506	HD-9	0.84	1	0.1
09155507	BYA-H10	0.47	1	0.1
09155508	HD-22	2.7	1	0.1
09155509	HD-5	0.67	1	0.1
09155510	HD-23	0.66	1	0.1

PQL: Practical Quantitation Limit

AMJay
Principal Analyst

CAPCO ANALYTICAL SERVICES
1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Fax 805 650 7010
Company FUGRO WEST INC
Address 4820 McGRATH ST SUITE 100
VENTURA 93003
Phone 805 650 7000 Contact

BILL TO: | **P.O.#**
Company
Address
Phone Contact

PROJ. NO 3399.006.032
PROJECT NAME BIG ROCK MESA NPDES
SAMPLERS: (Signature) [signature]

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

REMARKS
NPDES Project
091555

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	MATRIX: SOIL	MATRIX: SLUDGE	MATRIX: OTHER	CONTAINER #	CONTAINER TYPE	ANALYSIS: O&G	BOD	MBAS, Sett. Solids,	TSS, Turbidity					REMARKS
1	6-18-09	10:40			W-18							✓	✓	✓	✓					pH: 6.93 T: 23.5
2		10:50			W-16															6.85 22.8
3		11:00			W-17															7.00 22.2
4		11:50			HD-42															6.99 21.5
5		14:25			BYA-5															6.96 25.5
6		14:45			HD-9															7.03 21.8
7		14:55			BYA-H10															6.96 22.1
8		15:05			HD-22															7.11 21.8
9		15:10			HD-5															7.10 22.2
10		15:15			HD-23															7.05 22.3

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6/18/09 16:35				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
		[signature]	6/18/09 4:35		

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	X
72 Hr.		Other	

WHITE COPY ____ CANARY COPY ____ PINK COPY ____

3RD QUARTER

CAPCO
Analytical Services, Inc

Prepared For:	Fugro West, Inc. 4820 McGrath St., Suite 100 Ventura, CA 93003	September 3, 2008

ATTENTION: Alexis Spencer

Laboratory No: 082333
Date Received: 26-AUG-08
Project: Big Rock Mesa NPDES Water Testing
Project No: 3399.006.032

Sampled By: Client
ID: See Below

RESULTS

On August 26, 2008, ten (10) samples were received for analysis by Capco Analytical Services, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 8 pages excluding the cover letter and the Chain of Custody.

SAMPLE DESCRIPTION	CAS LAB NUMBER
BYA - 2	08233301
BYA - 4	08233302
BYA - 1	08233303
BYA - 11	08233304
BYA - 13	08233305
BYA - 6	08233306
FW - 1	08233307
HD - 4	08233308
HD - 30	08233309
HD - 12	08233310

Alin E. Repede, MS
Director - Analytical Operations

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 082333
Analyst: CR/AN

Date Sampled: 08/26/08
Date Received: 08/26/08
Date Analyzed: 08/27/08
Sample Matrix: Water

TURBIDITY ANALYSIS
EPA Method 180.1

CAS Lab #	Sample ID	RESULTS (NTU)	Dilution Factor	PQL (NTU)
08233301	BYA - 2	4.3	1	0.1
08233302	BYA - 4	2.2	1	0.1
08233303	BYA - 1	4.0	1	0.1
08233304	BYA - 11	0.42	1	0.1
08233305	BYA - 13	2.4	1	0.1
08233306	BYA - 6	1.9	1	0.1
08233307	FW - 1	0.52	1	0.1
08233308	HD - 4	0.18	1	0.1
08233309	HD - 30	0.11	1	0.1
08233310	HD - 12	0.14	1	0.1

PQL: Practical Quantitation Limit

AMJay
Laboratory Supervisor

Analit Aivazyan
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 082333
Analyst: AN

Date Sampled: 08/26/08
Date Received: 08/26/08
Date Analyzed: 08/26/08
Sample Matrix: Water

RESIDUAL CHLORINE ANALYSIS
SM 4500-CL$^-$G

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	PQL (mg/L)
08233301	BYA - 2	BQL	1	0.1
08233302	BYA - 4	BQL	1	0.1
08233303	BYA - 1	BQL	1	0.1
08233304	BYA - 11	BQL	1	0.1
08233305	BYA - 13	BQL	1	0.1
08233306	BYA - 6	BQL	1	0.1
08233307	FW - 1	BQL	1	0.1
08233308	HD - 4	BQL	1	0.1
08233309	HD - 30	BQL	1	0.1
08233310	HD - 12	BQL	1	0.1
082333-MB	Method Blank	BQL	1	0.1

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AMJad
Laboratory Supervisor

Anahit Aivazyan
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 082333
Analyst: CR

Date Sampled: 08/26/08
Date Received: 08/26/08
Date Analyzed: 08/26/08
Sample Matrix: Water

SETTLEABLE SOLIDS ANALYSIS
SM 2540 F

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	PQL (mg/L)
08233301	BYA - 2	BQL	1	0.1
08233302	BYA - 4	BQL	1	0.1
08233303	BYA - 1	BQL	1	0.1
08233304	BYA - 11	BQL	1	0.1
08233305	BYA - 13	BQL	1	0.1
08233306	BYA - 6	0.10	1	0.1
08233307	FW - 1	BQL	1	0.1
08233308	HD - 4	BQL	1	0.1
08233309	HD - 30	BQL	1	0.1
08233310	HD - 12	BQL	1	0.1

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AmJay
Laboratory Supervisor

Anahit Avaregan
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 082333
Analyst: CR

Date Sampled: 08/26/08
Date Received: 08/26/08
Date Analyzed: 08/26/08
Sample Matrix: Water

pH ANALYSIS
SM 4500-$^{H+}$ B

CAS Lab #	Sample ID	RESULTS (S.U.)
08233301	BYA - 2	6.8
08233302	BYA - 4	6.8
08233303	BYA - 1	6.7
08233304	BYA - 11	7.3
08233305	BYA - 13	6.7
08233306	BYA - 6	6.8
08233307	FW - 1	7.5
08233308	HD - 4	7.2
08233309	HD - 30	7.2
08233310	HD - 12	7.2

AMJad
Laboratory Supervisor

Anahit Aivazyan
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.	Date Sampled: 08/26/08
CAS LAB NO: 082333	Date Received: 08/26/08
Analyst: GM	Date Analyzed: 08/28/08
	Sample Matrix: Water

OIL & GREASE ANALYSIS
EPA Method 1664

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	PQL (mg/L)
08233301	BYA - 2	BQL	1	5
08233302	BYA - 4	BQL	1	5
08233303	BYA - 1	BQL	1	5
08233304	BYA - 11	BQL	1	5
08233305	BYA - 13	BQL	1	5
08233306	BYA - 6	BQL	1	5
08233307	FW - 1	BQL	1	5
08233308	HD - 4	BQL	1	5
08233309	HD - 30	BQL	1	5
08233310	HD - 12	BQL	1	5
082333-MB	Method Blank	BQL	1	5

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AMJay
Laboratory Supervisor

Anahit Givargyan
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 082333
Analyst: AN

Date Sampled: 08/26/08
Date Received: 08/26/08
Date Analyzed: 08/26/08
Sample Matrix: Water

BIOCHEMICAL OXYGEN DEMAND ANALYSIS
SM 5210 B

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	PQL (mg/L)
08233301	BYA - 2	BQL	1	2
08233302	BYA - 4	BQL	1	2
08233303	BYA - 1	BQL	1	2
08233304	BYA - 11	BQL	1	2
08233305	BYA - 13	BQL	1	2
08233306	BYA - 6	BQL	1	2
08233307	FW - 1	BQL	1	2
08233308	HD - 4	BQL	1	2
08233309	HD - 30	BQL	1	2
08233310	HD - 12	BQL	1	2
082333-MB	Method Blank	BQL	1	2

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AmJay
Laboratory Supervisor

Anahit Aivazyan
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 082333
Analyst: CR

Date Sampled: 08/26/08
Date Received: 08/26/08
Date Analyzed: 08/28/08
Sample Matrix: Water

TOTAL SUSPENDED SOLIDS ANALYSIS
SM 2540 D

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	PQL (mg/L)
08233301	BYA - 2	BQL	1	5
08233302	BYA - 4	BQL	1	5
08233303	BYA - 1	BQL	1	5
08233304	BYA - 11	BQL	1	5
08233305	BYA - 13	15	1	5
08233306	BYA - 6	28	1	5
08233307	FW - 1	BQL	1	5
08233308	HD - 4	BQL	1	5
08233309	HD - 30	BQL	1	5
08233310	HD - 12	BQL	1	5
082333-MB	Method Blank	BQL	1	5

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AMJay
Laboratory Supervisor

Analit Aivazyan
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 082333
Analyst: GM

Date Sampled: 08/26/08
Date Received: 08/26/08
Date Analyzed: 08/27/08
Sample Matrix: Water

MBAS ANALYSIS
SM 5540 C

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	PQL (mg/L)
08233301	BYA - 2	BQL	1	0.1
08233302	BYA - 4	BQL	1	0.1
08233303	BYA - 1	BQL	1	0.1
08233304	BYA - 11	BQL	1	0.1
08233305	BYA - 13	BQL	1	0.1
08233306	BYA - 6	BQL	1	0.1
08233307	FW - 1	BQL	1	0.1
08233308	HD - 4	BQL	1	0.1
08233309	HD - 30	BQL	1	0.1
08233310	HD - 12	BQL	1	0.1
082333-MB	Method Blank	BQL	1	0.1

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AMJAY
~~Laboratory~~ Supervisor

Arahit Airazyan
Principal Analyst

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Fax 805 650 7010
Company FUGRO WEST
Address 4820 McGRATH ST.
VENTURA, CA. 93003
Phone 805 650 7000 Contact ALEXIS J.

