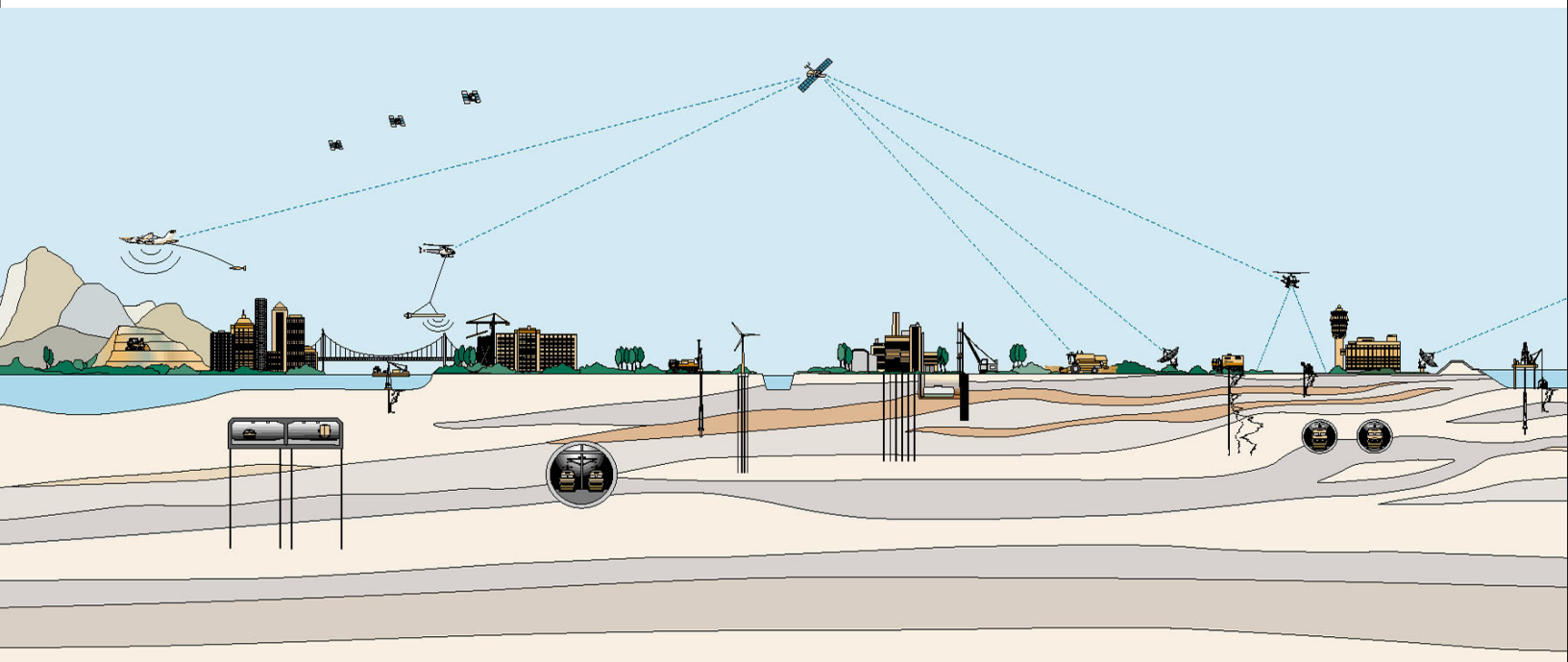
FUGRO CONSULTANTS, INC.

ANNUAL REPORT
JULY 2014 THROUGH JUNE 2015
BIG ROCK MESA LANDSLIDE
ASSESSMENT DISTRICT
MALIBU, CALIFORNIA

Prepared for:
City of Malibu

November 2015
Fugro Job No. 04.62140606



FUGRO CONSULTANTS, INC.

4820 McGrath Street, Suite 100
Ventura, California 93003-7778
Tel: (805) 650-7000
Fax: (805) 650-7010

November 6, 2015
Project No. 04.62140606

City of Malibu
23825 Stuart Ranch Road
Malibu, California 90265

Attention: Mr. Rob Duboux

Subject: Annual Report, July 2014 through June 2015, Big Rock Mesa Landslide Assessment District, Malibu, California

Dear Mr. Duboux:

Fugro is pleased to present the annual report for the Big Rock Mesa Landslide Assessment District. This report summarizes the monitoring and maintenance activities completed during the period of July 2014 through June 2015.

Fugro appreciates this opportunity to serve the City of Malibu and the District homeowners. Please contact Christopher Dean at (310) 456-2489, x306 or Loree Berry at (8050) 289-3830 if you have any questions regarding this report.

Sincerely,
FUGRO CONSULTANTS, INC.

REGISTERED GEOLOGIST
CHRISTOPHER W. DEAN
No. EG 1751
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
LOREE A. BERRY
No. 73221
Exp. 12-31-16
CIVIL
STATE OF CALIFORNIA

Christopher Dean, C.E.G.
Associate Engineering Geologist
Program Manager

Loree A. Berry, P.E.
Senior Engineer/Project Manager

Nicholas Simon
Staff Geologist/Lead Project Technician

Copies Submitted: (1) Addressee and Pdf
(2) City of Malibu Geotechnical Staff and Pdf

CONTENTS

Page

1.0 INTRODUCTION....1
1.1 Authorization....1
1.2 Background....1
1.3 Scope of Work....1
1.4 Report Organization....2
1.5 Report Availability....2
2.0 MONITORING....2
2.1 Rainfall Data....2
2.2 Master Water Meter....2
2.3 Groundwater Level Monitoring....3
2.3.1 Pacific Coast Highway (PCH) Region....4
2.3.2 Bluff Region....5
2.3.3 Eastern Mesa Region....5
2.3.4 Western Extension Region....6
2.3.5 Headscarp Region....6
2.4 Dewatering Well Production....6
2.5 Hydrauger Production....7
2.6 Slope Inclinometers....7
2.6.1 PCH Region....8
2.6.2 Bluff Region....8
2.6.3 Eastern Mesa Region....8
2.6.4 Central Mesa Region....8
2.6.5 Western Extension Region....9
2.6.6 Headscarp Region....9
2.7 Water Quality Monitoring....9
2.7.1 Regional Board Requirements....9
2.7.2 Water-Quality Results....10
3.0 DEWATERING FACILITY MAINTENANCE....11
3.1 Capital Improvements....11
3.2 Facility Maintenance....11
3.3 Anticipated Facility Maintenance....12
4.0 SUMMARY AND CONCLUSIONS....12
4.1 Annual Summary....12
4.2 Concluding Comments....14
5.0 REFERENCES....15

CONTENTS – CONTINUED

TABLES

Page

TABLE 1 - Summary of Average Groundwater Elevations by Area 4
TABLE 2 - Summary of Completed Facility Maintenance 11

PLATES

Plate

Site Location Map 1
Assessment District Map 2
Malibu Area - Monthly & Average Annual Rainfall 3
Total Dewatering Rate vs. Total Water Consumption 4
Groundwater Elevation Map 5a
Change in Groundwater Elevation Map May 1995 to May 2015 ..... 5b
Change in Groundwater Elevation Map May 2014 to May 2015 ..... 5c
Summary of Groundwater Levels, Dewatering, & Rainfall 6

APPENDICES

APPENDIX A GROUNDWATER LEVEL DATA

Piezometer Information – Standpipe Piezometers ..... Plate A-1a
Piezometer Information – Pneumatic Piezometers ..... Plate A-1b
Groundwater Elevation Data Analysis ..... Plate A-2a
Groundwater Elevation Data Analysis ..... Plate A-2b
Groundwater Elevation Data - PCH Region (Western Half) ..... Plate A-3a
Groundwater Elevation Data - PCH Region (Eastern Half) ..... Plate A-3b
Groundwater Elevation Data - Bluff Region ..... Plate A-4
Groundwater Elevation Data - Eastern Mesa Region ..... Plate A-5
Groundwater Elevation Data - Central Mesa Region ..... Plate A-6a
Groundwater Elevation Data - Central Mesa Region ..... Plate A-6b
Groundwater Elevation Data - Western Extension ..... Plate A-7
Groundwater Elevation Data - Headscarp Area ..... Plate A-8

APPENDIX B DEWATERING WELL DATA

Dewatering Well Information ..... Plate B-1
Discharge Rate for Dewatering Wells - Eastern Mesa Region ..... Plate B-2a
Discharge Rate for Dewatering Wells - Eastern Mesa Region ..... Plate B-2b
Discharge Rate for Dewatering Wells - Central Mesa Region ..... Plate B-3a
Discharge Rate for Dewatering Wells - Central Mesa Region ..... Plate B-3b
Discharge Rate for Dewatering Wells - Central Mesa Region ..... Plate B-3c
Discharge Rate for Dewatering Wells - Western Extension ..... Plate B-4

APPENDIX C HYDRAUGER DATA

Summary of Hydrauger Information ..... Plate C-1
Discharge Rate for Hydraugers - Eastern Mesa Region ..... Plate C-2a
Discharge Rate for Hydraugers - Eastern Mesa Region ..... Plate C-2b
Discharge Rate for Hydraugers - Central Mesa Region ..... Plate C-3a
Discharge Rate for Hydraugers - Central Mesa Region ..... Plate C-3b
Discharge Rate for Hydraugers - Western Extension ..... Plate C-4

CONTENTS - CONTINUED

APPENDIX D SLOPE INCLINOMETER PLOT / DATA

Slope Inclinometer Information ..... Plate D-1
Cumulative and Incremental Deflection A Direction Plot SP-11 ..... Plate D-2a
Cumulative and Incremental Deflection B Direction Plot SP-11 ..... Plate D-2b
Displacement vs. Time A Direction Plot SP-11 ..... Plate D-2c
Displacement vs. Time B Direction Plot SP-11 ..... Plate D-2d
Cumulative and Incremental Deflection A Direction Plot SP-12 ..... Plate D-3a
Cumulative and Incremental Deflection B Direction Plot SP-12 ..... Plate D-3b
Displacement vs. Time A Direction Plot SP-12… ..... Plate D-3c
Displacement vs. Time B Direction Plot SP-12 ..... Plate D-3d
Cumulative and Incremental Deflection A Direction Plot SP-14 ..... Plate D-4a
Cumulative and Incremental Deflection B Direction Plot SP-14 ..... Plate D-4b
Displacement vs. Time A Direction Plot SP-14 ..... Plate D-4c
Displacement vs. Time B Direction Plot SP-14 ..... Plate D-4d
Cumulative and Incremental Deflection A Direction Plot SP-15 ..... Plate D-5a
Cumulative and Incremental Deflection B Direction Plot SP-15 ..... Plate D-5b
Displacement vs. Time A Direction Plot SP-15 ..... Plate D-5c
Displacement vs. Time B Direction Plot SP-15 ..... Plate D-5d
Cumulative and Incremental Deflection A Direction Plot SP-19 ..... Plate D-6a
Cumulative and Incremental Deflection B Direction Plot SP-19 ..... Plate D-6b
Displacement vs. Time A Direction Plot SP-19 ..... Plate D-6c
Displacement vs. Time B Direction Plot SP-19 ..... Plate D-6d
Cumulative and Incremental Deflection A Direction Plot SP-27A ..... Plate D-7a
Cumulative and Incremental Deflection B Direction Plot SP-27A ..... Plate D-7b
Displacement vs. Time A Direction Plot SP-27A ..... Plate D-7c
Displacement vs. Time B Direction Plot SP-27A ..... Plate D-7d
Cumulative and Incremental Deflection A Direction Plot SP-29 ..... Plate D-8a
Cumulative and Incremental Deflection B Direction Plot SP-29 ..... Plate D-8b
Displacement vs. Time A Direction Plot SP-29 ..... Plate D-8c
Displacement vs. Time B Direction Plot SP-29 ..... Plate D-8d
Cumulative and Incremental Deflection A Direction Plot SP-30 ..... Plate D-9a
Cumulative and Incremental Deflection B Direction Plot SP-30 ..... Plate D-9b
Displacement vs. Time A Direction Plot SP-30 ..... Plate D-9c
Displacement vs. Time B Direction Plot SP-30 ..... Plate D-9d
Cumulative and Incremental Deflection A Direction Plot SP-10 ..... Plate D-10a
Cumulative and Incremental Deflection B Direction Plot SP-10 ..... Plate D-10b
Displacement vs. Time A Direction Plot SP-10 ..... Plate D-10c
Displacement vs. Time B Direction Plot SP-10 ..... Plate D-10d
Cumulative and Incremental Deflection A Direction Plot SP-28 ..... Plate D-11a
Cumulative and Incremental Deflection B Direction Plot SP-28 ..... Plate D-11b
Displacement vs. Time A Direction Plot SP-28 ..... Plate D-11c
Displacement vs. Time B Direction Plot SP-28 ..... Plate D-11d
Cumulative and Incremental Deflection A Direction Plot SP-32 ..... Plate D-12a
Cumulative and Incremental Deflection B Direction Plot SP-32 ..... Plate D-12b
Displacement vs. Time A Direction Plot SP-32 ..... Plate D-12c
Displacement vs. Time B Direction Plot SP-32 ..... Plate D-12d
Cumulative and Incremental Deflection A Direction Plot PC-1 ..... Plate D-13a
Cumulative and Incremental Deflection B Direction Plot PC-1 ..... Plate D-13b
Displacement vs. Time A Direction Plot PC-1 ..... Plate D-13c
Displacement vs. Time B Direction Plot PC-1 ..... Plate D-13d

CONTENTS - CONTINUED

Cumulative and Incremental Deflection A Direction Plot SP-3 ..... Plate D-14a
Cumulative and Incremental Deflection B Direction Plot SP-3 ..... Plate D-14b
Displacement vs. Time A Direction Plot SP-3..... Plate D-14c
Displacement vs. Time B Direction Plot SP-3..... Plate D-14d
Cumulative and Incremental Deflection A Direction Plot SP-3A..... Plate D-15a
Cumulative and Incremental Deflection B Direction Plot SP-3A..... Plate D-15b
Displacement vs. Time A Direction Plot SP-3A ..... Plate D-15c
Displacement vs. Time B Direction Plot SP-3A ..... Plate D-15d
Cumulative and Incremental Deflection A Direction Plot SP-33 ..... Plate D-16a
Cumulative and Incremental Deflection B Direction Plot SP-33 ..... Plate D-16b
Displacement vs. Time A Direction Plot SP-33..... Plate D-16c
Displacement vs. Time B Direction Plot SP-33..... Plate D-16d
Cumulative and Incremental Deflection A Direction Plot SP-9A..... Plate D-17a
Cumulative and Incremental Deflection B Direction Plot SP-9A ..... Plate D-17b
Displacement vs. Time A Direction Plot SP-9A ..... Plate D-17c
Displacement vs. Time B Direction Plot SP-9A ..... Plate D-17d
Cumulative and Incremental Deflection A Direction Plot SP-16A..... Plate D-18a
Cumulative and Incremental Deflection B Direction Plot SP-16A..... Plate D-18b
Displacement vs. Time A Direction Plot SP-16A ..... Plate D-18c
Displacement vs. Time B Direction Plot SP-16A ..... Plate D-18d
Cumulative and Incremental Deflection A Direction Plot SP-17B..... Plate D-19a
Cumulative and Incremental Deflection B Direction Plot SP-17B ..... Plate D-19b
Displacement vs. Time A Direction Plot SP-17B ..... Plate D-19c
Displacement vs. Time B Direction Plot SP-17B ..... Plate D-19d
Cumulative and Incremental Deflection A Direction Plot SP-24 ..... Plate D-20a
Cumulative and Incremental Deflection B Direction Plot SP-24 ..... Plate D-20b
Displacement vs. Time A Direction Plot SP-24..... Plate D-20c
Displacement vs. Time B Direction Plot SP-24..... Plate D-20d
Cumulative and Incremental Deflection A Direction Plot SP-34 ..... Plate D-21a
Cumulative and Incremental Deflection B Direction Plot SP-34 ..... Plate D-21b
Displacement vs. Time A Direction Plot SP-34..... Plate D-21c
Displacement vs. Time B Direction Plot SP-34..... Plate D-21d
Cumulative and Incremental Deflection A Direction Plot SP-35 ..... Plate D-22a
Cumulative and Incremental Deflection B Direction Plot SP-35 ..... Plate D-22b
Displacement vs. Time A Direction Plot SP-35..... Plate D-22c
Displacement vs. Time B Direction Plot SP-35..... Plate D-22d
Cumulative and Incremental Deflection A Direction Plot SP-36 ..... Plate D-23a
Cumulative and Incremental Deflection B Direction Plot SP-36 ..... Plate D-23b
Displacement vs. Time A Direction Plot SP-36..... Plate D-23c
Displacement vs. Time B Direction Plot SP-36..... Plate D-23d
Cumulative and Incremental Deflection A Direction Plot SP-20 ..... Plate D-24a
Cumulative and Incremental Deflection B Direction Plot SP-20 ..... Plate D-24b
Displacement vs. Time A Direction Plot SP-20..... Plate D-24c
Displacement vs. Time B Direction Plot SP-20..... Plate D-24d
Cumulative and Incremental Deflection A Direction Plot SP-21 ..... Plate D-25a
Cumulative and Incremental Deflection B Direction Plot SP-21 ..... Plate D-25b
Displacement vs. Time A Direction Plot SP-21..... Plate D-25c
Displacement vs. Time B Direction Plot SP-21..... Plate D-25d
Cumulative and Incremental Deflection A Direction Plot SP-22 ..... Plate D-26a
Cumulative and Incremental Deflection B Direction Plot SP-22 ..... Plate D-26b
Displacement vs. Time A Direction Plot SP-22..... Plate D-26c
Displacement vs. Time B Direction Plot SP-22..... Plate D-26d

CONTENTS - CONTINUED

Cumulative and Incremental Deflection A Direction Plot SP-23 ..... Plate D-27a
Cumulative and Incremental Deflection B Direction Plot SP-23 ..... Plate D-27b
Displacement vs. Time A Direction Plot SP-23..... Plate D-27c
Displacement vs. Time B Direction Plot SP-23..... Plate D-27d
Cumulative and Incremental Deflection A Direction Plot SP-26 ..... Plate D-28a
Cumulative and Incremental Deflection B Direction Plot SP-26 ..... Plate D-28b
Displacement vs. Time A Direction Plot SP-26..... Plate D-28c
Displacement vs. Time B Direction Plot SP-26..... Plate D-28d

APPENDIX E WATER QUALITY TESTING

Summary of Water Quality Monitoring Data – Third Quarter (Jul.-Sep.) 2014..... Plate E-1
Summary of Water Quality Monitoring Data – Fourth Quarter (Oct.-Dec.) 2014 ..... Plate E-2
Summary of Water Quality Monitoring Data – First Quarter (Jan.-Mar.) 2015..... Plate E-3
Summary of Water Quality Monitoring Data – Second Quarter (Apr.-Jun.) 2015 ..... Plate E-4
Water Quality Laboratory Data – Third Quarter (Jul.-Sep.) ..... Appendix E-1
Water Quality Laboratory Data – Fourth Quarter (Oct.-Dec.) 2014 ..... Appendix E-2
Water Quality Laboratory Data – First Quarter (Jan.-Mar.) 2015..... Appendix E-3
Water Quality Laboratory Data – Second Quarter (Apr.-Jun.) 2015..... Appendix E-4

1.0 INTRODUCTION

1.1 AUTHORIZATION

Fugro Consultants, Inc. (Fugro), performed the work summarized in this report in accordance with our contract with the City of Malibu (City) and consistent with the cost estimate document "Exhibit A - FY 2014-2015 Maintenance Cost Estimate" presented in the Annual Assessment Report (Taussig, 2014).

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 of Malibu (City) incorporated. The Assessment District was re-authorized in May 1998 under Resolution AD No. 98-030. 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 current monitoring and maintenance of the geotechnical instrumentation and dewatering facilities for the period between July 1, 2014, and June 30, 2015 (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 of Los Angeles;
- Monthly groundwater level measurements from 28 standpipes;
- Periodic groundwater measurements from 16 pneumatic piezometers;
- Monthly dewatering production readings from 23 dewatering wells;
- Monthly dewatering production readings from 31 horizontal drains (hydraugers);
- Quarterly ground deformation readings from 27 slope inclinometers (geotechnical instrumentation);
- Monthly readings of water usage data from the Mesa's master flow meter; and
- Monthly 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 engineering evaluation of the stability of the landslide.

1.4 REPORT ORGANIZATION

This report summarizes the monitoring data collected during the current 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. Reports may also be viewed on the City's website at http://www.malibucity.org.

2.0 MONITORING

2.1 RAINFALL DATA

Rainfall totals were tabulated based on recorded values from the Los Angeles County Rainfall Station 1239 - located at Big Rock Mesa since 2004, and on an average from three Rainfall Stations referred to as the “Malibu area” between 1968 and 2004. A graph of historical monthly rainfall and average annual rainfall through September 30, 2015 is shown on Plate 3, Malibu Area - Monthly & Average Annual Rainfall.

Rainfall data indicate that approximately 8.70 inches of precipitation fell during the monitoring period from July 1, 2014 through June 30, 2015. The average annual rainfall from 1968 to 2015 in the “Malibu area” for the monitoring period July through June is approximately 15.6 inches.

Rainfall data are usually analyzed in terms of the annual "rain season" that covers the time period October 1 through September 30. Rainfall for October 1, 2014, through September 30, 2015, was approximately 10.75 inches. This is approximately 33 percent lower than the average annual rainfall of 16.0 inches for the “rain seasons” of 1968 through 2015.

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. The master water 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.
- The trend of increased water consumption since about 1995 was interrupted with the reduced landscape irrigation during the extended high rainfall in the spring of 2005, 2006, and again in the winter of 2011.
- As illustrated on Plate 4, there has been a general increasing trend in water usage since about 1995. Average water usage during the 2014 through 2015 monitoring year was approximately 175,600 gallons per day (gpd), which is approximately 7.1 percent less than the 2013 through 2014 monitoring year average of 190,000 gpd.

2.3 GROUNDWATER LEVEL MONITORING

The groundwater monitoring data collected during the 2014-2015 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 onsite wastewater treatment 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 gravity-draining hydraugers.

Groundwater levels were typically measured in monitoring wells on a monthly basis, pneumatic piezometers were measured intermittently. 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. Groundwater elevation maps for May 8, 1995, and May 6, 2015, are shown on Plate 5a. A map of the changes in ground water elevation between May 1995 and May 2015 is shown on Plate 5b. A map of the changes in ground water elevation between May 2014 and May 2015 is shown on Plate 5c.

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 2015). 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 summarized on the following table:

Table 1. Summary of Average Groundwater Elevations by Area

	Total No. of Wells	No. of Wells with High[1] GW	2014-15 Average Groundwater Elevation (ft)	Change in Average Groundwater from Prior Monitoring Period Average (ft)	2014-2015 Average Peak Groundwater Elevation (ft)	Change in Average Peak Elevation from Prior Monitoring Period (ft)
PCH Region	8	1	8.1	-1.3	9.1	-0.7
Bluff Region	4	0	34.2	-20.2	36.4	-18.8
Eastern Mesa	4	0	87.6	-5.4	92.2	-1.4
Central Mesa	8	3	192.0	-3.0	202.0	-3.0
Western Extension	4	3	383.0	-4.6	394.8	-7.9
Headscarp Region	1	0	552.1	+0.6	552.6	+0.6

1. *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 the bottom graph of Plate 6. The top graph on Plate 6 shows the average dewatering output (gpd) and the annual departure from the mean rainfall. The average annual rainfall used for the chart was computed using all of the data from 1988 through the present. This graph illustrates that, since 2010-2011, annual rainfall has been decreasing. The state of California is enduring drought conditions. During the same period, the average dewatering output has been gradually decreasing.

2.3.1 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 generally below long-term average levels (1991 through 2015) during the monitoring period. As noted in previous monitoring reports, standpipe SP-30 has shown a slow, steady rising groundwater level since the 1998 monitoring year (8.5' in 1998-1999 to 15.7' in 2009-2010). However, the groundwater level from the 2010-2011 year to present had stabilized (fluctuations of less than one foot) At the City's request, Los Angeles County Water District 29 inspected the PCH region of the Assessment District looking for leaks or damage to any of their water line infrastructure. None were found. During the

course of this monitoring year, average water levels in SP-30 declined by two feet to 13.6' but remain at 1.8 feet above the long-term average. The mean groundwater level in standpipe SP-27A rose sharply during the 2013-2014 monitoring year, from 10.5' to 17.1' and during the last monitoring year declined by 7.4 feet to 9.7 feet which is below the long term average and appears to have stabilized.

2.3.2 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 the level of fracturing.

The area groundwater average in the Bluff Region was 24 feet below long-term average levels (1991 through 2015) during the monitoring period. Average water elevations in standpipe SP-32 declined sharply over the last monitoring period from 105.6' to 35.7' and are 55.6' below the long-term average. Prior to last year, the annual average groundwater level at standpipe SP-32 has been steadily increasing since 2002 from 89.9' to 105.6' and had then appeared to stabilize by 2005 with the exception of some intermittent one to two month duration declines of 5' to 10'. Groundwater levels at standpipe SP-34 are significantly lower due to the installation of FW-2 in February 2010; average groundwater levels are currently approximately 11.3 feet below the previous monitoring period and approximately 43 feet below the long term average, and are continuing to decline. Groundwater elevations in SP-10 and SP-28 remain stable and are within about half a foot of the long term average.

2.3.3 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 average groundwater elevation in the Eastern Mesa Region was below long-term average levels (1991 through 2015) during the last monitoring period. Average groundwater levels for standpipe SP-3A decreased 9 feet from the previous monitoring period, and standpipe SP-3 has dried with no measurable water level during the 2014-2015 monitoring period. The groundwater levels in standpipes PC-1 remained essentially the same from the previous monitoring period. Groundwater levels in SP-33, after a steady, slow decline since 1992 increased about 4 feet from the previous monitoring year, but still remain 12 feet below long term average elevations.

2.3.4 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.

Area average groundwater elevations in the Central Mesa Region were below long-term average levels (1991 through 2015) during the last monitoring period; however, in standpipes SP-24, SP-35 and SP-16 groundwater levels were higher. During the 2013-2014 monitoring period, the average groundwater level in standpipe SP-24 had risen 51' from the 2012-2013 monitoring period, and was approximately 44' above the long-term average groundwater level. The higher groundwater level in this well was most likely attributable to a blockage in the conveyance line for Hydraugers HD-10 and HD-11, discovered in early summer 2014. Water was backed up in the hydraugers until the blockage was repaired, and hydrauger flows returned to normal. Average water levels in SP-24 have since declined 40' to just 3.5' above the long term average by June 2015. Average water levels in standpipe SP-16 have risen 36' since 2013-2014, from 57' to 93' and are 29' above the long term average, however water levels within this standpipe historically exhibits significant fluctuations.

2.3.4 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 active 1983 Big Rock Mesa Landslide area.

The average groundwater levels at SP-20 and SP-23 have been variable from monitoring year to monitoring year since 1998. Average groundwater levels within SP-20 have increased 21 feet since the 2013-2014 monitoring year, however during that year, the average water levels were significantly lower than the historic average and have now returned to about 5 feet above the long term average. Average groundwater levels in SP-23 were 19 feet below the long term average over 2014-2015, however they are still above the pre-1998 El-Nino year levels

Average water levels in SP-22 have continued to gradually increase each year. The average for 2014-2015 is about 8 feet above the prior year's average and are about 6 feet above the long term average.

2.3.5 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 level in standpipe SP-26 was slightly lower than the long term average level (1991 through 2015) during the monitoring period. Groundwater levels have not returned to pre-2005 or pre-1998 levels, and the average groundwater level for the current monitoring period is approximately 0.6 feet lower than the previous monitoring period.

2.4 DEWATERING WELL PRODUCTION

The total production rate for all dewatering wells from 1984 through June 2015 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 40,138 gpd. This is approximately 15 percent less than the previous year's monitoring period value of 47,108 gpd, and below historical average production of 55,218 gpd measured from 1993 to the present.

Due to access and flow-meter maintenance issues, the total production calculations did not include measurements from dewatering wells FW-1 and W-2 which contributed a combined 3,240 gpd last year.

2.5 HYDRAUGER PRODUCTION

The total production rate for all hydraugers from 1993 through June 2015 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 total hydrauger production rate over the monitoring period was approximately 13,976 gpd. That represents a 55 percent increase in production relative to the previous monitoring period (9,002 gpd). Hydraugers produced below historical average volumes of water throughout the monitoring period. Because hydraugers rely on gravity and water pressure (related to elevated groundwater table) for water production, hydraugers generally produce lower volumes during lower rainfall periods. Hydraugers typically respond well to years of higher than average rainfall; production generally increases at a rapid rate immediately following larger rain events.

2.6 SLOPE INCLINOMETERS

Fugro monitored 27 slope inclinometers on a quarterly basis to check for subsurface ground deformation through June 2015.

Slope inclinometer measurement plots are presented in Appendix D. Four slope inclinometer plots are prepared for all inclinometer installations. The first plot, for each inclinometer, shows the cumulative deflection and incremental deflection for the A-direction and the second plot shows the cumulative deflection and incremental deflection for the B-direction. Those two plots show approximately one curve per year from about 2006 through the current monitoring year. The third and fourth plots show displacement versus time for the same period, but all of the intermediate readings are also included on those plots.

When reviewing and interpreting the slope inclinometer data plots, instrument limitations and movement history should be considered. Individual plots have been reviewed and interpreted with regard to movement along identified slide planes. Interpreted movement along the identified slide planes is summarized on Plate D-1 in Appendix D. Some slope inclinometer plots show minor amounts of displacement measured at the ground surface during the 2014 through 2015 monitoring period. Measurement along identified slide planes during the 2014 through 2015 monitoring period is less than 0.2 inch.

Interpretation of inclinometer data shows consistent ground movement in only 2 of the 29 inclinometers monitored during the 2012 through 2015 monitoring period. SP-11 shows a change of about 0.2 inch from the surface to a depth of 25 feet; and SP-17B shows a change of about 0.2 inch from the surface to a depth of about 200 feet. Several inclinometers show some inconsistent changes (typically <0.1 to 0.2 inch), but the potential movement magnitude and orientation is not clear and is not within the reliable accuracy of the instrument. Some of the irregular shapes observed in the deep inclinometers can be attributed to depth position errors caused by cable length changes and ground settlement, common to such deep inclinometers.

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 inclinometer 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 historically interpreted movement above the base of the Big Rock Mesa Landslide have also been noted.

2.6.1 PCH Region

The PCH Region extends along PCH in proximity of the southern boundary of the 1983 landslide. SP-11 shows a change of 0.2 inch from the surface to a depth of 25 feet during the monitoring period. The remaining wells in the region show offsets ranging from insignificant to none.

2.6.2 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. The inclinometers in that area are deep and show evidence of depth position errors, probably associated with ground settlement and/or cable stretch. No significant offsets within the inclinometers in the Bluff Region were observed.

2.6.3 Eastern Mesa Region

The Eastern Mesa Region extends west to the ends of Inland Lane and the Piedra Chica cul-de-sac. This area is bordered to the north by Big Rock Drive and to the south by the Bluff Region. The inclinometers in that area are deep and show evidence of depth position errors, probably associated with ground settlement and/or cable stretch. No significant offsets within the inclinometers in the Eastern Mesa Region were observed.

2.6.4 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. The inclinometers in that area are deep and show evidence of depth position errors, probably associated with ground settlement and/or cable stretch. No significant offsets within the inclinometers in the Central Mesa Region were

observed. However, SP17B has shown indications of minor movement at a depth of about 200 feet and SP-24 has shown indications of movement within the upper 70 feet.

2.6.5 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. The inclinometers in that area are deep and show evidence of depth position errors, probably associated with ground settlement and/or cable stretch. No significant offsets within the inclinometers in the Western Extension Region were observed.

2.6.6 Headscarp Region

The Headscarp Region borders the Central Mesa Region to the north. 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. The inclinometer in that area is deep and shows evidence of depth position errors, probably associated with ground settlement and/or cable stretch. No significant offsets within SP-26 in the Western Extension Region were observed. Past movement has occurred along the identified slide plane between a depth of 120 and 130 feet and from shallow depths of 25 and 45 feet reflecting a smaller "headscarp" landslide.

2.7 WATER QUALITY MONITORING

2.7.1 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 General NPDES permit CAG994004, Order No. R4-2003-011. On October 3, 2008, Order No. R4-2003-0111 was superseded by Order No. R4-2008-0032 providing revised requirements for sampling and analysis. Residual chlorine was not a required element of the sampling and testing plan until the end of the second quarter 2010. A revised permit was issued to the City in October 2010 requiring all discharge points to be sampled monthly for all constituents, except for Acute Toxicity, which is to be tested for annually. On June 5, 2015 order No. R4-2003-0032 was superseded by general order number R4-2013-0095 (permit).