BILL TO:
Company SAME
Address
Phone Contact

P.O.# 3399.006

PROJ. NO 3399.006.032
PROJECT NAME BIG ROCK MESA NPDES WATER TESTING

SAMPLERS: (Signature) JOHN OSTER John Oster

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS: PH BOD / SETTLEABLE SOLIDS / OIL & GREASE / TSS MBAS TURBIDITY / RES CHLORINE

REMARKS: 082333

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	PH BOD	SETTLEABLE SOLIDS	OIL & GREASE	TSS MBAS TURBIDITY	RES CHLORINE			TEMP C
1	8.26	915A		✓	BYA-2	✓				4/1	PA	✓	✓	✓	✓	✓			22.3
2		945A			BYA-4														22.5
3		1010			BYA-1														22.3
4		1040			BYA-11														22.5
5		1105			BYA-13														22.4
6		1130			BYA-6														22.1
7		1200P			EW-1														27.5
8		1220			HD-4														22.3
9		1245			HD-30														22.3
10		100P			HD-12														22.6

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
John Oster	8.26.08 245P	[signature]			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
	8-26-08 9:45				

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	X
72 Hr.		Other	

WHITE COPY ____ CANARY COPY ____ PINK COPY ____

4TH QUARTER

CAPCO
Analytical Services, Inc

Prepared For:	Fugro West, Inc. 4820 McGrath Street, Suite #100 Ventura, CA 93003-7778	December 3, 2008

ATTENTION: Alexis Spencer

Laboratory No: 083186 — Sampled By: Client
Date Received: 19-NOV-08 — ID: See Below
Project: Big Rock Mesa NPDES Task 32 Water Quality
Project No: 3399.006

RESULTS

On November 19, 2008, ten (10) samples were received for analysis by Capco Analytical Services, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 9 pages excluding the cover letter, Chain of Custody and the Sub-Contractor's Reports.

SAMPLE DESCRIPTION	CAS LAB NUMBER
W-18	08318601
BYA-10	08318602
W-16	08318603
BYA-7	08318604
BYA-9	08318605
W-2	08318606
BYA-14	08318607
BYA-H10	08318608
HD-26	08318609
HD-23	08318610

Alin E. Repede, MS
Director - Analytical Operations

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 083188
Analyst: AN

Date Sampled: 11/19/08
Date Received: 11/19/08
Date Analyzed: 11/20/08 & 11/21/08
Sample Matrix: Water

OIL & GREASE ANALYSIS
EPA Method 1664

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
08318801	W-18	ND	1	1	5
08318802	BYA-10	ND	1	1	5
08318803	W-16	ND	1	1	5
08318804	BYA-7	ND	1	1	5
08318805	BYA-9	ND	1	1	5
08318806	W-2	ND	1	1	5
08318807	BYA-14	ND	1	1	5
08318808	BYA-H10	ND	1	1	5
08318809	HD-26	ND	1	1	5
08318810	HD-23	ND	1	1	5
083188-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJAC
~~Laboratory~~ Supervisor

Anahit Aivazyan
Principal Analyst

CAPCO

Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 083188
Analyst: AN

Date Sampled: 11/19/08
Date Received: 11/19/08
Date Analyzed: 11/28/08
Sample Matrix: Water

TOTAL SULFIDE ANALYSIS
SM 4500-S^{-2}D

CAS LAB #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/L)	PQL (mg/L)
08318801	W-18	ND	1	0.004	0.02
08318802	BYA-10	ND	1	0.004	0.02
08318803	W-16	ND	1	0.004	0.02
08318804	BYA-7	ND	1	0.004	0.02
08318805	BYA-9	ND	1	0.004	0.02
08318806	W-2	ND	1	0.004	0.02
08318807	BYA-14	ND	1	0.004	0.02
08318808	BYA-H10	ND	1	0.004	0.02
08318809	HD-26	ND	1	0.004	0.02
08318810	HD-23	ND	1	0.004	0.02
083188-MB	Method Blank	ND	1	0.004	0.02

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AMJay
Laboratory Supervisor

Aralist Aivazyan
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 083188
Analyst: AN/AJ

Date Sampled: 11/19/08
Date Received: 11/19/08
Date Analyzed: 11/25/08
Sample Matrix: Water

TOTAL PHENOL ANALYSIS
EPA METHOD 420.1

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/L)	PQL (mg/L)
08318801	W-18	ND	1	0.02	0.1
08318802	BYA-10	ND	1	0.02	0.1
08318803	W-16	ND	1	0.02	0.1
08318804	BYA-7	ND	1	0.02	0.1
08318805	BYA-9	ND	1	0.02	0.1
08318806	W-2	ND	1	0.02	0.1
08318807	BYA-14	ND	1	0.02	0.1
08318808	BYA-H10	ND	1	0.02	0.1
08318809	HD-26	ND	1	0.02	0.1
08318810	HD-23	ND	1	0.02	0.1
083188-MB	Method Blank	ND	1	0.02	0.1

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Laboratory Supervisor

Anahit Aivazyan
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 083188
Analyst: AN

Date Sampled: 11/19/08
Date Received: 11/19/08
Date Analyzed: 11/19/08
Sample Matrix: Water

TURBIDITY ANALYSIS
EPA Method 180.1

CAS Lab #	Sample ID	RESULTS (NTU)	Dilution Factor	PQL (NTU)
08318801	W-18	3.3	1	0.1
08318802	BYA-10	1.1	1	0.1
08318803	W-16	0.50	1	0.1
08318804	BYA-7	7.2	1	0.1
08318805	BYA-9	1.6	1	0.1
08318806	W-2	5.0	1	0.1
08318807	BYA-14	0.75	1	0.1
08318808	BYA-H10	0.54	1	0.1
08318809	HD-26	0.46	1	0.1
08318810	HD-23	0.47	1	0.1

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AN Jay
Laboratory Supervisor

Analit Aivazyan
Principal Analyst

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CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.	Date Sampled: 11/19/08
CAS LAB NO: 083188	Date Received: 11/19/08
Analyst: AN	Date Analyzed: 11/19/08
	Sample Matrix: Water

pH ANALYSIS
SM 4500-$^{H+}$ B

CAS Lab #	Sample ID	RESULTS (S.U.)
08318801	W-18	6.9
08318802	BYA-10	7.1
08318803	W-16	7.1
08318804	BYA-7	7.3
08318805	BYA-9	6.6
08318806	W-2	6.7
08318807	BYA-14	6.9
08318808	BYA-H10	7.1
08318809	HD-26	7.0
08318810	HD-23	7.0

Angay
Laboratory Supervisor

Analit Aivazyan
Principal Analyst

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.	Date Sampled: 11/19/08
CAS LAB NO: 083188	Date Received: 11/19/08
Analyst: AN	Date Analyzed: 11/20/08
	Sample Matrix: Water

MBAS ANALYSIS
SM 5540 C

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
08318801	W-18	ND	1	0.02	0.1
08318802	BYA-10	ND	1	0.02	0.1
08318803	W-16	ND	1	0.02	0.1
08318804	BYA-7	ND	1	0.02	0.1
08318805	BYA-9	ND	1	0.02	0.1
08318806	W-2	ND	1	0.02	0.1
08318807	BYA-14	ND	1	0.02	0.1
08318808	BYA-H10	ND	1	0.02	0.1
08318809	HD-26	ND	1	0.02	0.1
08318810	HD-23	ND	1	0.02	0.1
083188-MB	Method Blank	ND	1	0.02	0.1

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

Amjad
Laboratory Supervisor

Anahit Aivazyan
Principal Analyst

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 083188
Analyst: AN

Date Sampled: 11/19/08
Date Received: 11/19/08
Date Analyzed: 11/20/08
Sample Matrix: Water