Fugro completed quarterly sampling under the new, revised permit during this past year. Water quality data summary sheets for each quarter of the 2014-2015 monitoring period are provided as Plate E-1 through E-4 in Appendix E. Laboratory data reports follow the summary plates as Appendix E-1 through Appendix E-4.

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 storm water runoff (during and following precipitation), irrigation runoff, domestic use surface runoff

from car washing and hosing-off of driveways, illicit discharges, groundwater seepage, and other possible unidentified sources.

Prior to 2004, samples were collected from storm drain outlets. In November 2004, sampling locations were changed prior to fourth quarter of 2004 because the samples collected from storm drains represent discharge from uncontrolled sources in addition to dewatering discharge. From November 2004 until February 2015, samples were collected directly from the dewatering system discharge lines (wells and hydraugers). On February 25, 2015 Fugro was advised by the RWQCB with a Notice of Violation (NOV) to immediately stop sampling from the individual dewatering facilities and to immediately resume sampling from the storm drain outfall locations previously identified by the RWQCB as discharge points for the purpose of the permit.

Beginning in March 2015 and continuing through the end of the 2014-2015 monitoring year, samples were collected directly from the ten storm drain outfall discharge points with two exceptions. Outfall discharge point M-009 could not be located and was instead sampled directly from hydrauger HD-7, which is the only dewatering source flowing into the discharge point M-009 storm drain. Also, outfall discharge point M-003 has very low flow and was therefore sampled directly from hydrauger HD-41, which provides the vast majority of the dewatering flow to the storm drain for discharge point M-003.

Beginning in November 2014, in an effort to improve data quality, residual chlorine testing was no longer tested by the analytical laboratory, but was instead performed onsite using a field colorimeter test.

2.7.2 Water-Quality Results

Results of water quality analyses for the monitoring period are presented in Appendix E. Water quality monitoring was conducted in general conformance with the requirements of the RWQCB NPDES Permit No. R4-2003-0032 from August 2014 through May 2015 (there was no sampling performed in July 2014) and then, beginning in June 2015, was performed in conformance with the new NPDES permit, No. R4-2013-0095.

Analytical testing results indicate that all monitored discharges were in compliance during the third and fourth quarter of 2014.

During the first quarter of 2015, residual chlorine exceedances were detected in January in the discharge port for dewatering well W-8 and in February from the discharge port for dewatering well BYA-3. Subsequent monthly sampling during the first quarter did not result in any further residual chlorine exceedances at either points W-8 or BYA-3.

During March, subsequent to the NOV of February 25, 2015, Fugro resumed sampling directly from the storm drain discharge points. Exceedances for surfactants (MBAS) were detected at discharge points M-004 and M-005. Fugro began weekly sampling for MBAS at both M-004 and M-005. During the weekly sampling, samples from M-004 did not have any further MBAS exceedances, but the sample from M-005 again exceeded the daily limit on April 4, 2015.

During April of the second quarter of 2015, all monitored discharges were in compliance During May, exceedances for MBAS were again detected at discharge point M-005 It was noted during sampling that there appeared to be suds present in the water around the discharge location.

Starting in June 2015, sampling was performed in compliance with the new NPDES permit and included the addition of several analytes to the monthly testing suite (see Plate E -4). Exceedances for residual chlorine were detected at discharge points M-001, M-002, M-009 and M-010. Subsequent to those exceedances, Fugro evaluated and modified the field decontamination procedures for residual chlorine to onsite testing. The sample from discharge point M-005 measured exceedances for MBAS, settleable solids, and TPH. The duplicate sample from discharge point M-008 exceeded the daily maximum limit for zinc, but the sample itself did not.

Bacteriological testing for Total Coliform, Fecal Coliform and Enterococcus was added to the monthly testing under the new permit and resulted in detections at several discharge points during the June sampling event. However, the results for Total Coliform at discharge points M-001, M-002, M-004, M-005, M-006, M-007, M-008, and M-010 and the results for Fecal Coliform at discharge points M-002, M-004, and M-005 were unable to be compared to the daily limit because of the laboratory method used. Fugro requested the laboratory method be changed on subsequent testing to allow that comparison. Exceedances for Enterococcus were detected in samples from discharge points M-004, M-005, M-007, M-008, and M-010. Fugro will continue to monitor and report the results of bacteriological levels in consultation with the RWQCB.

3.0 DEWATERING FACILITY MAINTENANCE

3.1 CAPITAL IMPROVEMENTS

No capital improvements were performed during the monitoring period.

3.2 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 brush clearance, cleaning, and well pump and electrical repairs. Additionally, the following repairs were made to facilities BYA-15, W-1, and W-2 during the 2014-2015 monitoring year.

Table 2. Summary of Completed Facility Maintenance

Facility	Date of Repair	Repair
BYA-15	6/29/2015	New pump, motor, drop-pipe, and air line
W-1	6/24/2015	Repair leaking discharge line, replace flow-meter
W-2	6/24/2015	Replace flow-meter

3.3 ANTICIPATED FACILITY REPAIR INVENTORY

Some necessary facility repairs are of a large enough scope such that the costs exceed the normal facility maintenance budget. Those larger projects are identified below and should be considered a priority when additional funding can be made available.

- Dewatering well BYA-14 had a sudden loss of production during August 2015. It was immediately evaluated by a well contractor and it was determined that the pump impellers are worn out and will need to be replaced. BYA-14 produced an average of 603 gpd over the last monitoring year, however during rainy years it can produce larger volumes such as in 2005, when it produced over 3,000 gpd over several months.
- Dewatering well BYA-1 has been experiencing a steady decline in production due to the drought conditions. However, since February 2014, large fluctuations in production have been measured, and the well generates intermittently discolored, rusty water. The maintenance history of BYA -1 indicated that the well has had a continuous issue with sedimentation and that it had been re-developed with good results in 1995 and 1999. The pump assembly was replaced in 2005 and again in 2011. BYA-1 should be investigated for possible re-development and/or pump maintenance by a well contractor.
- Dewatering well BYA-4 experienced a sudden drop in production in March 2015 and has not produced any water since April 2015. Since BYA-4 typically produces approximately 5,500 gpd to 6,000 gpd, its repair should be considered a priority before the rainy season. Initial inspection of the pump control system, performed in 2015 determined that the pump-saver electronics must be replaced before a further diagnosis can be completed.
- Consideration should be given to replacing Inclinometers SP-28 and SP-26. Inclinometer SP-28, located in the Bluff area, has sheared extensively and is no longer able to be surveyed. Inclinometer SP-26 has developed two areas of shear in the casing that are beginning to impede the traverse of the inclinometer probe. SP-26 is the only inclinometer remaining in the headscarp area and the casing penetrates both the basal shear zone of the main slide and also the shear zone for a shallower sub-slide. Further shearing to SP-26 may soon result in loss of Fugro's ability to monitor that facility.

4.0 SUMMARY AND CONCLUSIONS

4.1 ANNUAL SUMMARY

The status of the Big Rock Mesa Landslide Assessment District can be summarized as follows:

- The groundwater level in the Big Rock Mesa landslide is the primary factor controlling the stability of the landslide mass. Rises in groundwater level tend to de-

stabilize 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) Onsite wastewater treatment system discharge, 2) Rainfall, 3) Irrigation, and 4) Water-line and pool leakage.

- Monitoring data related to rainfall and imported water usage indicate the following:
  - Rainfall during this rain-season period (October to September) was 10.75 inches of precipitation, which is well below the average annual rainfall during the "rain season" of 16.0 inches. Rainfall during the Malibu "monitoring period" (July to June) was 8.7 inches of precipitation, which is also below the historical annual average of 15.6 inches per year measured between July and June from 1968 through June 2015.
  - Use of imported water decreased approximately 7.8 percent from the previous monitoring year (175,600 gpd vs 190,400 gpd) and is 50 percent above the average usage in 1984 (117,400 gpd).
- Groundwater levels in 28 monitoring wells were measured regularly during the monitoring period. Average groundwater levels and/or peak groundwater levels measured during the monitoring period were more than 1 foot above long term average groundwater levels for 7 of the 28 wells and piezometers.
- Groundwater levels in the western region have been variable since 1998. That area of approximately 79 acres is dewatered by two wells and five hydraugers; however, over seventy percent of the production is provided by one well, W-18.
- Groundwater levels in SP-30 along Pacific Coast Highway reflect a long term trend of increasing groundwater levels. Groundwater levels in SP-30 from the 2010-2011 year through the 2013-2014 monitoring year had stabilized (fluctuations less than one foot) and have since declined over 2014-2015 monitoring year. No dewatering facilities have been constructed along Pacific Coast Highway.
- The average total well production rate for the monitoring period was approximately 40,696 gpd. This is a 15 percent decrease compared to the previous year's monitoring period value of 47,108 gpd, and below historical average production of 55,218 gpd measured from 1993 to the present.
- The average total hydrauger production rate over the monitoring period was approximately 13,976 gpd. That represents a 55 percent increase in production relative to the previous monitoring period (9,002 gpd).
- Interpretation of inclinometer data shows consistent ground movement in only a few of the inclinometers monitored during the 2014 through 2015 monitoring period. For example, SP-11 shows a change of about 0.21 inch from the surface to a depth of 25 feet and SP-17B shows a change of about 0.2 inch from the surface to a depth of

about 200 feet. Several inclinometers show some minor change (<0.1 to <0.2 inches), but the potential movement magnitude and orientation is generally not significant and is not within the reliable accuracy of the instrument considering that there is evidence of depth position errors associated with settlement and/or cable stretch in the deep inclinometers.

- Water quality monitoring, conducted in general conformance with the requirements of the RWQCB NPDES Permit which became effective June 5, 2015, indicate consistent exceedances for bacteriological analytes at several discharge points. It was also noted that switching sample locations from the individual facility discharges back to the storm drain outfalls appears to have resulted in detection of exceedances that were not typically present when sampling occurred directly from the facilities during November 2004 to March 2015.
- 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.

4.2 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.

Particularly, the combination of increasing groundwater levels and limited production and redundancy of dewatering facilities in the western region is of primary concern. All dewatering facilities within this region should be reviewed on an individual basis and repaired or replaced as necessary in an effort to help keep groundwater levels as low as possible.

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

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

5.0 REFERENCES

Bing Yen and Associates, Inc. (2003), "Annual Observation & Maintenance Report for the Period July 2002 to June 2003, Big Rock Mesa, Malibu, California," dated December.

_____ (2002), "Annual Observation & Maintenance Report for the Period July 2001 to June 2002, Big Rock Mesa, Malibu, California," dated March.

_____ (2001), "Annual Observation & Maintenance Report for the Period July 2000 to June 2001, Big Rock Mesa, Malibu, California," dated October.

_____ (2000), "Annual Observation & Maintenance Report for the Period April 1999 to June 2000, Big Rock Mesa, Malibu, California," dated August.

_____ (1999), "Annual Observation & Maintenance Report for the Period July 1998 to April 1999, Big Rock Mesa, Malibu, California," dated April.

_____ (1998), "Annual Observation & Maintenance Report for the Period July 1997 to April 1998, Big Rock Mesa, Malibu, California," dated April.

_____ (1997), "Annual Observation & Maintenance Report for the Period July 1996 to July 1997, Big Rock Mesa, Malibu, California," dated June.

_____ (1996), "Annual Observation & Maintenance Report for the Period July 1995 to July 1996, Big Rock Mesa, Malibu, California," dated September.

_____ (1996), "Slope Stability Evaluation - South Facing Slope Region," dated November.

_____ (1995), "Annual Observation & Maintenance Report for the Period July 1994 to July 1995, Big Rock Mesa, Malibu, California," dated September.

_____ (1994), "Annual Observation & Maintenance Report for the Period July 1993 to July 1994, Big Rock Mesa, Malibu, California," dated September.

_____ (1993), "Semi-Annual Observation & Maintenance Report for the Period January to July 1993, Big Rock Mesa, Malibu, California," dated September.

_____ (1993), "Semi-Annual Observation & Maintenance Report for the Period July to December 1992, Big Rock Mesa, Malibu, California," dated February.

_____ (1992), "A Geotechnical Engineering Evaluation - Big Rock Mesa, Malibu, California," dated February.

Donald B. Kowalewsky (1994), "Engineering Geologic Report and Geotechnical Report for Proposed New Residence and Guest House, to Replace Previous Residence Destroyed by Fire at 20790 Rockpoint Road, Malibu, California," dated May 27.

David Taussig & Associates, Inc. (2014), "Annual Assessment District No. 98-1 (Big Rock Mesa) FY 2014-2015," dated June 22.

_____ (2012), "Annual Assessment District No. 98-1 (Big Rock Mesa) FY 2012-13," dated June 11.

_____ (2011), "Annual Assessment District No. 98-1 (Big Rock Mesa) FY 2011-12," dated June 11.

_____ (2010), "Annual Assessment District No. 98-1 (Big Rock Mesa) FY 2010-11," dated June 14.

_____ (2009), "Annual Assessment District No. 98-1 (Big Rock Mesa) FY 2009-10," dated June 8.

_____ (2008), "Annual Assessment District No. 98-1 (Big Rock Mesa) FY 2008-09," dated June 23.

_____ (2007), "Annual Assessment District No. 98-1 (Big Rock Mesa) FY 2007-08," dated June 25.

_____ (2006), "Annual Assessment District No. 98-1 (Big Rock Mesa) FY 2006-07," dated June 8.

Fugro Consultants, Inc. (2015), "Annual Report, July 2013 through June 2014, Big Rock Mesa Landslide Assessment District, Malibu, California," dated April.

Fugro Consultants, Inc. (2014), "Annual Report, July 2012 through June 2013, Big Rock Mesa Landslide Assessment District, Malibu, California," dated March 2014.

_____ (2012), "Annual Report, July 2011 through June 2012, Big Rock Mesa Landslide Assessment District, Malibu, California," dated September 2012.

_____ (2011), "Annual Report, July 2010 through June 2011, Big Rock Mesa Landslide Assessment District, Malibu, California," dated August 2011.

Fugro West, Inc. (2010), "Annual Report, July 2009 through June 2010 Malibu Road Landslide Assessment District, Malibu, California," dated May 2011.

_____ (2009), "Annual Report, July 2008 through June 2009 Malibu Road Landslide Assessment District, Malibu, California," dated October 2009.

_____ (2008), "Annual Report, July 2007 through June 2008 Malibu Road Landslide Assessment District, Malibu, California," dated August 2008.