BIOCHEMICAL OXYGEN DEMAND ANALYSIS
SM 5210 B

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
08318801	W-18	0.46	1	0.4	2
08318802	BYA-10	ND	1	0.4	2
08318803	W-16	0.42	1	0.4	2
08318804	BYA-7	ND	1	0.4	2
08318805	BYA-9	ND	1	0.4	2
08318806	W-2	ND	1	0.4	2
08318807	BYA-14	ND	1	0.4	2
08318808	BYA-H10	ND	1	0.4	2
08318809	HD-26	ND	1	0.4	2
08318810	HD-23	ND	1	0.4	2
083188-MB	Method Blank	ND	1	0.4	2

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJAC
Laboratory Supervisor

Analist Aivazyan
Principal Analyst

1536 Eastman Ave., Suite B, Ventura, CA 93003 • Website: capcoenv.com • Phone: (805)644-1095 • Fax: (805)644-9947

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 083188
Analyst: AN

Date Sampled: 11/19/08
Date Received: 11/19/08
Date Analyzed: 11/19/08
Sample Matrix: Water

SETTLABLE SOLIDS ANALYSIS
EPA METHOD 2540 F

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/L)	PQL (mg/L)
08318801	W-18	ND	1	0.02	0.1
08318802	BYA-10	ND	1	0.02	0.1
08318803	W-16	ND	1	0.02	0.1
08318804	BYA-7	ND	1	0.02	0.1
08318805	BYA-9	ND	1	0.02	0.1
08318806	W-2	ND	1	0.02	0.1
08318807	BYA-14	ND	1	0.02	0.1
08318808	BYA-H10	ND	1	0.02	0.1
08318809	HD-26	ND	1	0.02	0.1
08318810	HD-23	ND	1	0.02	0.1

PQL: Practical Quanitation Limit
MDL: Method Detection Limit
ND: Not Detected <0.1 ml/L

Amjad
Laboratory Supervisor

Analit Airazyan
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 083188
Analyst: AN/GM

Date Sampled: 11/19/08
Date Received: 11/19/08
Date Analyzed: 11/21/08
Sample Matrix: Water

TOTAL SUSPENDED SOLIDS ANALYSIS
SM 2540 D

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/L)	PQL (mg/L)
08318801	W-18	1.6	1	1	5
08318802	BYA-10	2.8	1	1	5
08318803	W-16	2.0	1	1	5
08318804	BYA-7	2.4	1	1	5
08318805	BYA-9	2.4	1	1	5
08318806	W-2	1.2	1	1	5
08318807	BYA-14	1.2	1	1	5
08318808	BYA-H10	1.2	1	1	5
08318809	HD-26	2.0	1	1	5
08318810	HD-23	2.0	1	1	5
083188-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJac
Laboratory Supervisor

Anahit Aivazyan
Principal Analyst

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Company: FUGRO WEST
Fax: (805) 6507010
Address: 4820 McGRATH ST.
VENTURA. CA. 93003
Phone: 805 6507000 Contact: ALEXIS S.

BILL TO:
Company: (same)
Address:
Phone: Contact:

P.O.#

PROJ. NO: 3399.006
PROJECT NAME: BIGROCK MESA NPDES WATER QUALITY TASK 32

SAMPLERS: (Signature) John Osten 11/19/08

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

083186

SAMPLE I.D. 11/19/08

MATRIX 12/29/08

ANALYSIS: BOD; pH, settleable solids; MBA, TSS, turbidity; Oil; Grease; Phenols; Acute Toxicity; Sulfide

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	BOD	pH, settleable solids	MBA, TSS, turbidity	Oil; Grease	Phenols	Acute Toxicity	Sulfide	REMARKS TEMP. °C
1	11-19	945A		✓	W-18 88-01	85% ✓	o			2/2	P/A	✓	✓	✓	✓	✓	✓	✓	23.1
2		1040			BYA-10 88-02	100% ✓						✓	✓	✓	✓	✓	✓	✓	21.9
3		1105			W-16 88-03	90% ✓	X					✓	✓	✓	✓	✓	✓	✓	21.2
4		1130			BYA-7 88-04	100% ✓						✓	✓	✓	✓	✓	✓	✓	21.4
5		1150A			BYA-9 88-05	75% ✓	o					✓	✓	✓	✓	✓	✓	✓	22.6
6		1225			W-2 88-06	85% ✓	o					✓	✓	✓	✓	✓	✓	✓	21.1
7		1250P			BYA-14 88-07	95% ✓						✓	✓	✓	✓	✓	✓	✓	23.0
8		105P			BYA-H10 88-08	100% ✓						✓	✓	✓	✓	✓	✓	✓	21.8
9		125Pm			HD-26 88-09	95% ✓						✓	✓	✓	✓	✓	✓	✓	21.9
10		140Pm			HD-23 88-10	96% ✓						✓	✓	✓	✓	✓	✓	✓	21.7

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
John Osten	11/19/08 2:10pm	[signature]			
	11-19-08 3:10pm	UHWE/hl 1530			

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	X
72 Hr.		Other	

WHITE COPY ______ CANARY COPY ______ PINK COPY ______

CAPCO
Analytical Services, Inc

Prepared For: Fugro West, Inc. 4820 McGrath Street, Suite #100 Ventura, CA 93003-7778	January 2, 2009

ATTENTION: Alexis Spencer

Laboratory No: 083455 Date Received: 17-DEC-08 Project: Big Rock Mesa NPDES Water Quality Project No: 3399.006.032	Sampled By: Client ID: See Below

RESULTS

On December 17, 2008, ten (10) samples were received for analysis by Capco Analytical Services, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of 5 pages excluding the cover letter and the Chain of Custody.

SAMPLE DESCRIPTION	CAS LAB NUMBER
W-18	08345501
BYA-10	08345502
W-16	08345503
BYA-9	08345504
BYA-7	08345505
BYA-14	08345506
W-2	08345507
BYA-H10	08345508
HD-26	08345509
HD-23	08345510

Hernandez for

Alin E. Repede, MS
Director - Analytical Operations

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 083455
Analyst: AJ

Date Sampled: 12/17/08
Date Received: 12/17/08
Date Analyzed: 12/17/08
Sample Matrix: Water

TURBIDITY ANALYSIS
EPA Method 180.1

CAS Lab #	Sample ID	RESULTS (NTU)	Dilution Factor	PQL (NTU)
08345501	W-18	7.9	1	0.1
08345502	BYA-10	1.4	1	0.1
08345503	W-16	0.81	1	0.1
08345504	BYA-9	1.1	1	0.1
08345505	BYA-7	21	1	0.1
08345506	BYA-14	4.5	1	0.1
08345507	W-2	2.4	1	0.1
08345508	BYA-H10	0.82	1	0.1
08345509	HD-26	0.65	1	0.1
08345510	HD-23	0.71	1	0.1

PQL: Practical Quantitation Limit

AMJay
Principal Analyst

CAPCO Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 083455
Analyst: AJ

Date Sampled: 12/17/08
Date Received: 12/17/08
Date Analyzed: 12/22/08
Sample Matrix: Water

TOTAL SUSPENDED SOLIDS ANALYSIS
SM 2540 D

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/L)	PQL (mg/L)
08345501	W-18	4.0	1	1	5
08345502	BYA-10	ND	1	1	5
08345503	W-16	ND	1	1	5
08345504	BYA-9	ND	1	1	5
08345505	BYA-7	2.0	1	1	5
08345506	BYA-14	6.0	1	1	5
08345507	W-2	ND	1	1	5
08345508	BYA-H10	2.0	1	1	5
08345509	HD-26	ND	1	1	5
08345510	HD-23	ND	1	1	5
083455-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AmJay

Principal Analyst

Client: Fugro West, Inc.
CAS LAB NO: 083455
Analyst: AN

Date Sampled: 12/17/08
Date Received: 12/17/08
Date Analyzed: 12/23/08
Sample Matrix: Water

BIOCHEMICAL OXYGEN DEMAND ANALYSIS
SM 5210 B

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
08345501	W-18	ND	1	0.4	2
08345502	BYA-10	ND	1	0.4	2
08345503	W-16	ND	1	0.4	2
08345504	BYA-9	ND	1	0.4	2
08345505	BYA-7	ND	1	0.4	2
08345506	BYA-14	ND	1	0.4	2
08345507	W-2	ND	1	0.4	2
08345508	BYA-H10	ND	1	0.4	2
08345509	HD-26	ND	1	0.4	2
08345510	HD-23	2.7	1	0.4	2
083455-MB	Method Blank	ND	1	0.4	2

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AMJay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 083455
Analyst: AN

Date Sampled: 12/17/08
Date Received: 12/17/08
Date Analyzed: 12/19/08
Sample Matrix: Water

SETTLEABLE SOLIDS ANALYSIS
SM 2540 F

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	PQL (mg/L)
08345501	W-18	BQL	1	0.1
08345502	BYA-10	BQL	1	0.1
08345503	W-16	BQL	1	0.1
08345504	BYA-9	BQL	1	0.1
08345505	BYA-7	BQL	1	0.1
08345506	BYA-14	BQL	1	0.1
08345507	W-2	BQL	1	0.1
08345508	BYA-H10	BQL	1	0.1
08345509	HD-26	BQL	1	0.1
08345510	HD-23	BQL	1	0.1

PQL: Practical Quantitation Limit
BQL: Below Practical Quantitation Limit

AM Jay
Principal Analyst

CAPCO
Analytical Services, Inc

Client: Fugro West, Inc.
CAS LAB NO: 083455
Analyst: GM

Date Sampled: 12/17/08
Date Received: 12/17/08
Date Analyzed: 12/18/08
Sample Matrix: Water

OIL & GREASE ANALYSIS
EPA Method 1664

CAS Lab #	Sample ID	RESULTS (mg/L)	Dilution Factor	MDL (mg/l)	PQL (mg/L)
08345501	W-18	ND	1	1	5
08345502	BYA-10	ND	1	1	5
08345503	W-16	ND	1	1	5
08345504	BYA-9	ND	1	1	5
08345505	BYA-7	ND	1	1	5
08345506	BYA-14	ND	1	1	5
08345507	W-2	ND	1	1	5
08345508	BYA-H10	ND	1	1	5
08345509	HD-26	ND	1	1	5
08345510	HD-23	ND	1	1	5
083455-MB	Method Blank	ND	1	1	5

MDL: Method Detection Limit
PQL: Practical Quantitation Limit
ND: Not Detected

AmJay
Principal Analyst

CAPCO ANALYTICAL SERVICES
1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Fax (805) 650-7010
Company FUGRO WEST
Address 4820 MCGRATH ST.
VENTURA, CA. 93003
Phone 805 650-7000 Contact ALEXIS

BILL TO:
Company SAME
Address
Phone Contact

P.O.# 3399.006.032

PROJ. NO 3399.006.032
PROJECT NAME BIG ROCK MESA NPDES WATER QUALITY
SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS: Oil & Grease | Turbidity, TSS | Settl. solids, BOD

REMARKS

083455

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	Oil & Grease	Turbidity, TSS	Settl. solids, BOD
1	12-17	1015		✓	W-18	✓				2		\	\	\
2	↓	1045		↓	BYA-10	↓				2		\	\	\
3	↓	1105		↓	W-16	↓				2		\	\	\
4	↓	1115		↓	BYA-9	↓				2		\	\	\
5	↓	1140		↓	BYA-7	↓				2		\	\	\
6	↓	1155		↓	BYA-14	↓				2		\	\	\
7	↓	1215		↓	W-2	↓				2		\	\	\
8	↓	1240		↓	BYA-H10	↓				2		\	\	\
9	↓	1255		↓	HD-26	↓				2		\	\	\
10	↓	105		↓	HD-23	↓				2		\	\	\

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
John Oster	12/17/08 1400	[signature]			
[signature]	12/17/08 16:40	Rosa Hernandez 4:00 PM 12/17/08			

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	X
72 Hr.		Other	

WHITE COPY ______ CANARY COPY ______ PINK COPY ______

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

November 26, 2008

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	083188-06
DATE RECEIVED:	19 Nov - 08
ABC LAB. NO.:	CAP1108.282

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	85 % Survival in 100% Sample
TU(a) =	0.69

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108282	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-06				

Conc-%	1	2	3	4
N Control	0.9000	1.0000	0.8000	1.0000
100	1.0000	0.7000		

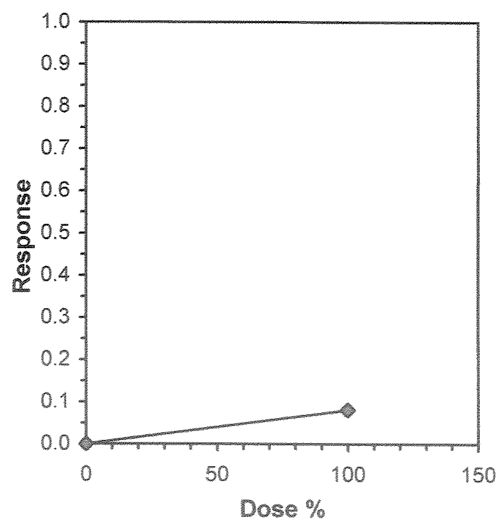
			Transform: Arcsin Square Root						1-Tailed		Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	0.9250	1.0000	1.2951	1.1071	1.4120	11.347	4				0.9250	1.0000
100	0.8500	0.9189	1.2016	0.9912	1.4120	24.767	2	0.551	2.132	0.3615	0.8500	0.9189

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.89497		0.713		-0.1973	-2.1219
F-Test indicates equal variances (p = 0.27)	4.10099		55.5519			
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates no significant differences	0.27986	0.30227	0.01165	0.03834	0.61082	1, 4
Treatments vs N Control						

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05*	61.667			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

* indicates IC estimate less than the lowest concentration

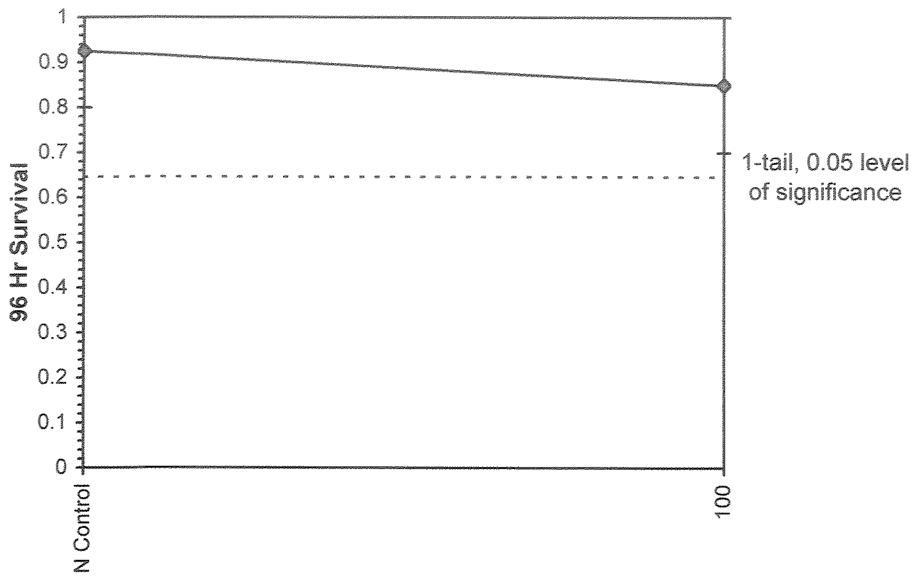


 ToxCalc v5.0.23 Reviewed by: [signature]

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108282	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-06				

Dose-Response Plot



ToxCalc v5.0.23

Reviewed by: ________

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108282	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-06				

		Auxiliary Data Summary					
Conc-%	**Parameter**	**Mean**	**Min**	**Max**	**SD**	**CV%**	**N**
N Control	Temp C	24.13	24.00	24.40	0.23	1.99	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.87	7.80	7.90	0.06	3.05	3
100		7.23	6.90	7.90	0.58	10.50	3
N Control	DO mg/L	7.27	6.50	7.70	0.67	11.23	3
100		6.50	4.90	7.50	1.40	18.20	3
N Control	Hardness mg/L	86.00	80.00	89.00	5.20	2.65	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	347.33	328.00	358.00	16.77	1.18	3
100		2296.00	2138.00	2375.00	136.83	0.51	3

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

November 26, 2008

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	083188-07
DATE RECEIVED:	19 Nov - 08
ABC LAB. NO.:	CAP1108.283

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	95 % Survival in 100% Sample
TU(a) =	0.41

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108283	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-07				

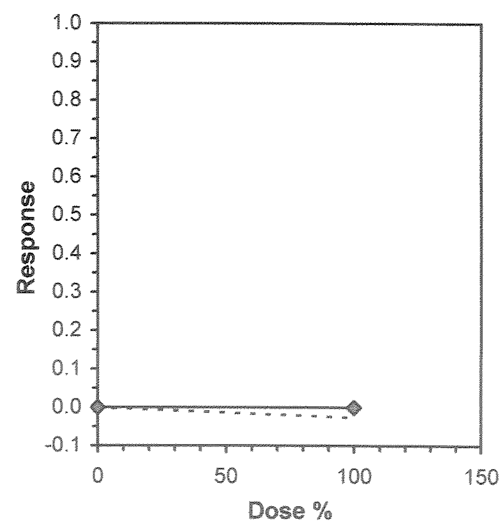
Conc-%	1	2	3	4
N Control	0.9000	1.0000	0.8000	1.0000
100	0.9000	1.0000		

			Transform: Arcsin Square Root						1-Tailed		Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	0.9250	1.0000	1.2951	1.1071	1.4120	11.347	4				0.9375	1.0000
100	0.9500	1.0270	1.3305	1.2490	1.4120	8.661	2	-0.293	2.132	0.2579	0.9375	1.0000

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.88537		0.713		-0.5432	-1.329
F-Test indicates equal variances (p = 1.00)	1.62618		21614.1			
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates no significant differences	0.18464	0.19942	0.00168	0.01952	0.78394	1, 4
Treatments vs N Control						