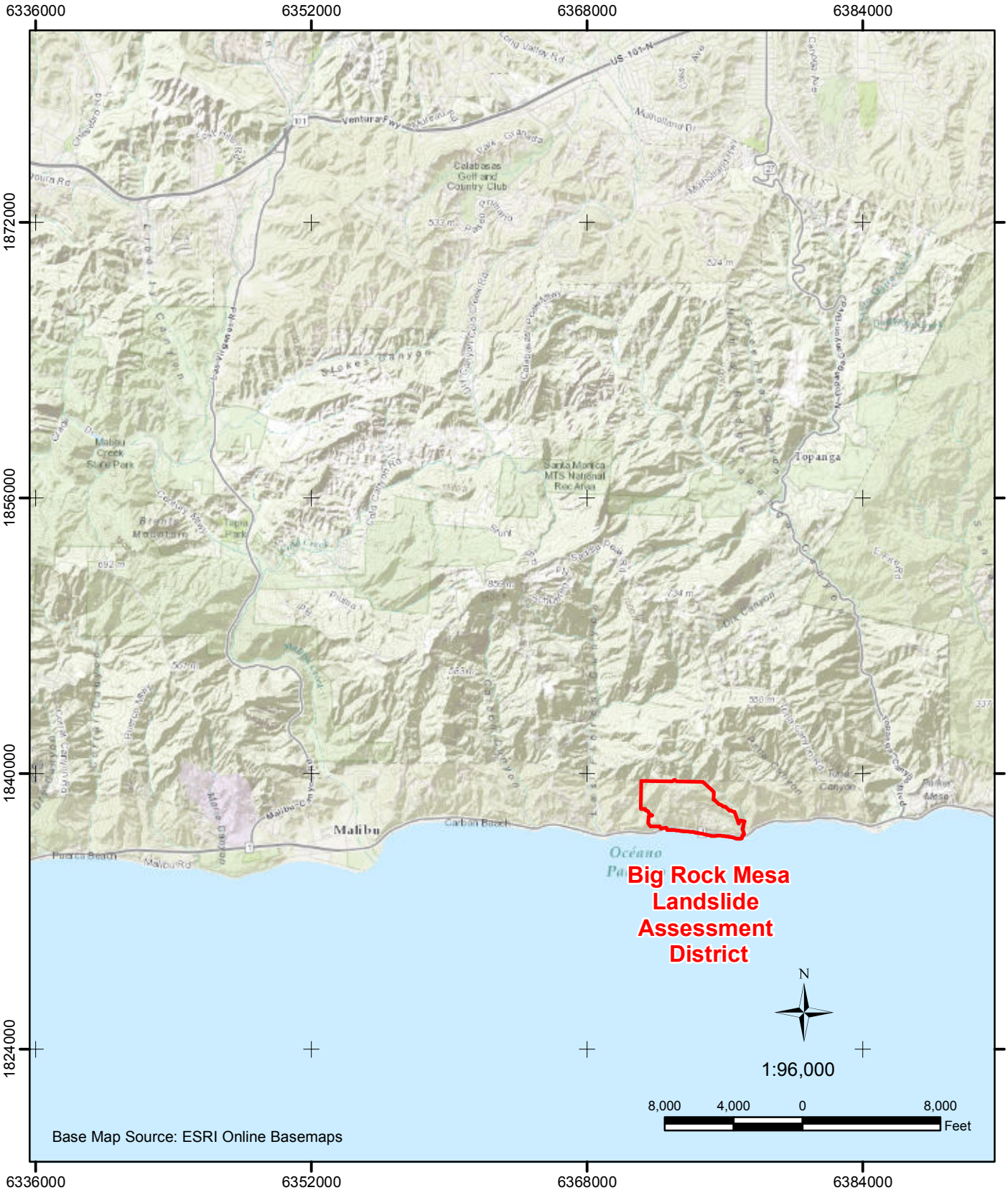
_____ (2007), "Annual Report, July 2006 through June 2007 Malibu Road Landslide Assessment District, Malibu, California," dated September 2007.

_____ (2006), "Annual Report, July 2005 through June 2006 Malibu Road Landslide Assessment District, Malibu, California," dated August 2006.

_____ (2005), "Annual Report, July 2004 through June 2005, Big Rock Mesa Landslide Assessment District, Malibu, California," dated October 2005.

_____ (2004), "Annual Report, July 2003 through June 2004 Malibu Road Landslide Assessment District, Malibu, California," dated November 2004.

PLATES



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

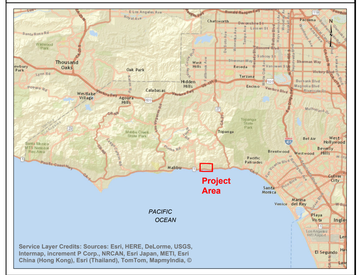
PLATE 1

N:\Projects\04_2014\04_6214_0606_City_of_Malibu_BigRockMesa\Outputs\2014_01_02_AnnualReportMXD\Plate-01_SiteLocation.mxd, 4/13/2015, wcupples

ASSESSMENT DISTRICT 98-1
BIG ROCK MESA
MALIBU, CALIFORNIA

ASSESSMENT DISTRICT MAP

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



LEGEND

- Dewatering Well
- Slope Inclinometer that does not Penetrate Rupture Surface
- Slope Inclinometer that does Penetrate Rupture Surface
- Piezometer
- GPS Monument
- Hydrauger Discharge Point
- Storm Drain Outfall
- Catch Basin
- Hydrauger
- Approximate Limits of Primary Land Movement
- Western Extension Boundary
- Big Rock Mesa Landslide Assessment District Boundary
- Storm Drain
- Trees/Brush
- Streams
- Building

Coordinate Grid: California State Plane, Zone 7, NAD 27, Feet
Vertical Datum: NAVD88 Feet

N

SCALE: 1:2,400

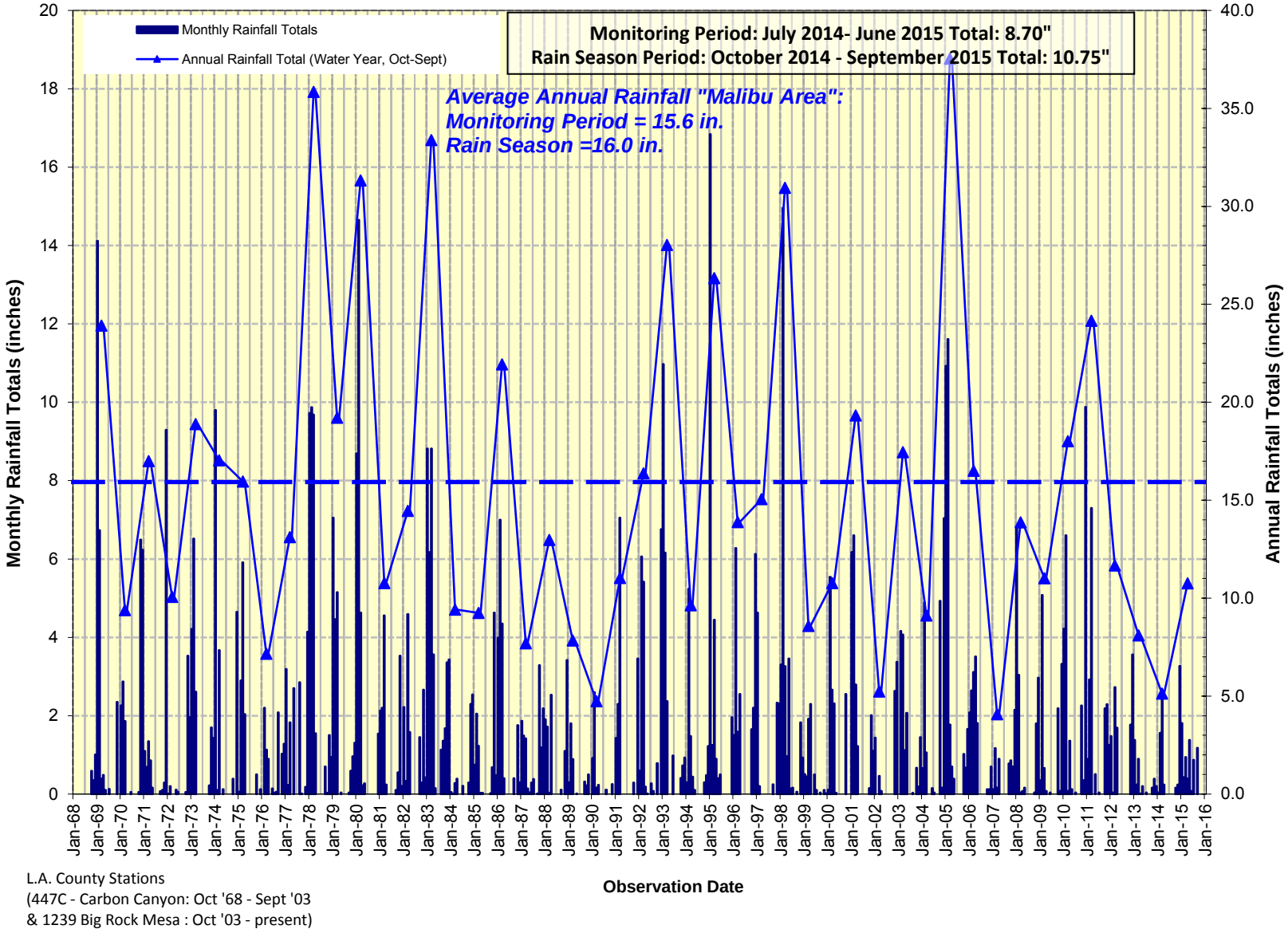
200 100 0 200 Feet

REVISIONS

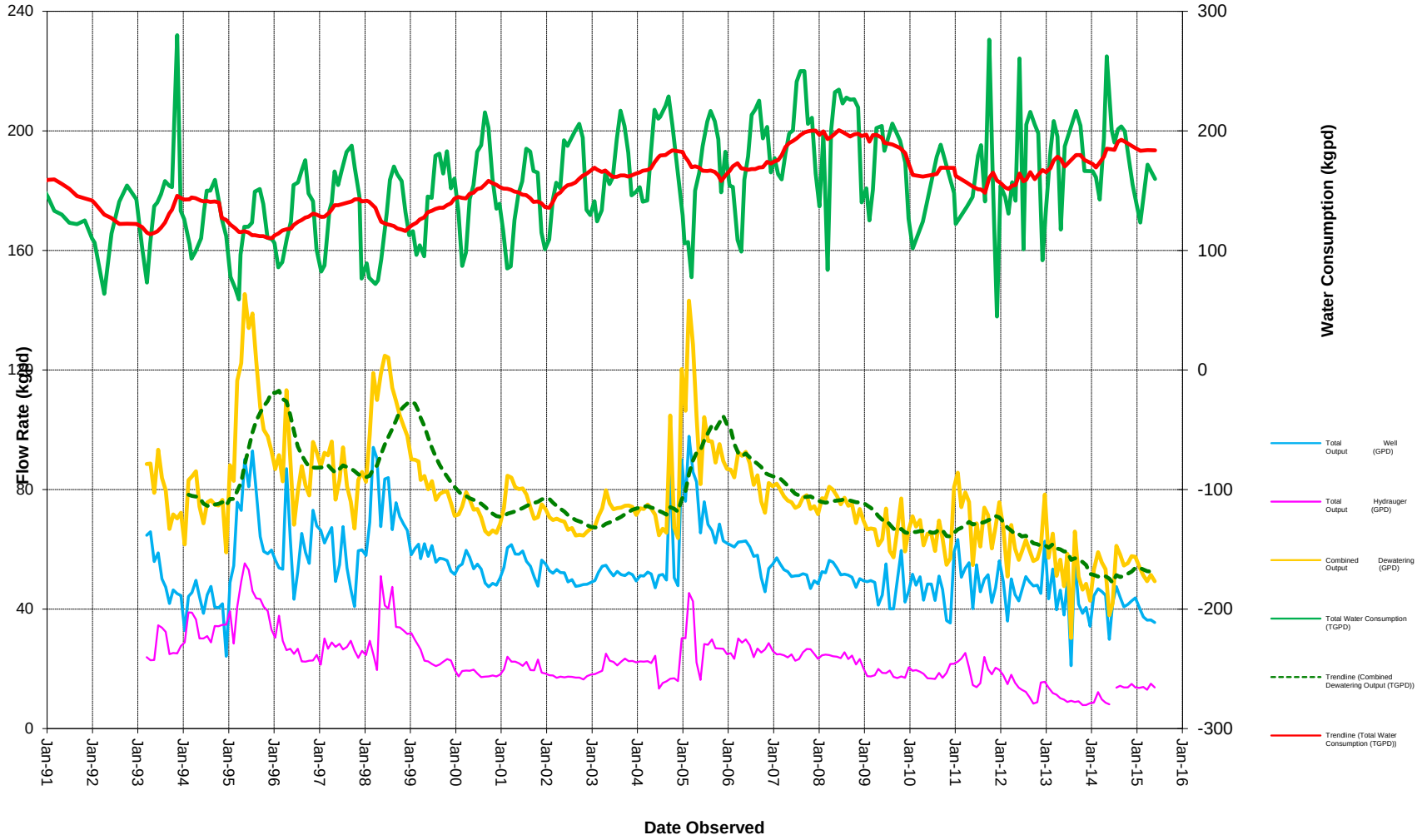
No.	DATE	DESCRIPTION	BY		No.	DATE	DESCRIPTION	BY
1								
2								
3								

DATE:	WORK ORDER:		PLATE NO.:
4/17/15	04.62140606		2
DRAWN BY:	CHECKED BY:	APPROVED BY:	
WBC	TC	CD	

S:\Projects\04_62140_4014_4000_City_of_Malibu_BigRockMesa\Active\2014_11_05_Annual\Report\MXD\Plate-02_BRL_EastingFaultMap.mxd, 4/15/2015, scoppins

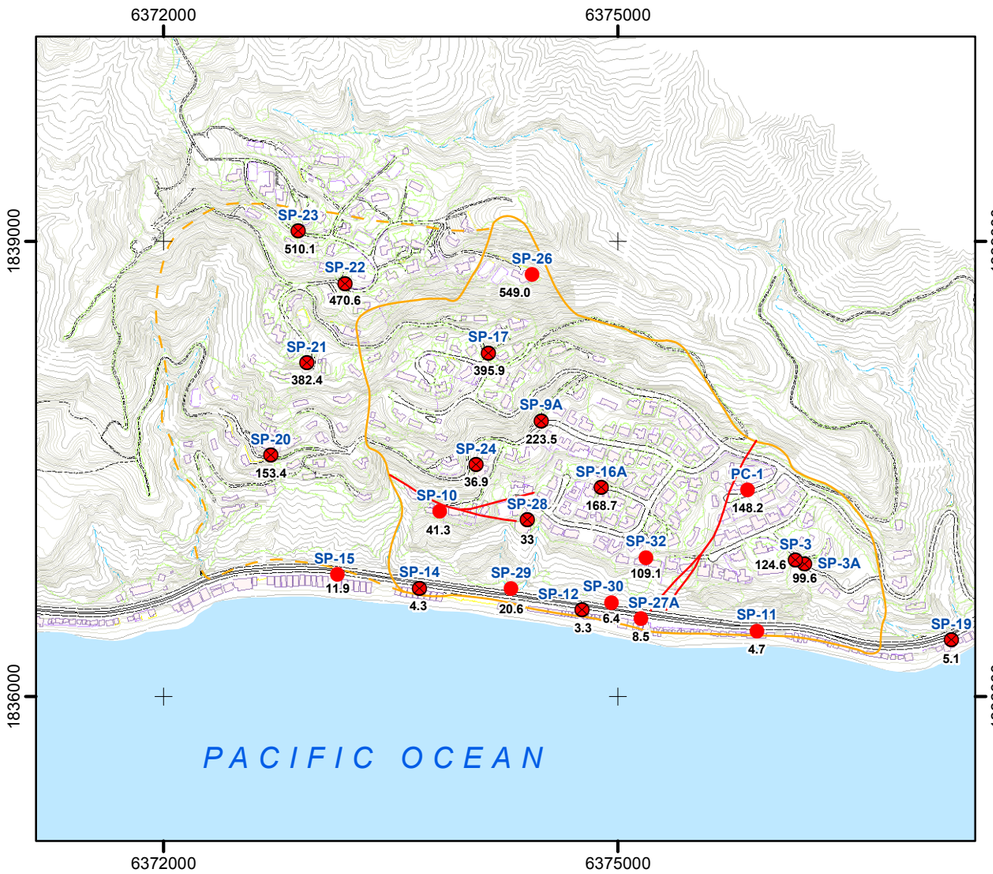


MALIBU AREA MONTHLY AND AVERAGE RAINFALL
Big Rock Mesa Landslide Assessment District
Malibu, California