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

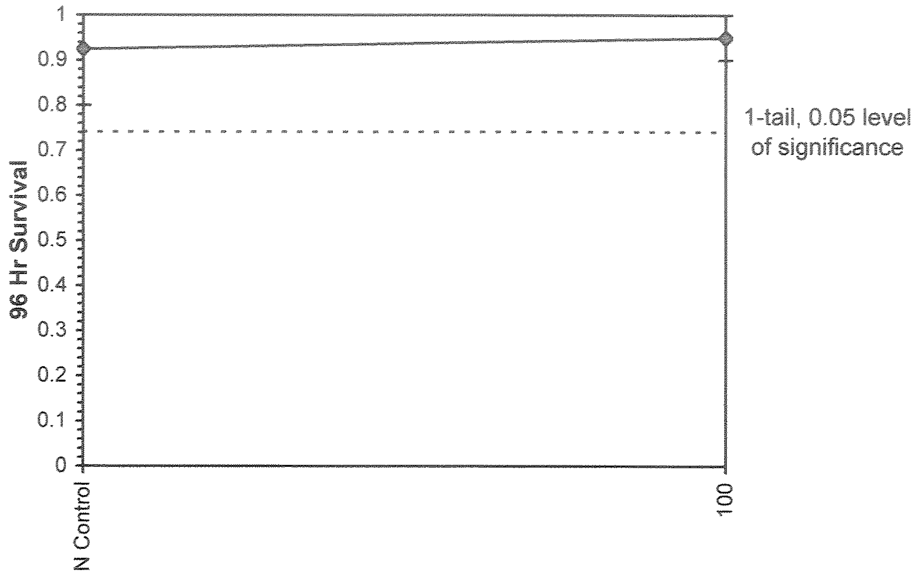


 ToxCalc v5.0.23 Reviewed by: ____

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108283	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-07				

Dose-Response Plot



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108283	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-07				

		Auxiliary Data Summary					
Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.13	24.00	24.40	0.23	1.99	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.87	7.80	7.90	0.06	3.05	3
100		7.73	7.20	8.00	0.46	8.79	3
N Control	DO mg/L	7.27	6.50	7.70	0.67	11.23	3
100		6.57	6.30	6.90	0.31	8.42	3
N Control	Hardness mg/L	86.00	80.00	89.00	5.20	2.65	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	347.33	328.00	358.00	16.77	1.18	3
100		3135.67	2975.00	3258.00	145.34	0.38	3

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

November 26, 2008

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

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We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	083188-08
DATE RECEIVED:	19 Nov - 08
ABC LAB. NO.:	CAP1108.284

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	100 % Survival in 100% Sample
TU(a) =	0.00

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

29 NORTH OLIVE STREET, VENTURA, CA 93001 • (805) 643-5621

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108284	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-08				

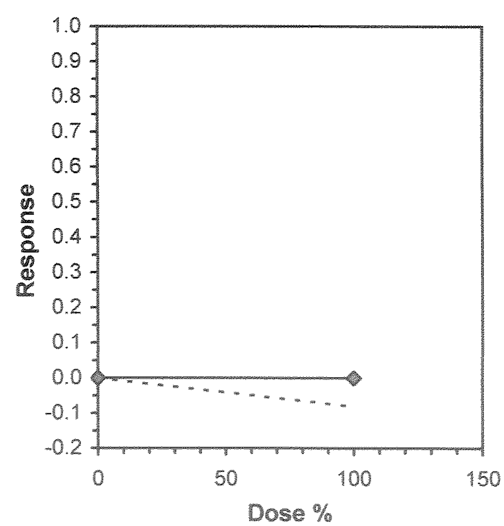
Conc-%	1	2	3	4
N Control	0.9000	1.0000	0.8000	1.0000
100	1.0000	1.0000		

			Transform: Arcsin Square Root						1-Tailed		Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	0.9250	1.0000	1.2951	1.1071	1.4120	11.347	4				0.9625	1.0000
100	1.0000	1.0811	1.4120	1.4120	1.4120	0.000	2	-1.061	2.132	0.2350	0.9625	1.0000

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.9024		0.713		-0.7185	0.52749
Equality of variance cannot be confirmed						
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates no significant differences	0.16479	0.17798	0.01824	0.0162	0.34842	1, 4
Treatments vs N Control						

Linear Interpolation (200 Resamples)

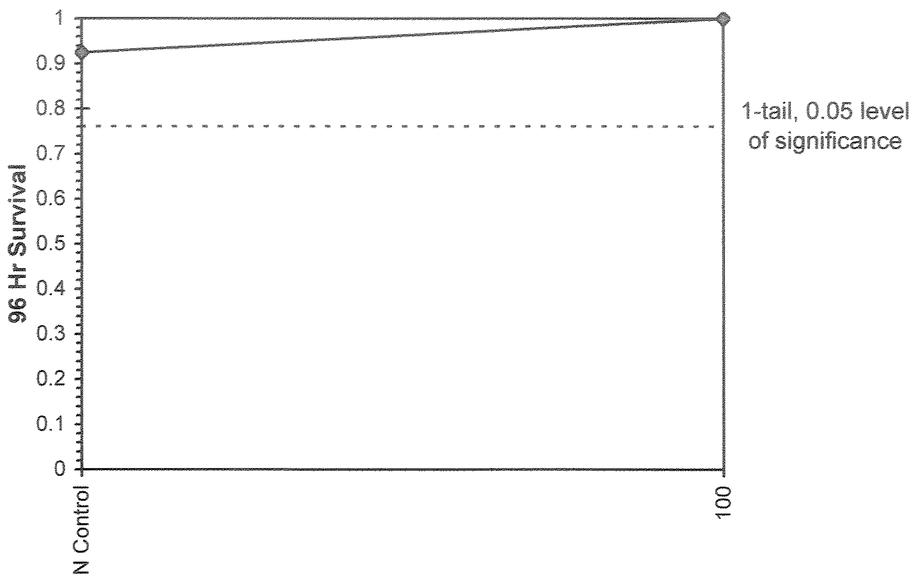
Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108284	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-08				

Dose-Response Plot



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108284	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-08				

		Auxiliary Data Summary					
Conc-%	**Parameter**	**Mean**	**Min**	**Max**	**SD**	**CV%**	**N**
N Control	Temp C	24.13	24.00	24.40	0.23	1.99	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.87	7.80	7.90	0.06	3.05	3
100		7.63	7.30	8.10	0.42	8.45	3
N Control	DO mg/L	7.27	6.50	7.70	0.67	11.23	3
100		7.23	6.90	7.50	0.31	7.64	3
N Control	Hardness mg/L	86.00	80.00	89.00	5.20	2.65	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	347.33	328.00	358.00	16.77	1.18	3
100		2158.00	2065.00	2258.00	96.69	0.46	3

ToxCalc v5.0.23

Reviewed by: ____

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

November 26, 2008

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	083188-09
DATE RECEIVED:	19 Nov - 08
ABC LAB. NO.:	CAP1108.285

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	95 % Survival in 100% Sample
TU(a) =	0.41

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

29 NORTH OLIVE STREET, VENTURA, CA 93001 • (805) 643-5621

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108285	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-09				

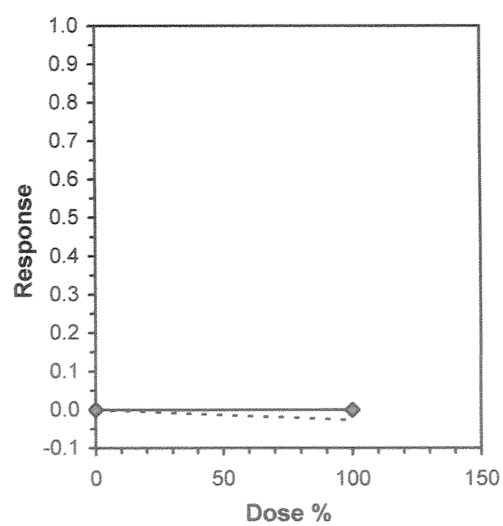
Conc-%	1	2	3	4
N Control	0.9000	1.0000	0.8000	1.0000
100	1.0000	0.9000		

			Transform: Arcsin Square Root					1-Tailed			Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	0.9250	1.0000	1.2951	1.1071	1.4120	11.347	4				0.9375	1.0000
100	0.9500	1.0270	1.3305	1.2490	1.4120	8.661	2	-0.293	2.132	0.2579	0.9375	1.0000

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.88537		0.713		-0.5432	-1.329
F-Test indicates equal variances (p = 1.00)	1.62618		21614.1			
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates no significant differences	0.18464	0.19942	0.00168	0.01952	0.78394	1, 4
Treatments vs N Control						

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

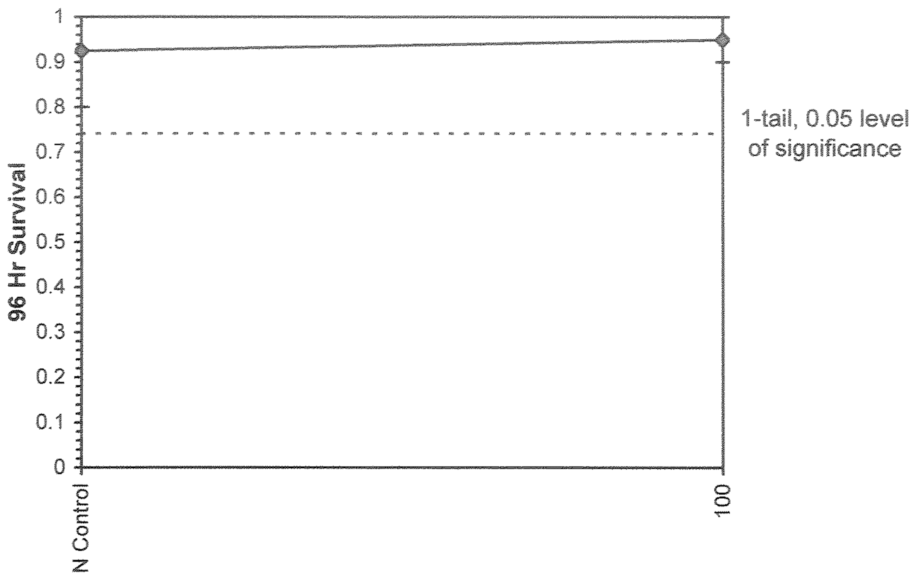


 ToxCalc v5.0.23 Reviewed by: [signature]

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108285	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-09				

Dose-Response Plot



Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108285	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-09				

		Auxiliary Data Summary					
Conc-%	**Parameter**	**Mean**	**Min**	**Max**	**SD**	**CV%**	**N**
N Control	Temp C	24.13	24.00	24.40	0.23	1.99	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.87	7.80	7.90	0.06	3.05	3
100		7.70	7.20	8.00	0.44	8.57	3
N Control	DO mg/L	7.27	6.50	7.70	0.67	11.23	3
100		7.07	6.50	7.50	0.51	10.14	3
N Control	Hardness mg/L	86.00	80.00	89.00	5.20	2.65	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	347.33	328.00	358.00	16.77	1.18	3
100		2658.67	2517.00	2758.00	125.95	0.42	3

 Reviewed by: ____

AQUATIC
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TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

November 26, 2008

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
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Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	083188-10
DATE RECEIVED:	19 Nov - 08
ABC LAB. NO.:	CAP1108.286

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	90 % Survival in 100% Sample
TU(a) =	0.59

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108286	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-10				

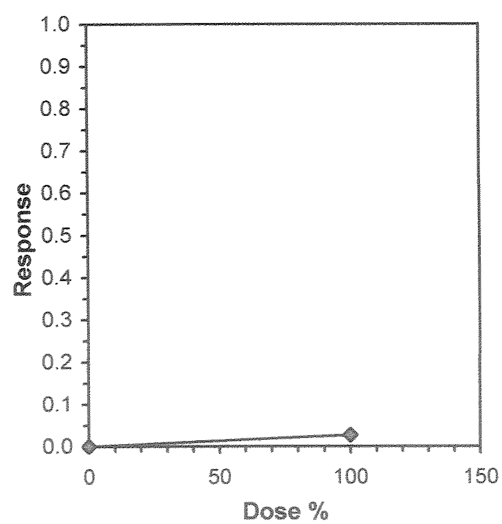
Conc-%	1	2	3	4
N Control	0.9000	1.0000	0.8000	1.0000
100	1.0000	0.8000		

			Transform: Arcsin Square Root						1-Tailed		Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	0.9250	1.0000	1.2951	1.1071	1.4120	11.347	4				0.9250	1.0000
100	0.9000	0.9730	1.2596	1.1071	1.4120	17.115	2	0.246	2.132	0.3079	0.9000	0.9730

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.85667		0.713		-0.3193	-2.4253
F-Test indicates equal variances (p = 0.48)	2.15197		55.5519			
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates no significant differences	0.22956	0.24793	0.00168	0.02781	0.81807	1, 4
Treatments vs N Control						

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



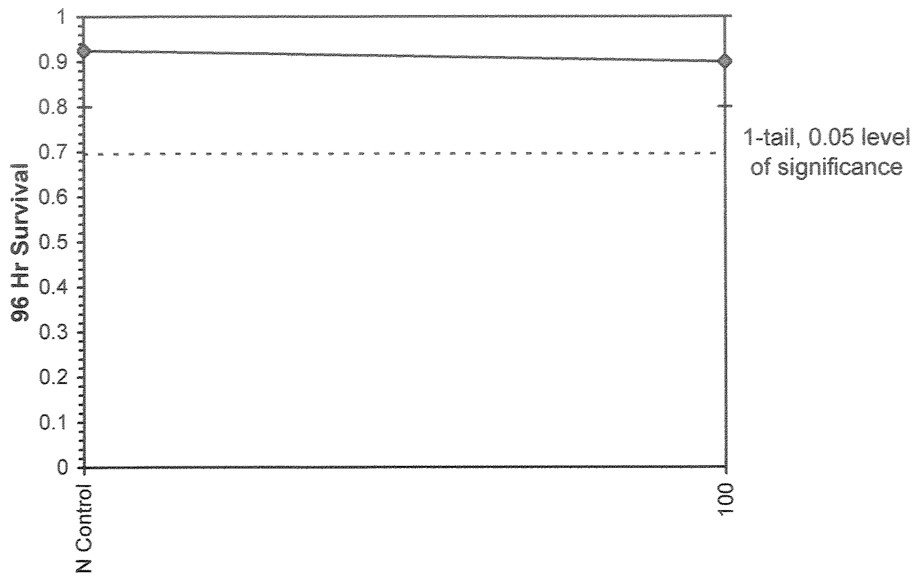
ToxCalc v5.0.23

Reviewed by:

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108286	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-10				

Dose-Response Plot



 ToxCalc v5.0.23 Reviewed by: [signature]

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	11/20/2008	Test ID:	CAP1108286	Sample ID:	CA000000
End Date:	11/24/2008	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	11/19/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083188-10				

Conc-%	Parameter	Auxiliary Data Summary					
		Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.13	24.00	24.40	0.23	1.99	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	7.87	7.80	7.90	0.06	3.05	3
100		7.70	7.30	8.10	0.40	8.21	3
N Control	DO mg/L	7.27	6.50	7.70	0.67	11.23	3
100		6.70	6.60	6.90	0.17	6.21	3
N Control	Hardness mg/L	86.00	80.00	89.00	5.20	2.65	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	60.00	60.00	60.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	347.33	328.00	358.00	16.77	1.18	3
100		3255.33	3193.00	3287.00	53.98	0.23	3

ToxCalc v5.0.23

Reviewed by: ____

CAPCO ANALYTICAL SERVICES
1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Company CAPCO ANALYTICAL SERVICES
Fax
Address
Phone Contact

BILL TO:
Company SAME
Address
Phone Contact

P.O.#

PROJ. NO
PROJECT NAME ABC LABORATORIES
SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS: ACUTE TOXICITY

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	SOE.	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	ACUTE TOXICITY								REMARKS
1	11/19	945		X	083188 -01	X				1	P	X								
2		1040		X	083188 - 02					1	P									
3		1105		X	083188 - 03					1	P									
4		1130		X	083188 - 04					1	P									
5		1150		X	083188 - 05					1	P									
6		1225		X	083188 - 06					1	P									
7		1250		X	083188 - 07					1	P									
8		1305		X	083188 - 08					1	P									
9		1325		X	083188 - 09					1	P									
10		1340		X	083188 - 10					1	P									

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	11/18 1558	[signature] 11/19 1630			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	
72 Hr.		Other	

WHITE COPY CANARY COPY PINK COPY

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Company: FUGRO WEST
Fax: (805) 6507010
Address: 4820 McGRATH ST.
VENTURA. CA. 93003
Phone: 805 6507000 Contact: ALEXIS S.