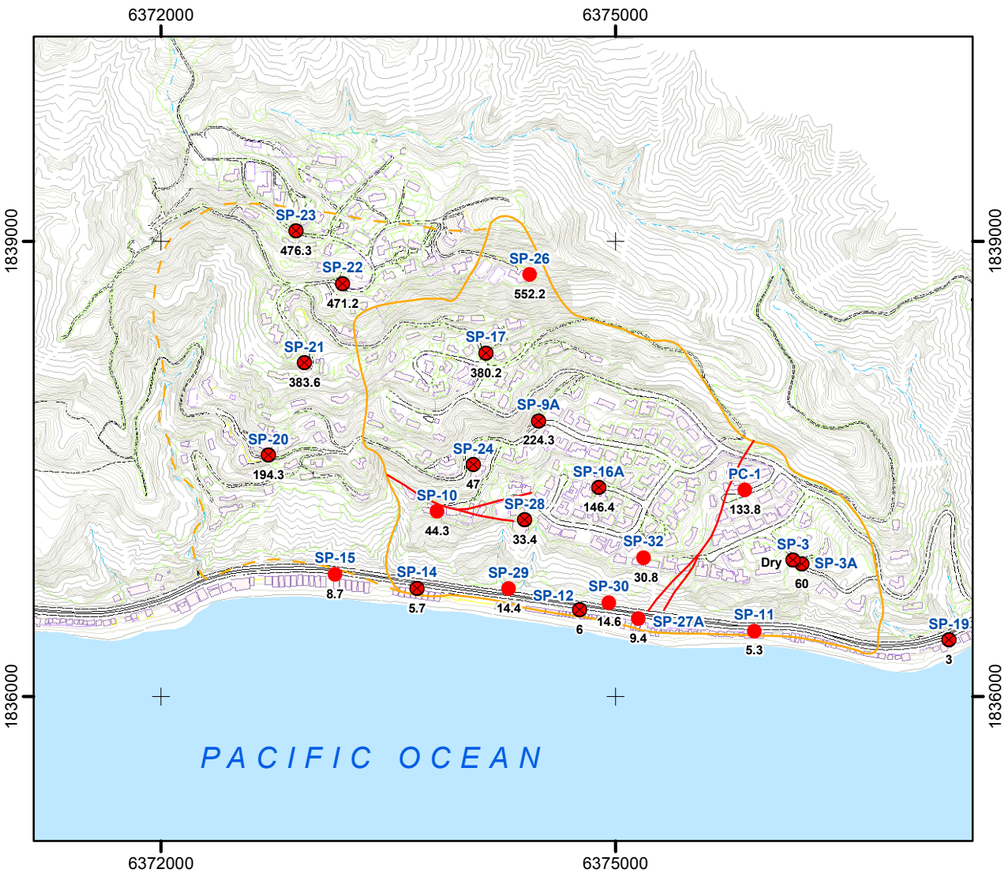


TOTAL DEWATERING RATE VS. TOTAL WATER CONSUMPTION
Wells & Hydraugers (Combined)/Total Water Consumption
Big Rock Mesa Landslide Assessment District
Malibu, California

Groundwater Elevation (May 8, 1995)



Groundwater Elevation (May 6, 2015)



Legend

Instrumentation

- Slope Inclinometer, does not Penetrate Rupture Surface
- Slope Inclinometer, does Penetrate Rupture Surface
- SP-16 / 400 — Instrument Label and Ground Water Elevation in feet

Site Map Features

- Faults
- Approximate Landslide Limits
- Buildings

N

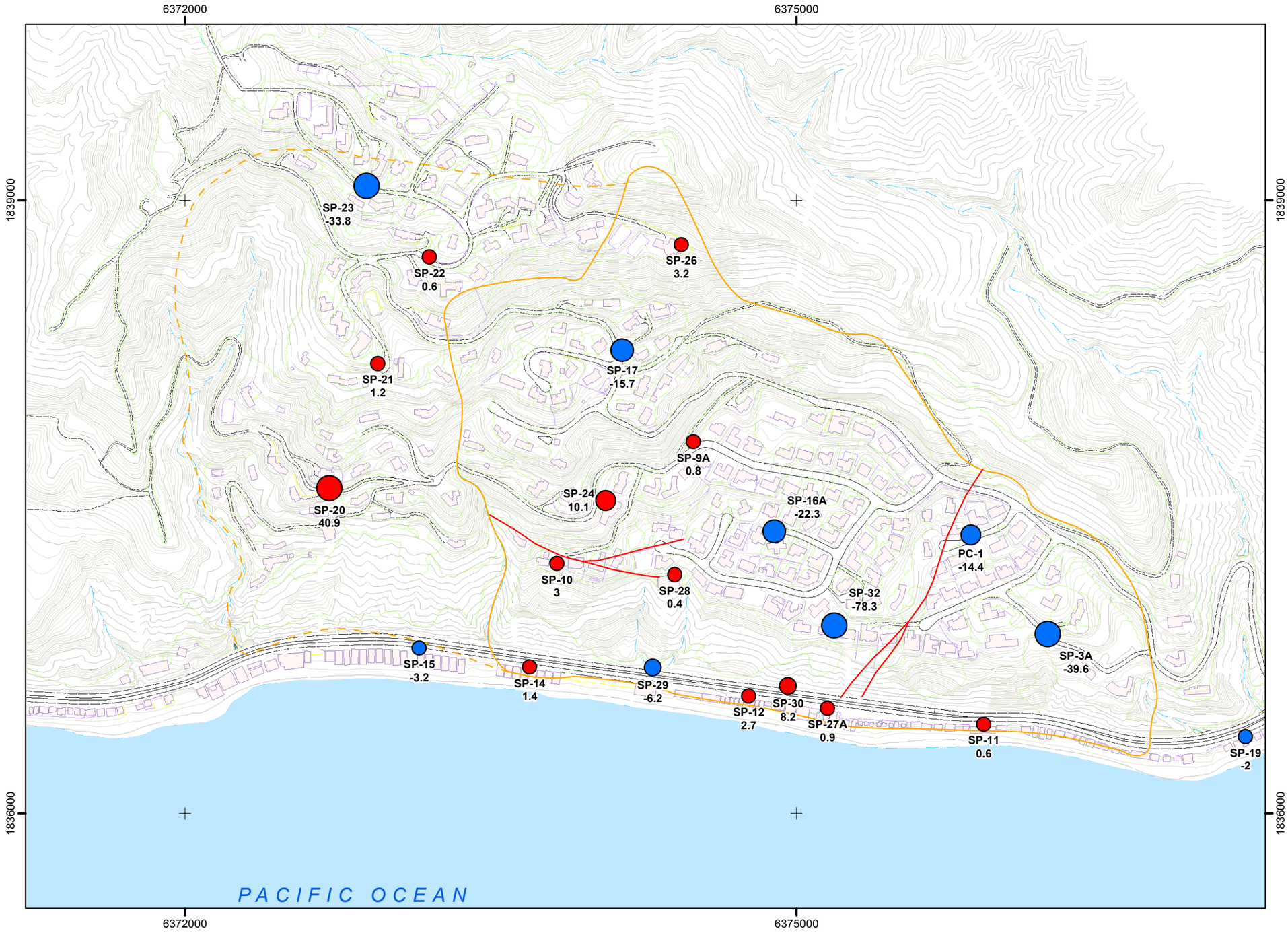
1:12,000

1,000 500 0 1,000 Feet

GROUNDWATER ELEVATION MAP
MAY 1995 AND MAY 2015
Big Rock Mesa Landslide
Assessment District
Malibu, California

PLATE 5a

N:\Projects\04_2014\04_6214_0606_City_of_Malibu_BigRockMesa\Outputs\2015_10_27_AnnualReport2015\mxd\Plate-05a_WaterLevel_95_15.mxd, 11/4/2015, cdean



Legend

Instrumentation

- Slope Inclinometer, does not Penetrate Rupture Surface
- Slope Inclinometer, does Penetrate Rupture Surface
- sp-16 / 400 — Instrument Label and Ground Water Elevation Change in feet

Site Map Features

- Faults
- Approximate Landslide Limits
- Buildings

Groundwater Elevation Change (Feet)

- < -30
- -30 to -15
- -15 to -10
- -10 to -5
- -5 to 0
- 0 to 5
- 5 to 10
- 10 to 15
- 15 to 20
- > 20

N

1:6,000

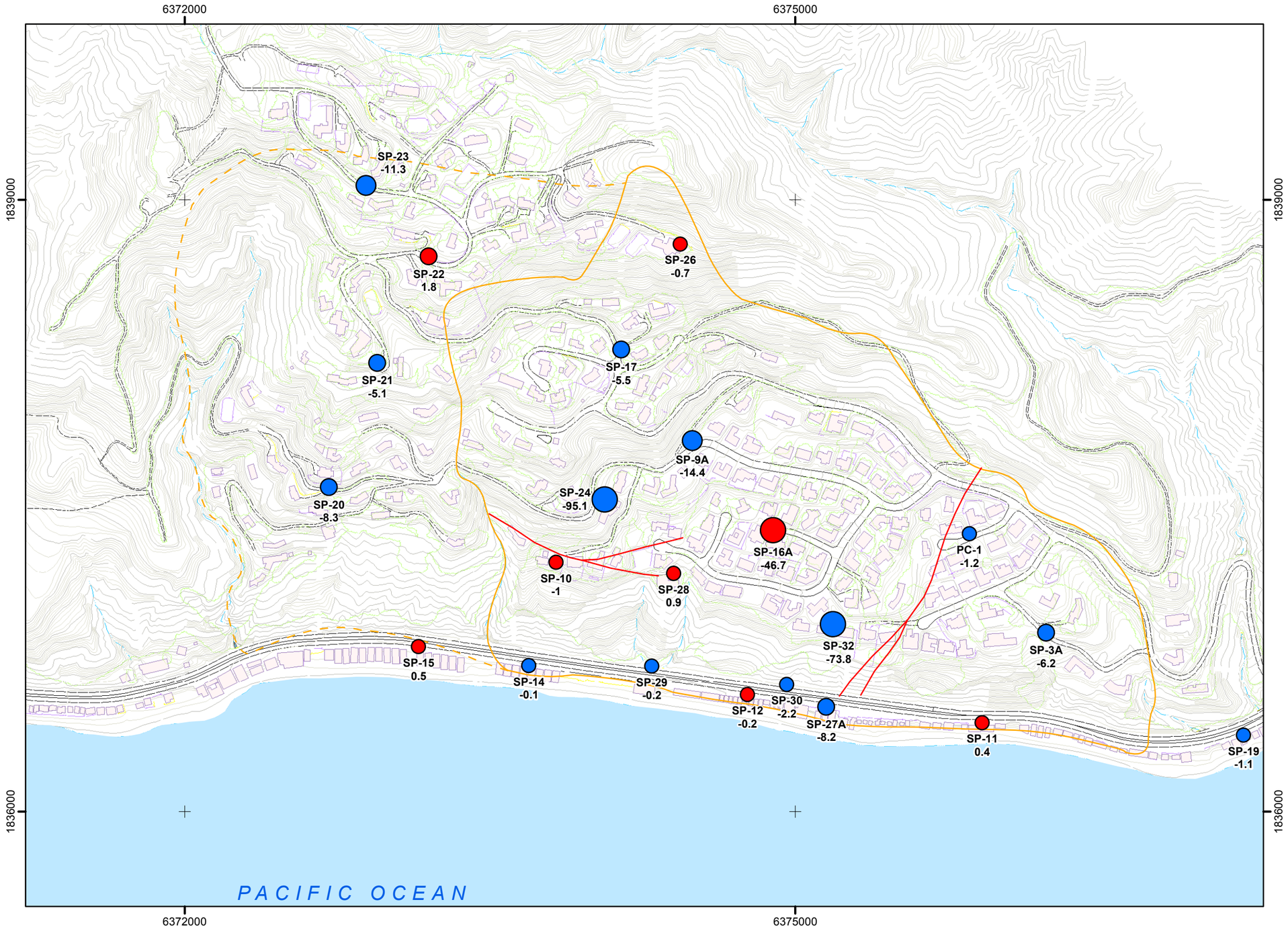
0 125 250 500 750 1,000 Feet

CHANGE IN GROUNDWATER ELEVATION MAY 1995 TO MAY2015

Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE 5b

N:\Projects\04_2014\04_6214_0606_City_of_Malibu_BigRockMesa\Outputs\2015_10_27_AnnualReport2015\mxd\Plate-05b_WaterLevelChange_95_15.mxd, 11/4/2015, cdean



Legend

Instrumentation

SP-16
400
Instrument Label and Ground Water Elevation Change in feet

Site Map Features

- Faults
- Approximate Landslide Limits
- Buildings

Groundwater Elevation Change (Feet)

- < -30
- -30 to -15
- -15 to -10
- -10 to -5
- -5 to 0
- 0 to 5
- 5 to 10
- 10 to 15
- 15 to 20
- > 20

N

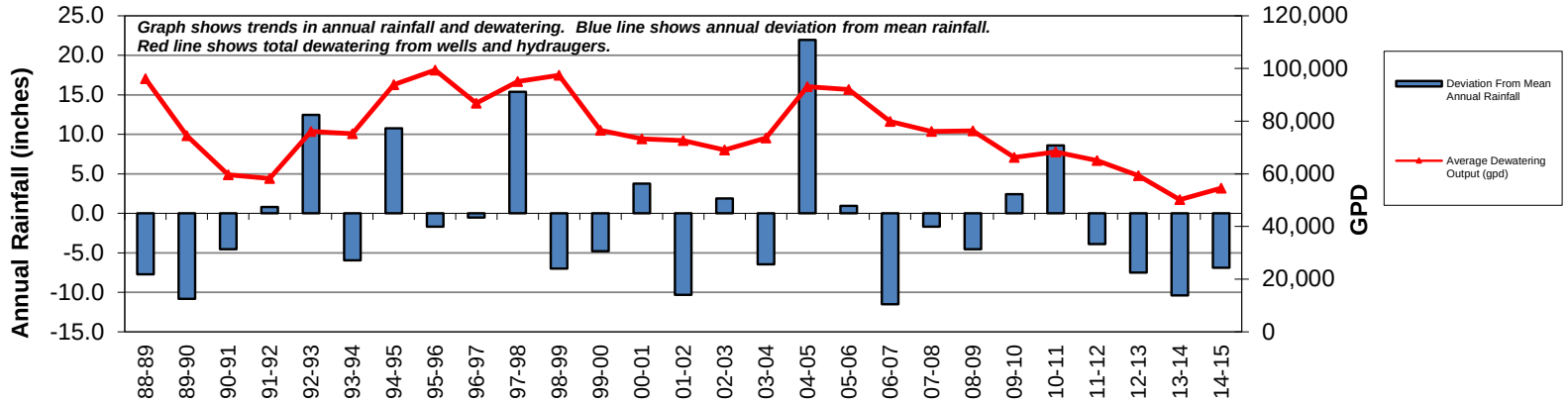
1:6,000

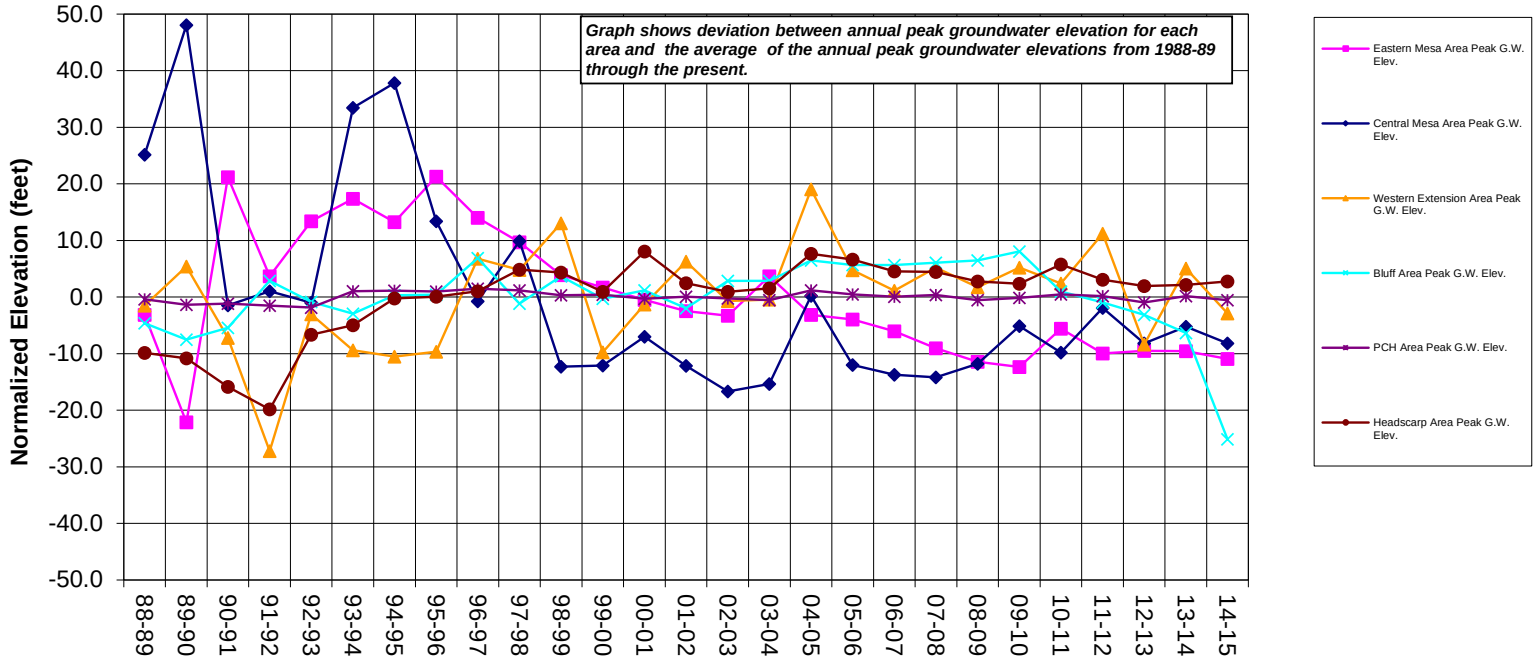
0 125 250 500 750 1,000 Feet

CHANGE IN GROUNDWATER ELEVATION MAY 2014 TO MAY 2015
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE 5c