BILL TO:
Company: (same)
Address:
Phone: Contact:

P.O.#

PROJ. NO: 3399.006
PROJECT NAME: BIGROCK MESA NPDES WATER QUALITY TASK 32
SAMPLERS: (Signature) John Osten 11/19/08

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

083186

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	TYPE	ANALYSIS: BOD	pH Settleable solids	MBA TSS; turbidity	Oil; Grease	Phenols	Acute Toxicity	Sulfide		REMARKS: TEMP. °C
1	11-19	945A		✓	W-18	✓				3/2	P/A	✓	✓	✓	✓	✓	✓	✓		23.1
2		1040			BYA-10															21.9
3		1105			W-16															21.2
4		1130			BYA-7															21.4
5		1150A			BYA-9															22.6
6		1225			W-2															21.1
7		1250P			BYA-14															23.0
8		105P			BYA-H10															21.8
9		125Pm			HD-26															21.9
10		140Pm			HD-23															21.7

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
John Osten	11/19/08 2:10pm	[signature]			

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	11-19-08 3:10pm	UBWE / [signature] 1530	

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	X
72 Hr.		Other	

WHITE COPY ______ CANARY COPY ______ PINK COPY ______

CAPCO
Analytical Services, Inc

Prepared For:	Fugro West, Inc. 4820 McGrath St., Suite 100 Ventura, CA 93003	January 15, 2009

ATTENTION: Alexis Spencer

Laboratory No: 083523 — Sampled By: Client
Date Received: 29-DEC-08 — ID: See Below
Project: Big Rock Mesa NPDES Water Testing
Project No: 3399.006.034

RESULTS

On December 29, 2008, three (3) samples were received for analysis by Capco Analytical Services, Inc. The samples were identified and assigned the lab numbers listed below. This report consists of the cover letter, Chain of Custody and the Sub-Contractor's Report.

SAMPLE DESCRIPTION	CAS LAB NUMBER
W-2	08352301
W-16	08352302
W-18	08352303

Alin E. Repede, MS
Director - Analytical Operations

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

January 13, 2009

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	083523-01
DATE RECEIVED:	29 Dec - 08
ABC LAB. NO.:	CAP1208.456

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	95 % Survival in 100% Sample
TU(a) =	0.41

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	12/30/2008	Test ID:	CAP1208456	Sample ID:	CA000000
End Date:	1/3/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	12/29/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083523-01				

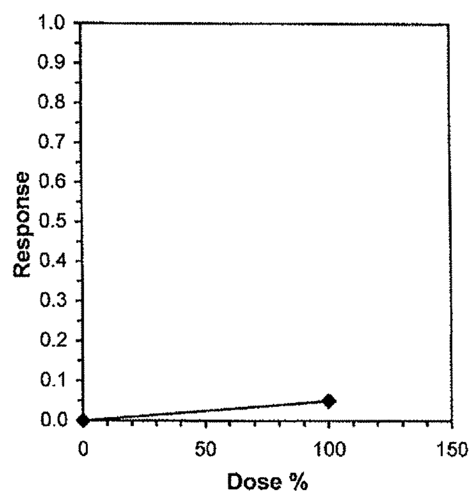
Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
100	0.9000	1.0000		

			Transform: Arcsin Square Root						1-Tailed		Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	t-Stat	Critical	MSD	Mean	N-Mean
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4				1.0000	1.0000
100	0.9500	0.9500	1.3305	1.2490	1.4120	8.661	2	1.633	2.132	0.1064	0.9500	0.9500

Auxiliary Tests	Statistic		Critical		Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.82716		0.713		0	2.5
Equality of variance cannot be confirmed						
Hypothesis Test (1-tail, 0.05)	**MSDu**	**MSDp**	**MSB**	**MSE**	**F-Prob**	**df**
Homoscedastic t Test indicates no significant differences	0.04368	0.0448	0.00885	0.00332	0.17781	1, 4
Treatments vs N Control						

Linear Interpolation (200 Resamples)

Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

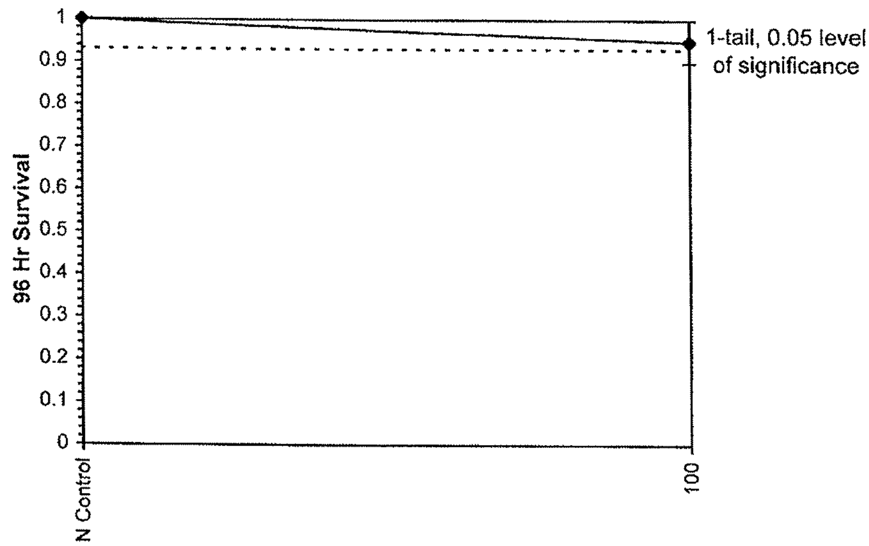


 ToxCalc v5.0.23 Reviewed by: [signature]

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	12/30/2008	Test ID:	CAP1208456	Sample ID:	CA000000
End Date:	1/3/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	12/29/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083523-01				

Dose-Response Plot



ToxCalc v5.0.23

Reviewed by:

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	12/30/2008	Test ID:	CAP1208456	Sample ID:	CA000000
End Date:	1/3/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	12/29/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083523-01				

		Auxiliary Data Summary					
Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.30	24.00	24.90	0.52	2.97	3
100		24.17	24.00	24.50	0.29	2.22	3
N Control	pH	7.87	7.80	7.90	0.06	3.05	3
100		7.27	7.00	7.70	0.38	8.47	3
N Control	DO mg/L	7.03	6.20	7.50	0.72	12.09	3
100		7.07	6.00	7.70	0.93	13.64	3
N Control	Hardness mg/L	95.00	95.00	95.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	65.00	65.00	65.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	386.67	370.00	395.00	14.43	0.98	3
100		2469.67	2449.00	2485.00	18.58	0.17	3

 Reviewed by: [illegible]

AQUATIC
BIOASSAY &
CONSULTING
LABORATORIES, INC.

TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

January 13, 2009

Ms. Michele Robertson
CAPCO Analytical
1536 Eastman Ave., Suite B
Ventura, CA 93003

Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	083523-02
DATE RECEIVED:	29 Dec - 08
ABC LAB. NO.:	CAP1208.457

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	100 % Survival in 100% Sample
TU(a) =	0.00

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	12/30/2008	Test ID:	CAP1208457	Sample ID:	CA000000
End Date:	1/3/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	12/29/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083523-02				

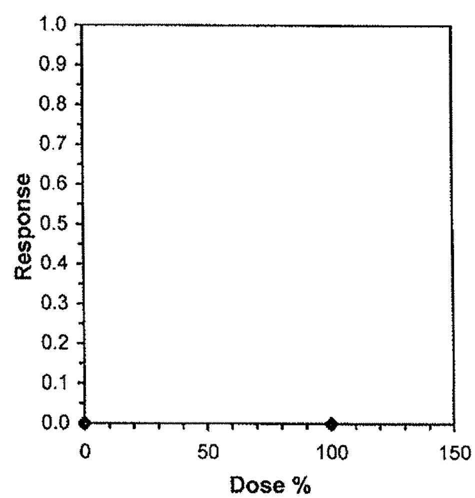
Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000		

			Transform: Arcsin Square Root					Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Mean	N-Mean
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4	1.0000	1.0000
100	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	1.0000	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ($p > 0.01$)	1	0.713		
Equality of variance cannot be confirmed				

Linear Interpolation (200 Resamples)

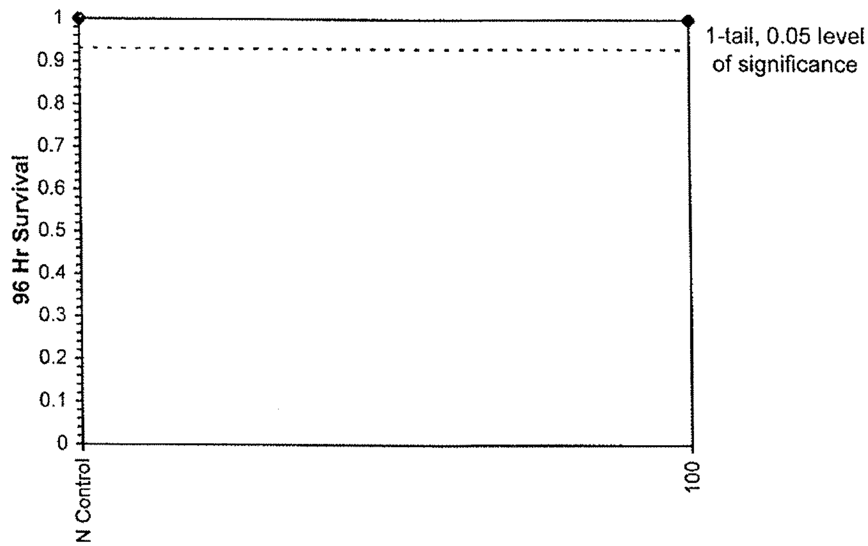
Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