N:\Projects\04_2014\04_6214_0606_City_of_Malibu_BigRockMesa\Outputs\2015_10_27_AnnualReport2015\mxd\Plate-05c_WaterLevelChange_14_15.mxd, 11/4/2015, cdean





SUMMARY OF GROUNDWATER LEVELS, DEWATERING, AND RAINFALL
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE 6

APPENDIX A
GROUNDWATER LEVEL DATA

Big Rock Mesa: Standpipe Piezometer Information				
Piezometer ID	**Surface Elev. (ft)**	**Depth (ft)**	**Perforation Interval**	**Installer**
PCH Standpipe Piezometers				
SP-11	27	58	Unknown	BYA
SP-12	26	40	Unknown	BYA
SP-14	25	30	Unknown	BYA
SP-15	20	82	Unknown	BYA
SP-19	25	82	Unknown	BYA
SP-27A	29	94	Unknown	BYA
SP-29	27	138	Unknown	BYA
SP-30	29	128	Unknown	BYA
Bluff Standpipe Piezometers				
SP-10	295	332	Unknown	BYA
SP-28	270	358	Unknown	BYA
SP-32	233	354	Unknown	BYA
SP-34	270	382	Unknown	BYA
Headscarp Piezometers				
SP-26	745	346	Unknown	BYA
Central Standpipe Piezometers				
SP-9A	365	300	Unknown	BYA
SP-16	285	240	Unknown	BYA
SP-16A	285	392	Unknown	BYA
SP-17	540	192	Unknown	BYA
SP-17A	540	238	Unknown	BYA
SP-24	370	382	Unknown	BYA
SP-35	345	396	Unknown	BYA
SP-36	380	254	Unknown	BYA
Western Standpipe Piezometers				
SP-20	430	326	Unknown	BYA
SP-21	660	280	Unknown	BYA
SP-22	780	332	Unknown	BYA
SP-23	860	398	Unknown	BYA
Eastern Standpipe Piezometers				
PC-1	250	158	Unknown	BYA
SP-3	212	132	Unknown	BYA
SP-3A	203	246	Unknown	BYA
SP-33[1]	208	374	Unknown	BYA

1 - Data not presented

PIEZOMETER INFORMATION - STANDPIPE PIEZOMETERS
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE A-1a

PNEUMATIC PIEZOMETER INFORMATION					
Piezometer ID	**Surface Elev. (ft)**	**Tip No.**	**TIP DEPTH (ft.)**	**INSTALL BY**	**STATUS**
W-10*	432	230	230	BYA	Malfunctioning
W-11*	507	214	214	BYA	Malfunctioning
W-15*	295	164	164	BYA	Malfunctioning
PC-1	250	TIP-1	120	BYA	Functioning, reported
		TIP-2	90		No data after 11/11/2011, above estimated water level
		TIP-3	70		No data after 06/03/2013, above estimated water level
		TIP-4	40		No data reported, above estimated water table,
		TIP-5	20		No data reported, above estimated water table
SP-5A*	NA	TIP-1		BYA	Non-functioning - Covered by asphalt pavement
		TIP-2	NA		
		TIP-3			
SP-8A*	NA	TIP-1		BYA	Non-functioning - Covered by landslide
		TIP-2	NA		
		TIP-3			
SP-17A	540	TIP-1	Unknown	BYA	Functioning, results questionable, data not presented
		TIP-2	Unknown		Functioning, results questionable, data not presented
		TIP-3	Unknown		Functioning, results questionable, data not presented
		TIP-4	Unknown		Functioning, results questionable, data not presented
		TIP-5	Unknown		Functioning, results questionable, data not presented
SP-34	270	TIP-1	381	BYA	Functioning, reported
		TIP-2	282		Suspect data after 12/02/2013 not reported
		TIP-3	182		No data reported, above estimated water level
		TIP-4	82		No data reported, above estimated water level
SP-35	345	TIP-1	393	BYA	Suspect data after 12/02/2013 not reported
		TIP-2	293		Functioning, reported
		TIP-3	193		No data reported, above estimated water level
		TIP-4	98		No data reported, above estimated water level
SP-36	380	TIP-1	255	BYA	Functioning, reorted
		TIP-2	195		Functioning, reported
		TIP-3	95		No data reported, above estimated water level
BYA-2*	665	TIP-1	Unknown	BYA	Malfunctioning
		TIP-2	Unknown		
		TIP-3	Unknown		
BYA-3A*	NA	TIP-1		BYA	Malfunctioning
		TIP-2			
		TIP-3	NA		
		TIP-4			
BYA-4A*	NA	TIP-1		BYA	Malfunctioning
		TIP-2			
		TIP-3	NA		
		TIP-4			
		TIP-5			
		TIP-6			
BYA-5A*	NA	TIP-1		BYA	Malfunctioning
		TIP-2	NA		
		TIP-3			
		TIP-4			
GEO-2 (OB-2)*	305	TIP-1		GS	Malfunctioning
		TIP-2	NA		
		TIP-3			
GEO-1*	NA	TIP-1		GS	Restricted Access (possibly malfunctioning)
		TIP-2	NA		
		TIP-3			

NOTE: * Not functioning or no longer monitored peizometer
Additional data for standpipe peizometers is presented in Appendix D, PLATE D-1

PIEZOMETER INFORMATION - PNEUMATIC PIEZOMETERS
Big Rock Mesa Landslide Assessment District
Malibu, California

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	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	**2014-2015**	Highest Recorded	Mean '91 - '15	Stand Dev.	'14-'15 vs '97-'98	'14-'15 vs '13-'14	'14-'15 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	5.1	8.4	7.8	4.7	4.8	5.0	Feb-11	*5.5*	*0.9*	*-0.8*	*0.2*	*-0.5*
	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	5.6	11.8	8.8	5.0	5.1	5.9	11.8	*6.7*	*1.5*	*-1.4*	*0.8*	*-0.8*
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	4.0	4.7	4.2	5.2	5.2	5.2	Feb-05	*4.9*	*0.4*	*0.1*	*-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	5.1	5.3	5.2	5.5	5.8	6.2	8.30	*6.3*	*0.8*	*-0.8*	*0.4*	*-0.2*
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	4.3	4.3	4.1	5.2	5.6	4.5	Feb-98	*4.8*	*0.5*	*-1.4*	*-1.1*	*-0.3*
	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	5.0	4.6	4.9	5.5	5.5	5.7	8.7	*5.8*	*0.9*	*-3.0*	*0.2*	*-0.1*
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	8.4	7.2	7.6	5.5	5.7	8.6	Jan-97	*10.5*	*2.6*	*-3.5*	*2.9*	*-1.9*
	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	12.2	10.1	10.2	5.9	6.2	12.0	20.0	*12.9*	*3.8*	*-4.3*	*5.8*	*-0.9*
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	3.6	3.7	3.6	3.0	3.6	3.4	Mar-95	*3.8*	*0.5*	*-1.0*	*-0.2*	*-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	4.6	4.0	4.3	3.3	4.2	4.1	5.9	*4.4*	*0.6*	*-1.1*	*-0.1*	*-0.3*
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	10.0	10.0	9.7	10.5	17.1	9.7	Jun-15	*9.9*	*1.6*	*0.0*	*-7.4*	*-0.2*
	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	10.6	10.5	10.5	10.8	17.8	10.0	17.8	*11.1*	*1.9*	*-0.7*	*-7.7*	*-1.0*
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	15.9	16.2	15.8	16.7	15.7	14.4	Feb-05	*17.4*	*1.6*	*-5.3*	*-1.3*	*-2.9*
	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	16.6	16.9	17.1	16.9	16.8	14.7	22.2	*18.4*	*2.1*	*-6.6*	*-2.1*	*-3.7*
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	15.7	16.2	15.8	16.5	16.8	13.6	Nov-10	*11.8*	*3.3*	*5.6*	*-3.2*	*1.8*
	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	16.4	17.2	17.0	16.8	17.1	14.6	17.2	*13.0*	*3.1*	*4.4*	*-2.5*	*1.6*
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	8.4	8.8	8.6	8.4	9.3	8.1		*8.6*	*0.5*	*-0.8*	*-1.3*	*-0.5*
	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	9.5	10.1	9.8	8.7	9.8	9.1		*9.8*	*0.8*	*-1.7*	*-0.7*	*-0.6*
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	0.2	0.4	-0.3	-0.1	0.9	-1.3						
	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	0.5	0.5	-0.3	-1.0	1.1	-0.7						
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	44.0	43.9	42.6	43.7	43.5	43.9	Dec-83	*43.4*	*2.7*	*2.6*	*0.4*	*0.5*
	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	44.6	46.0	44.7	44.1	44.0	44.3	174.2	*44.3*	*6.2*	*2.7*	*0.3*	*0.0*
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	33.1	32.8	35.2	32.8	32.8	33.4	Jan-12	*33.2*	*0.8*	*1.5*	*0.6*	*0.1*
	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	33.4	33.8	42.0	33.7	33.6	33.4	42.0	*34.2*	*2.0*	*1.2*	*-0.1*	*-0.7*
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	105.1	102.3	104.8	106.4	105.6	35.0	Apr-96	*91.5*	*15.9*	*-41.6*	*-70.7*	*-56.5*
	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	105.8	105.9	106.9	106.9	107.1	41.3	130.9	*101.6*	*15.9*	*-66.1*	*-65.8*	*-60.3*
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	88.6	53.2	44.7	37.1	35.9	24.7	Nov-09	*67.6*	*20.1*	*24.7*	*-11.3*	*-42.9*
	Highest El.																85.9	79.5	77.3	77.7	74.4	74.5	82.1	81.4	83.8	86.1	88.0	94.5	64.5	48.8	48.7	36.2	26.7	94.5	*71.2*	*19.5*	*26.7*	*-9.5*	*-44.5*
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	67.7	58.0	56.8	55.0	54.5	34.2		*58.0*	*7.0*	*-15.7*	*-20.2*	*-23.7*
	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	69.6	62.5	60.6	58.4	55.2	36.4		*62.3*	*6.8*	*-24.0*	*-18.8*	*-25.8*
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	0.9	-9.6	-1.2	-1.8	-0.5	-20.2						
	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	1.6	-7.0	-2.0	-2.2	-3.1	-18.8						
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	551.2	552.5	551.9	551.0	551.4	552.1	Apr-01	*548.6*	*6.6*	*1.6*	*0.6*	*-0.4*
	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	552.2	555.6	552.9	551.8	552.0	552.6	557.9	*551.3*	*5.8*	*-2.7*	*0.6*	*-0.2*
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	-0.2	1.4	-0.6	-0.9	0.4	0.6						
	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	-0.4	3.4	-2.8	-1.1	0.2	0.6						

GROUNDWATER ELEVATION DATA ANALYSIS

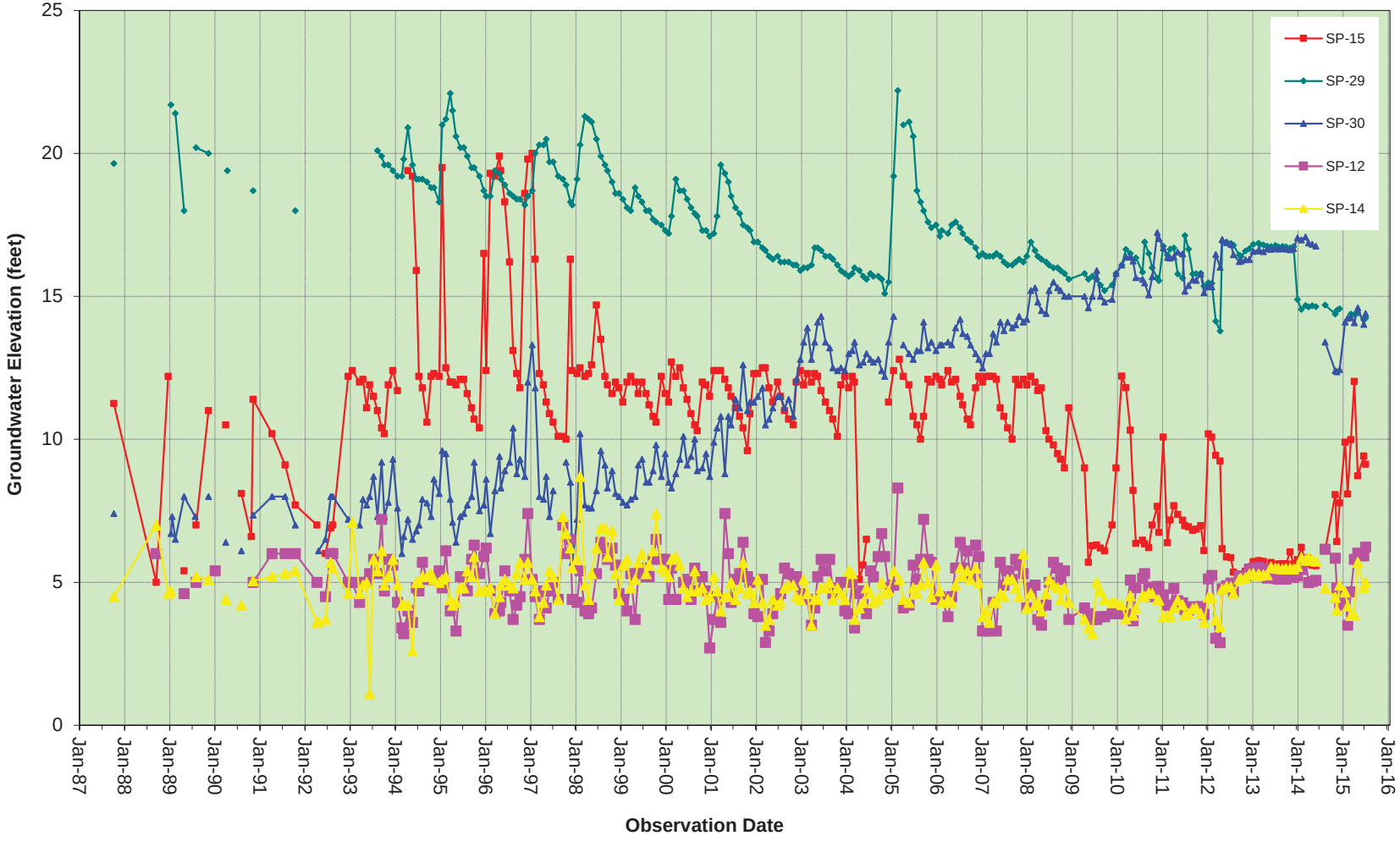
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE A-2a

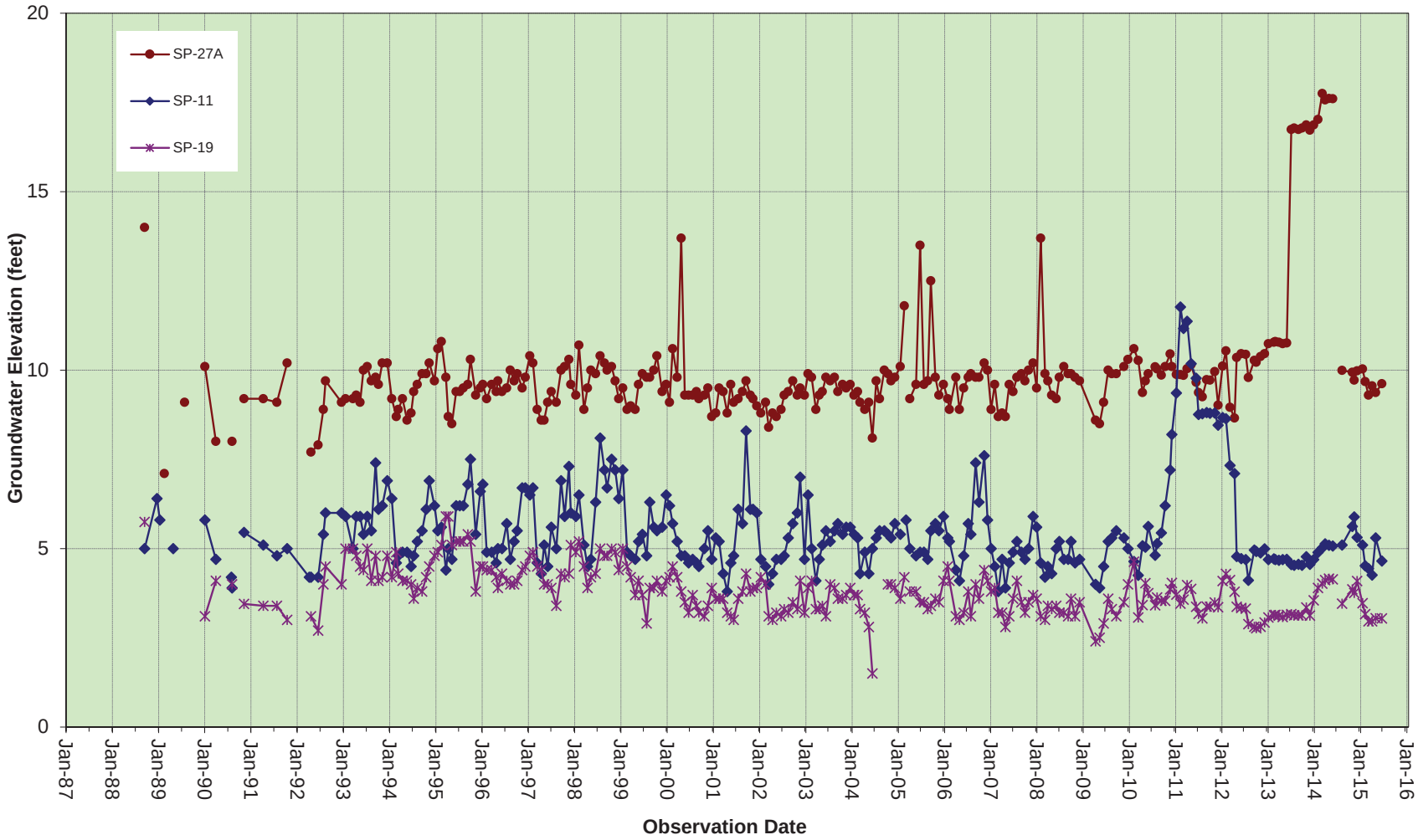
Piezometer I.D.		1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	**2014-2015**	Highest Recorded	Mean '91 - '15	Stand Dev.	'14-'15 vs '97-'98	'14-'15 vs '13-'14	'14-'15 vs mean
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	227.7	226.6	230.6	230.6	238.6	224.9	Dec-83	*226.9*	*4.5*	*14.1*	*-13.8*	*-2.0*
	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	229.2	227.5	238.6	238.6	238.9	225.7	270.0	*230.1*	*4.2*	*7.8*	*-13.2*	*-4.5*
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	107.8	117.4	81.8	63.3	56.9	92.6	Mar-84	*63.2*	*22.6*	*9.0*	*35.7*	*29.4*
	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	121.3	121.1	120.5	75.4	58.2	117.5	226.5	*82.7*	*29.3*	*-8.3*	*59.3*	*34.8*
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	166.3	136.0	106.3	149.4	130.0	128.9	Jan-05	*143.8*	*25.6*	*4.1*	*-1.1*	*-14.9*
	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	183.1	153.7	131.9	149.7	149.6	169.8	196.2	*172.8*	*18.9*	*-35.9*	*20.2*	*-3.0*
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	386.1	387.5	385.4	386.0	385.9	381.1	Jan-84	*388.0*	*3.2*	*-7.7*	*-4.7*	*-6.8*
	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	397.0	393.0	388.0	386.1	386.8	382.0	410.0	*394.1*	*7.1*	*-22.0*	*-4.8*	*-12.1*
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	372.8	373.4	374.6	376.5	375.2	369.7	Feb-94	*376.3*	*2.5*	*-3.9*	*-5.5*	*-6.6*
	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	373.7	375.0	376.2	377.0	376.8	370.6	389.8	*379.4*	*4.7*	*-9.9*	*-6.2*	*-8.8*
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	47.0	46.7	43.0	36.8	87.9	47.8	Mar-84	*44.3*	*10.1*	*47.9*	*-40.0*	*3.5*
	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	49.0	47.5	45.1	38.9	142.6	50.0	220.6	*48.1*	*20.5*	*100.6*	*-92.5*	*2.0*
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	89.4	88.1	104.1	94.8	94.1	100.1	Jul-11	*91.7*	*5.1*		*6.0*	*8.4*
	Highest El.																101.3	91.0	104.0	102.9	92.7	90.6	95.2	89.0	87.2	86.4	90.2	95.8	94.1	112.9	96.9	94.7	109.7	112.9	*96.2*	*7.6*		*15.0*	*13.5*
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	190.4	190.6	201.3	196.5	191.2	190.7	Jun-12	*192.3*	*2.8*		*-0.4*	*-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	191.4	191.3	253.0	253.1	192.2	190.8	253.1	*199.2*	*20.3*		*-1.3*	*-8.4*
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	198.4	195.8	190.9	191.7	195.0	192.0		*197.1*	*12.5*	*-6.9*	*-3.0*	*-5.1*
	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	205.1	200.4	208.3	202.0	205.0	202.0		*207.2*	*14.1*	*-15.1*	*-3.0*	*-5.2*
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	6.3	-2.7	-4.9	0.8	3.2	-3.0						
	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	6.6	-4.7	7.9	-6.3	3.0	-3.0						
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	215.9	214.3	202.2	151.2	177.1	198.3	Feb-84	*193.7*	*27.6*	*32.8*	*21.2*	*4.6*
	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	234.4	226.0	219.0	151.4	203.7	219.4	350.0	*215.5*	*33.1*	*-5.3*	*15.8*	*3.9*
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	385.8	386.3	392.3	389.7	389.2	381.8	Apr-94	*379.1*	*12.5*	*9.4*	*-7.5*	*2.6*
	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	392.5	394.7	395.0	389.9	389.9	383.6	450.9	*387.0*	*13.3*	*-12.9*	*-6.3*	*-3.5*
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	470.0	470.7	466.9	464.8	465.1	473.1	Dec-96	*466.8*	*5.2*	*7.1*	*7.9*	*6.3*
	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	470.9	472.8	470.6	465.1	466.8	477.5	501.5	*472.4*	*7.0*	*7.1*	*10.8*	*5.1*
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	503.6	495.4	511.1	550.8	519.2	479.0	May-12	*497.6*	*16.4*	*-21.4*	*-40.1*	*-18.6*
	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	514.0	506.7	551.1	551.0	550.4	498.7	551.1	*516.8*	*21.2*	*-19.7*	*-51.7*	*-18.1*
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	393.9	391.7	393.1	389.1	387.7	383.0		*384.3*	*9.5*	*7.0*	*-4.6*	*-1.2*
	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	402.9	400.1	408.9	389.3	402.7	394.8		*397.9*	*9.5*	*-7.7*	*-7.9*	*-3.2*
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	0.7	-2.2	1.4	-4.0	-1.5	-4.6						
	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	3.5	-2.9	8.9	-19.6	13.3	-7.9						
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	138.9	139.1	137.4	134.8	134.8	134.7	Dec-96	*139.3*	*3.6*	*-4.8*	*-0.2*	*-4.7*
	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	140.4	140.0	140.2	135.2	135.1	135.4	190.0	*143.1*	*11.7*	*-18.1*	*0.3*	*-7.7*
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	87.0	87.7	108.6	103.6	104.6	DRY	Nov-83		*10.3*			
	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	91.7	91.0	113.2	103.8	105.9	DRY	126.1		*9.4*			
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	64.7	64.1	67.0	64.7	66.5	57.6	Apr-85	*76.9*	*12.8*	*-38.4*	*-8.9*	*-19.3*
	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	66.8	65.1	69.8	66.9	66.9	65.5	105.0	*81.6*	*14.2*	*-38.1*	*-1.4*	*-16.1*
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	67.4	66.9	64.9	66.7	66.3	70.6	May-92	*83.0*	*21.1*	*-18.1*	*4.3*	*-12.3*
	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	67.9	67.1	67.0	66.9	66.6	75.7	156.7	*85.7*	*23.7*	*-15.2*	*9.1*	*-10.0*
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	89.5	89.4	94.5	92.5	93.1	87.6		*101.6*	*8.7*	*-23.2*	*-5.4*	*-14.0*
	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	91.7	90.8	97.5	93.2	93.6	92.2		*105.1*	*10.6*	*-25.0*	*-1.4*	*-12.9*
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	-1.6	-0.1	5.0	-2.0	0.6	-5.4						
	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	-2.4	-0.9	6.7	-4.3	0.4	83.9						

GROUNDWATER ELEVATION DATA ANALYSIS
Big Rock Mesa Landslide Assessment District
Malibu, California

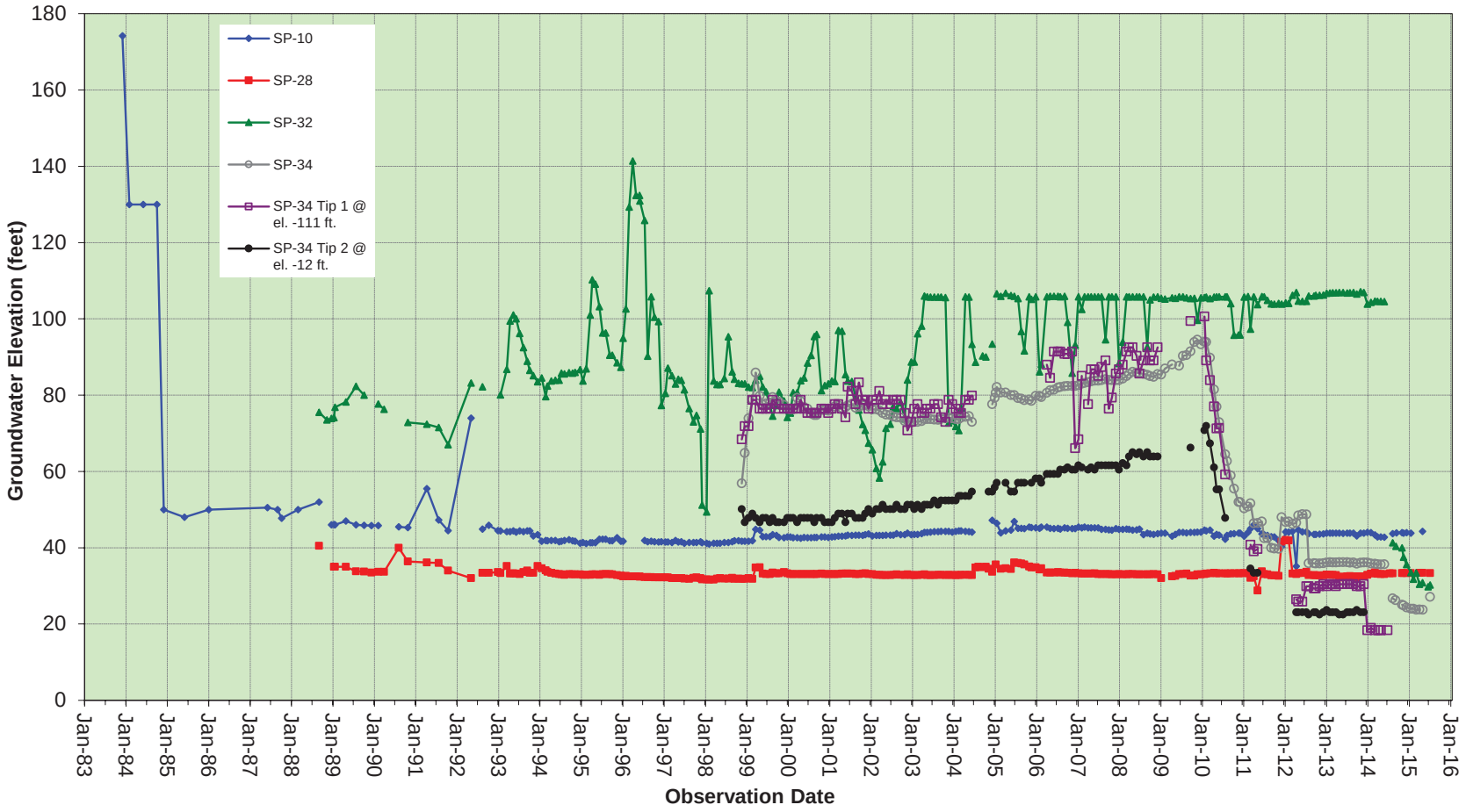
PLATE A-2b



GROUNDWATER ELEVATION DATA
Pacific Coast Highway (Western Half)
Big Rock Mesa Landslide Assessment District
Malibu, California

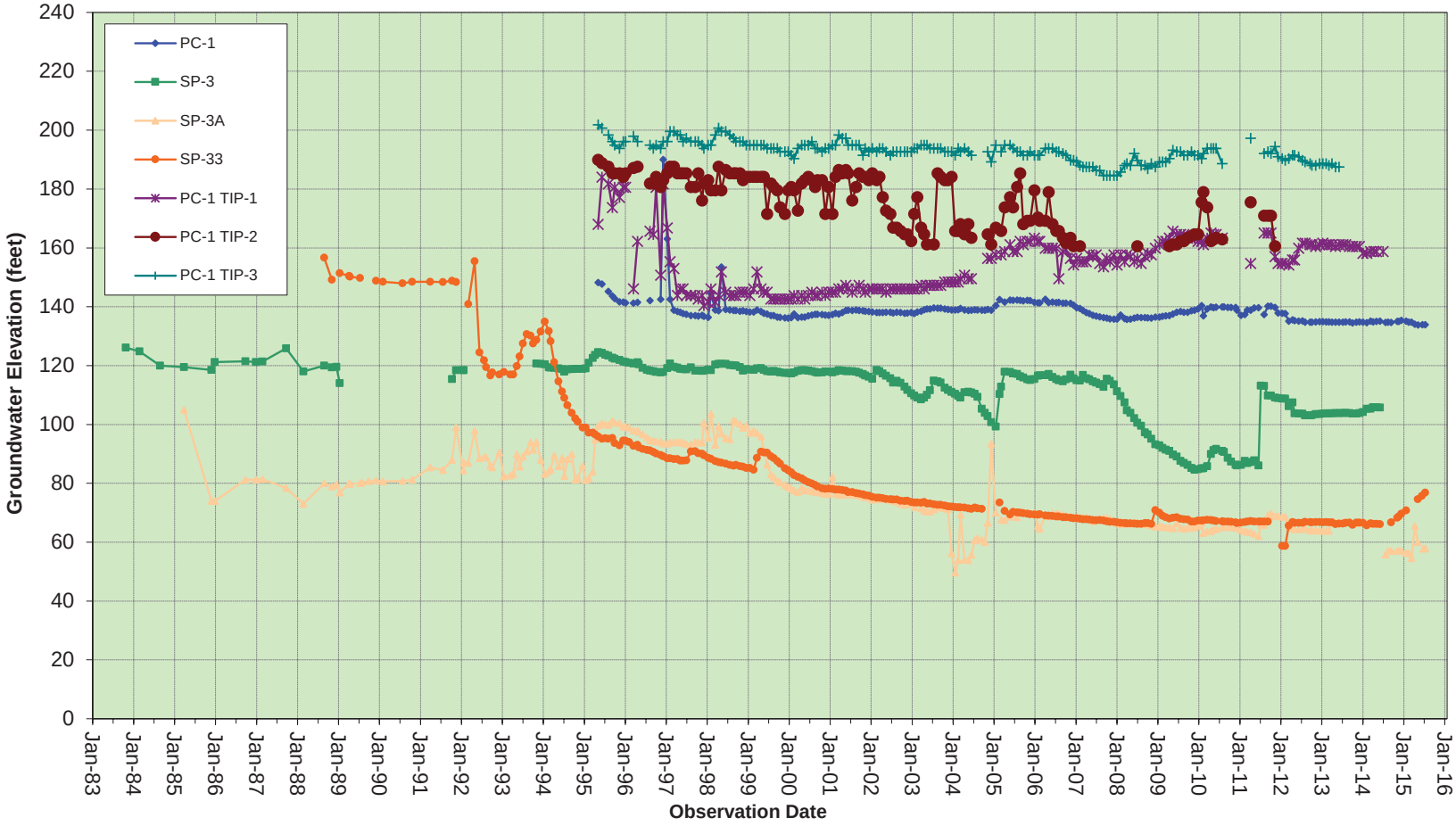


GROUNDWATER ELEVATION DATA
Pacific Coast Highway (Eastern Half)
Big Rock Mesa Landslide Assessment District
Malibu, California