 ToxCalc v5.0.23 Reviewed by:

Larval Fish Growth and Survival Test-96 Hr Survival					
Start Date:	12/30/2008	Test ID:	CAP1208457	Sample ID:	CA000000
End Date:	1/3/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	12/29/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083523-02				

Dose-Response Plot



 ToxCalc v5.0.23 Reviewed by: [signature]

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	12/30/2008	Test ID:	CAP1208457	Sample ID:	CA000000
End Date:	1/3/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	12/29/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083523-02				

		Auxiliary Data Summary					
Conc-%	**Parameter**	**Mean**	**Min**	**Max**	**SD**	**CV%**	**N**
N Control	Temp C	24.30	24.00	24.90	0.52	2.97	3
100		24.17	24.00	24.50	0.29	2.22	3
N Control	pH	7.87	7.80	7.90	0.06	3.05	3
100		7.33	7.00	7.80	0.42	8.80	3
N Control	DO mg/L	7.03	6.20	7.50	0.72	12.09	3
100		6.40	6.10	6.90	0.44	10.32	3
N Control	Hardness mg/L	95.00	95.00	95.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	65.00	65.00	65.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	386.67	370.00	395.00	14.43	0.98	3
100		2473.00	2467.00	2477.00	5.29	0.09	3

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January 13, 2009

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1536 Eastman Ave., Suite B
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Dear Ms. Robertson:

We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms EPA-821-R-02-012.* Results were as follows:

CLIENT:	CAPCO Analytical
SAMPLE I.D.:	083523-03
DATE RECEIVED:	29 Dec - 08
ABC LAB. NO.:	CAP1208.458

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 =	100 % Survival in 100% Sample
TU(a) =	0.00

Yours very truly,

Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival					
Start Date:	12/30/2008	Test ID:	CAP1208458	Sample ID:	CA000000
End Date:	1/3/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	12/29/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083523-03				

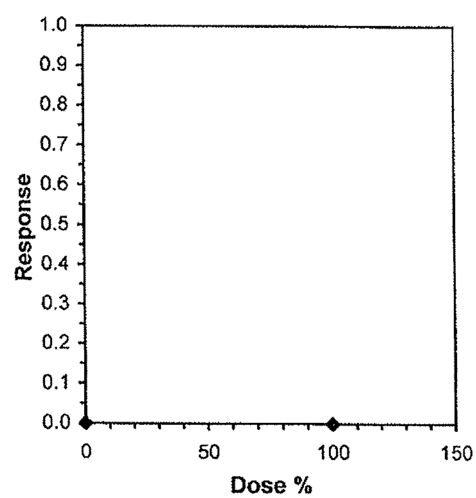
Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000		

			Transform: Arcsin Square Root					Isotonic	
Conc-%	Mean	N-Mean	Mean	Min	Max	CV%	N	Mean	N-Mean
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4	1.0000	1.0000
100	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	1.0000	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ($p > 0.01$)	1	0.713		
Equality of variance cannot be confirmed				

Linear Interpolation (200 Resamples)

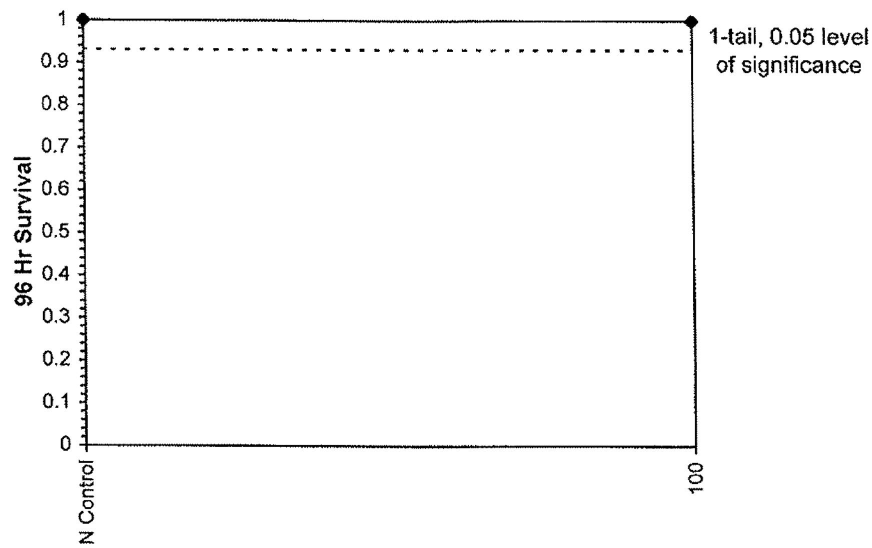
Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



 ToxCalc v5.0.23 Reviewed by:

Larval Fish Growth and Survival Test-96 Hr Survival					
Start Date:	12/30/2008	Test ID:	CAP1208458	Sample ID:	CA000000
End Date:	1/3/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	12/29/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083523-03				

Dose-Response Plot



 ToxCalc v5.0.23 Reviewed by: [signature]

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date:	12/30/2008	Test ID:	CAP1208458	Sample ID:	CA000000
End Date:	1/3/2009	Lab ID:	CAABC	Sample Type:	EFF1-POTW
Sample Date:	12/29/2008	Protocol:	EPA-821-R-02-012	Test Species:	PP-Pimephales promelas
Comments:	#083523-03				

		Auxiliary Data Summary					
Conc-%	**Parameter**	**Mean**	**Min**	**Max**	**SD**	**CV%**	**N**
N Control	Temp C	24.30	24.00	24.90	0.52	2.97	3
100		24.17	24.00	24.50	0.29	2.22	3
N Control	pH	7.87	7.80	7.90	0.06	3.05	3
100		7.43	7.10	7.80	0.35	7.97	3
N Control	DO mg/L	7.03	6.20	7.50	0.72	12.09	3
100		7.50	7.20	7.80	0.30	7.30	3
N Control	Hardness mg/L	95.00	95.00	95.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Alkalinitymg/L	65.00	65.00	65.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Conductivity	386.67	370.00	395.00	14.43	0.98	3
100		2769.00	2735.00	2787.00	29.46	0.20	3

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT
Company CAPCO ANALYTICAL Fax (805) 644-9947
Address 1536 EASTMAN AVE. "B"
VENTURA, CA. 93003
Phone (805) 644-1095 Contact MICHELLE

BILL TO: P.O.#
Company (SAME)
Address
Phone Contact

P.O. # 632798

PROJECT NAME ABC LABORATORIES

SAMPLERS: (Signature)

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I. D.	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	ANALYSIS: Acute Toxicity								REMARKS
01	12/29/08	9:30AM			083523-01	✓				3	P	↓								
02	↓	9:45AM			083523-02	✓				3	P	↓								
03	↓	10AM			083523-03	✓				3	P	↓								

CHECK ONE BOX:
DISPOSE SAMPLES
RETURN SAMPLES

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
C Reyes	12/29/08	[signature] 12/29/08 1450	Temp 5.8°C CHL		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	X
72 Hr.		Other	

WHITE COPY ___ CANARY COPY ___ PINK COPY ___

CAPCO ANALYTICAL SERVICES

1536 Eastman Avenue
Ventura, CA 93003
(805) 644-1095 Fax 644-9947

CHAIN OF CUSTODY RECORD

REPORT

Company FUGRO WEST
Fax (805) 6507010
Address 4820 McGRATH ST
VENTURA. CA. 93003
Phone (805) 6507000 Contact ALEXIS

BILL TO:

Company SAME
Address
Phone Contact

P.O.# 3399.006 .034

PROJ. NO 3399.006. 034

PROJECT NAME BIG ROCK MESA NPDES WATER TESTING

SAMPLERS: (Signature) [signature] 12/29/08

CONTAINER TYPES
A = AMBER B = BRASS G = GLASS
P = PLASTIC V = VOA VIAL O = OTHER

ANALYSIS: ACUTE TOXICITY

REMARKS

083523

SAMPLE NO.	DATE SAMPLED	TIME SAMPLED	COMP	GRAB	SAMPLE I.D.	MATRIX: WATER	SOIL	SLUDGE	OTHER	CONTAINER #	CONTAINER TYPE	ACUTE TOXICITY								REMARKS
1	12/29	930A			W-2	✓				3		X								
2	"	945A			W-16	✓				3		X								
3	"	1000A			W-19	✓				3		X								

CHECK ONE BOX:
DISPOSE SAMPLES ☐
RETURN SAMPLES ☐

The undersigned hereby acknowledges having received a copy of the Fee Schedule/General Information and Conditions, the provisions of which are a part of this agreement.

[illegible]hed by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	12/29/08 10A0A	[signature]			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
[signature]	12/29/08 11:30	[signature]			

TURN AROUND TIME

24 Hr.		5 Day	
48 Hr.		Standard	
72 Hr.		Other	

WHITE COPY ______ CANARY COPY ______ PINK COPY ______