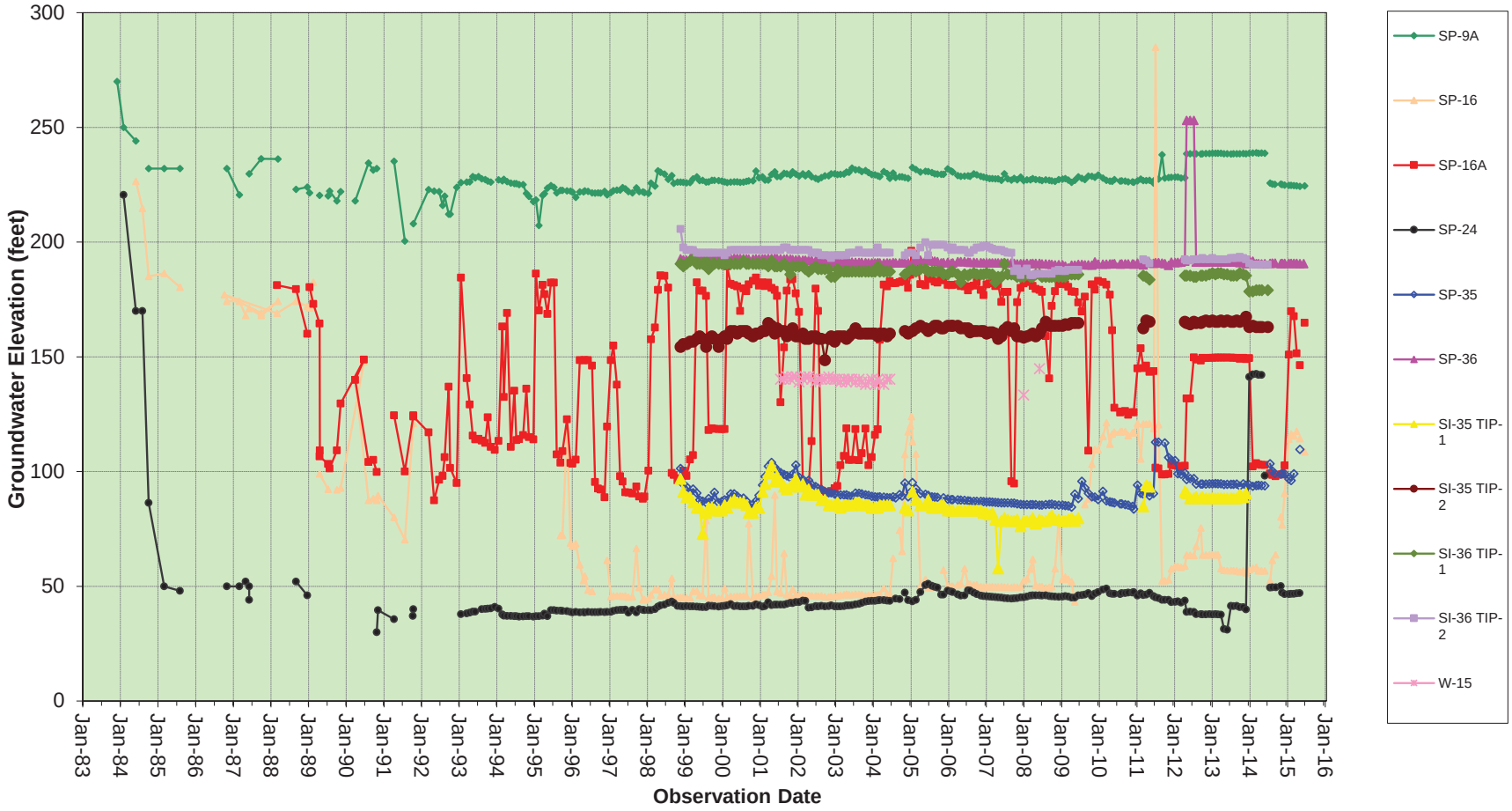
GROUNDWATER ELEVATION DATA
Bluff Region
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE A-4



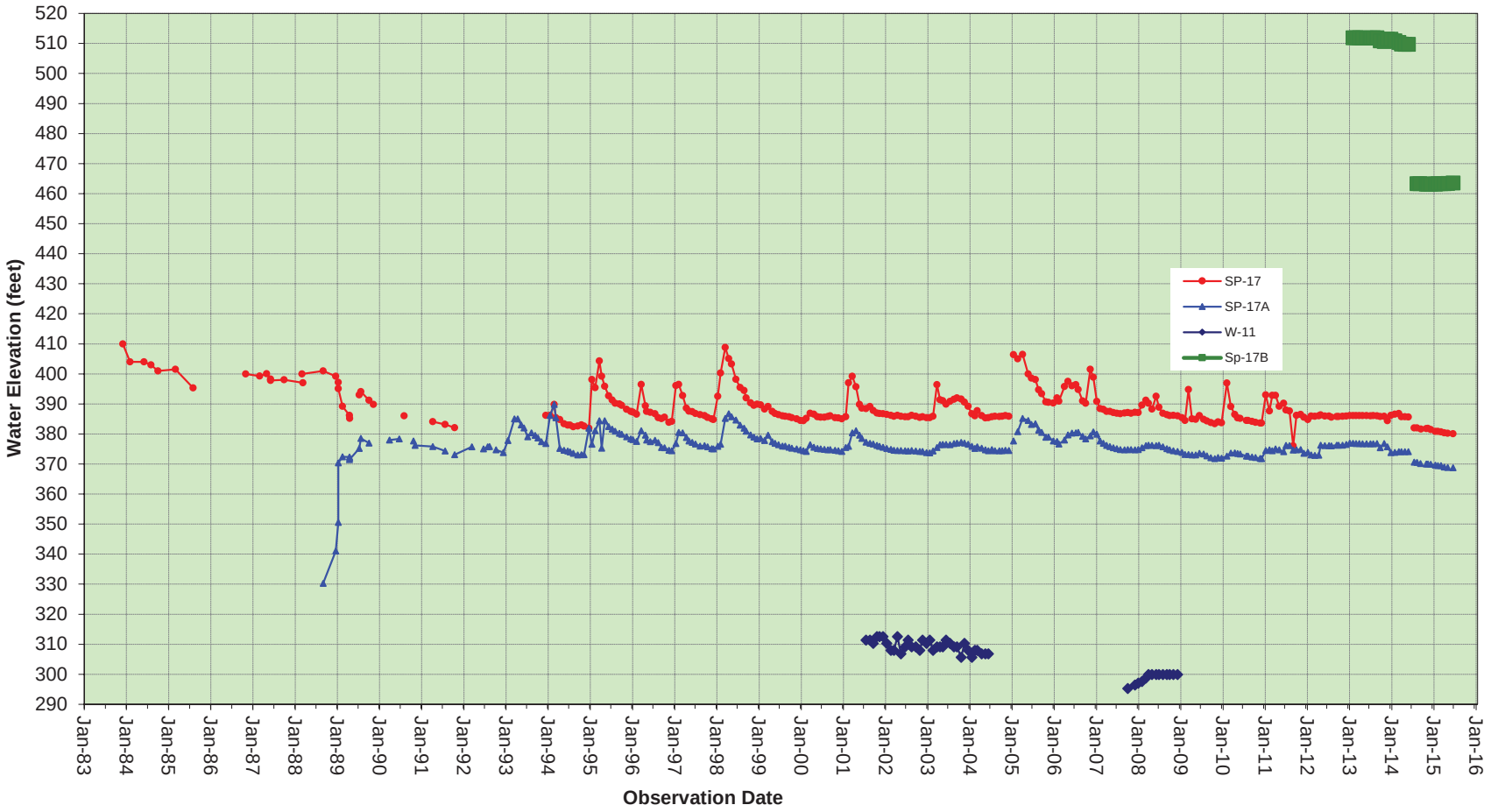
GROUNDWATER ELEVATION DATA
Eastern Mesa Region
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE A-5



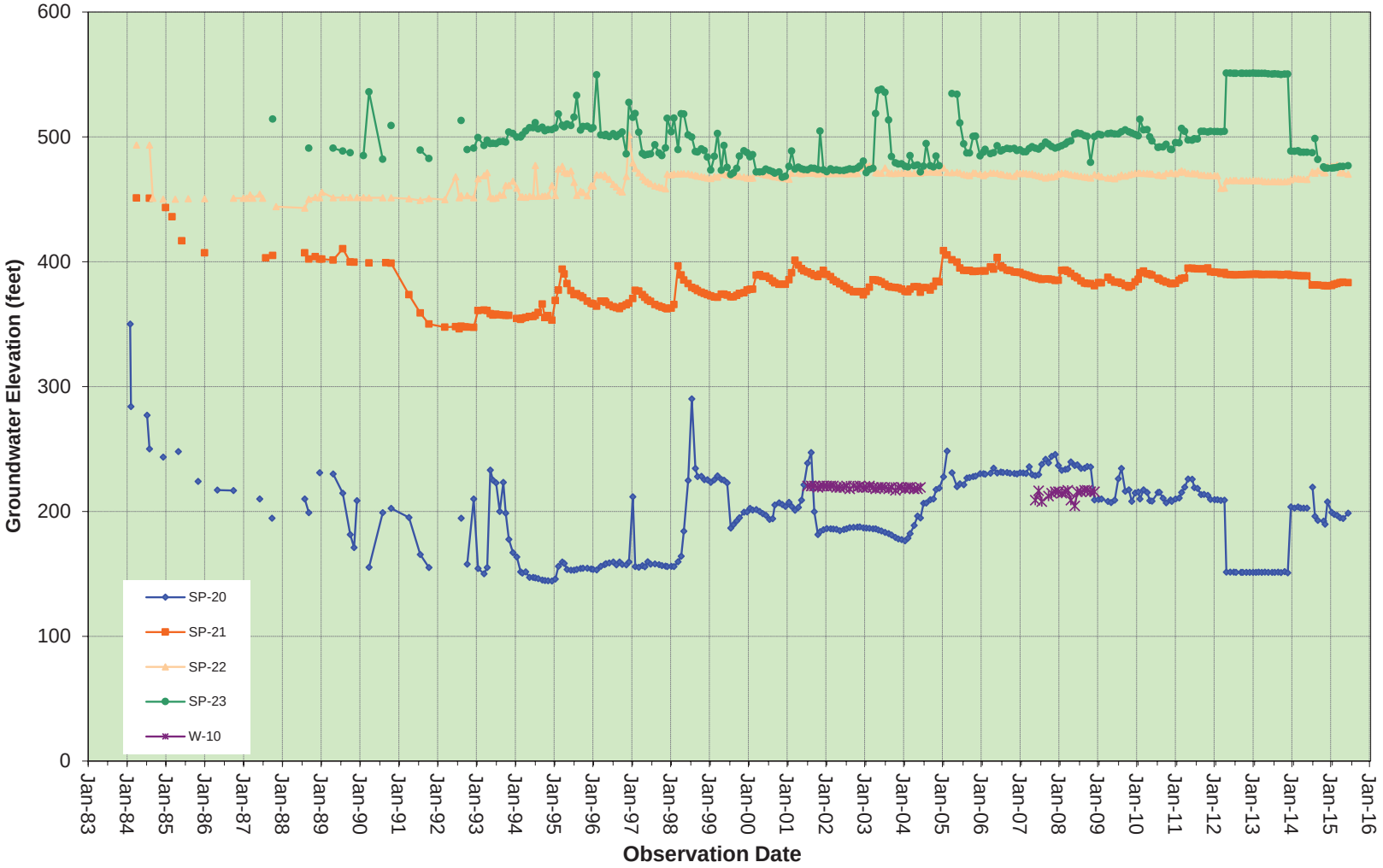
GROUNDWATER ELEVATION DATA
Central Mesa Region
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE A-6a

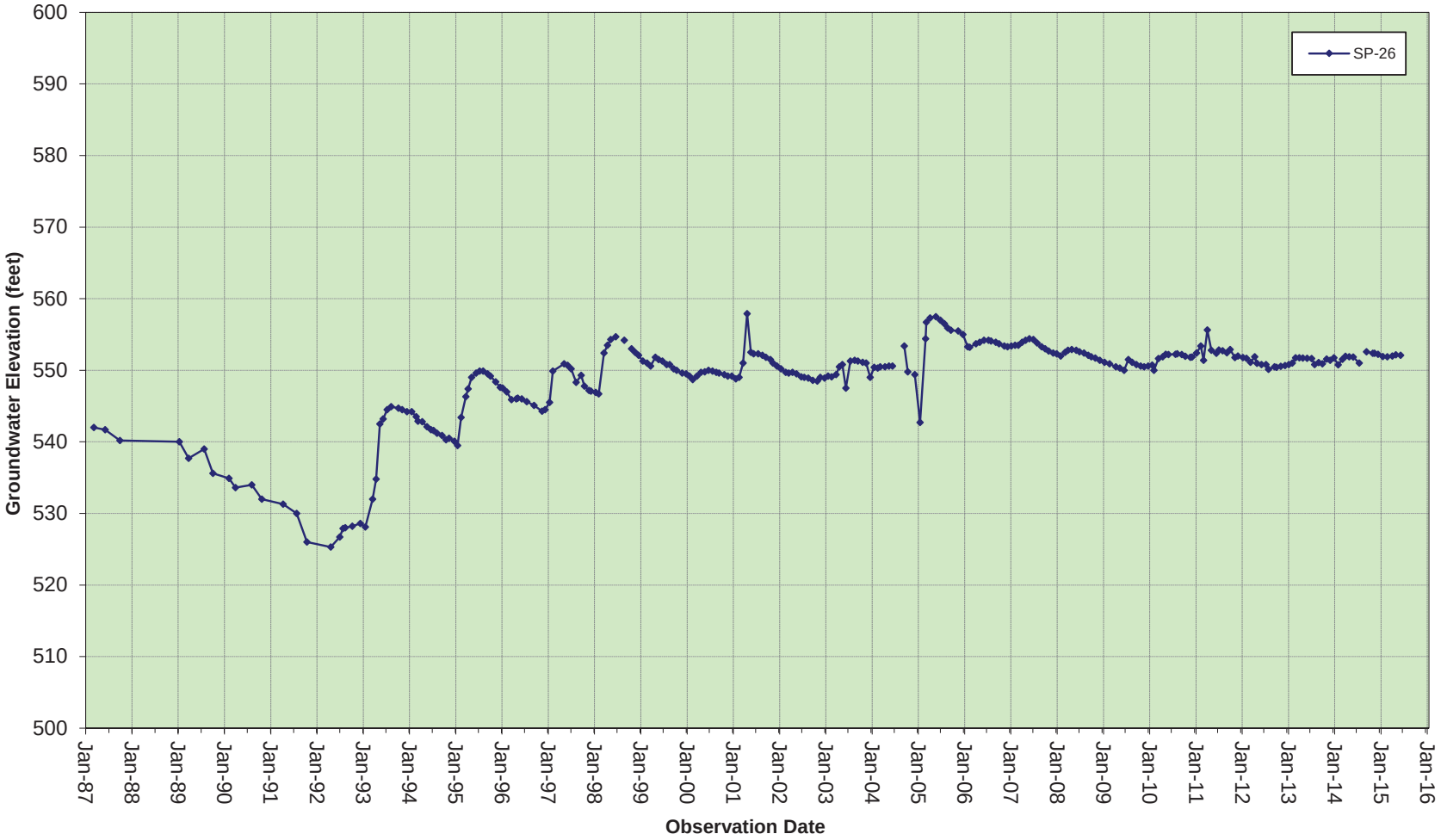


GROUNDWATER ELEVATION DATA
Central Mesa Region
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE A-6b



GROUNDWATER ELEVATION DATA
Western Extension
Big Rock Mesa Landslide Assessment District
Malibu, California



GROUNDWATER ELEVATION DATA
Headscarp Area
Big Rock Mesa Landslide Assessment District
Malibu, California

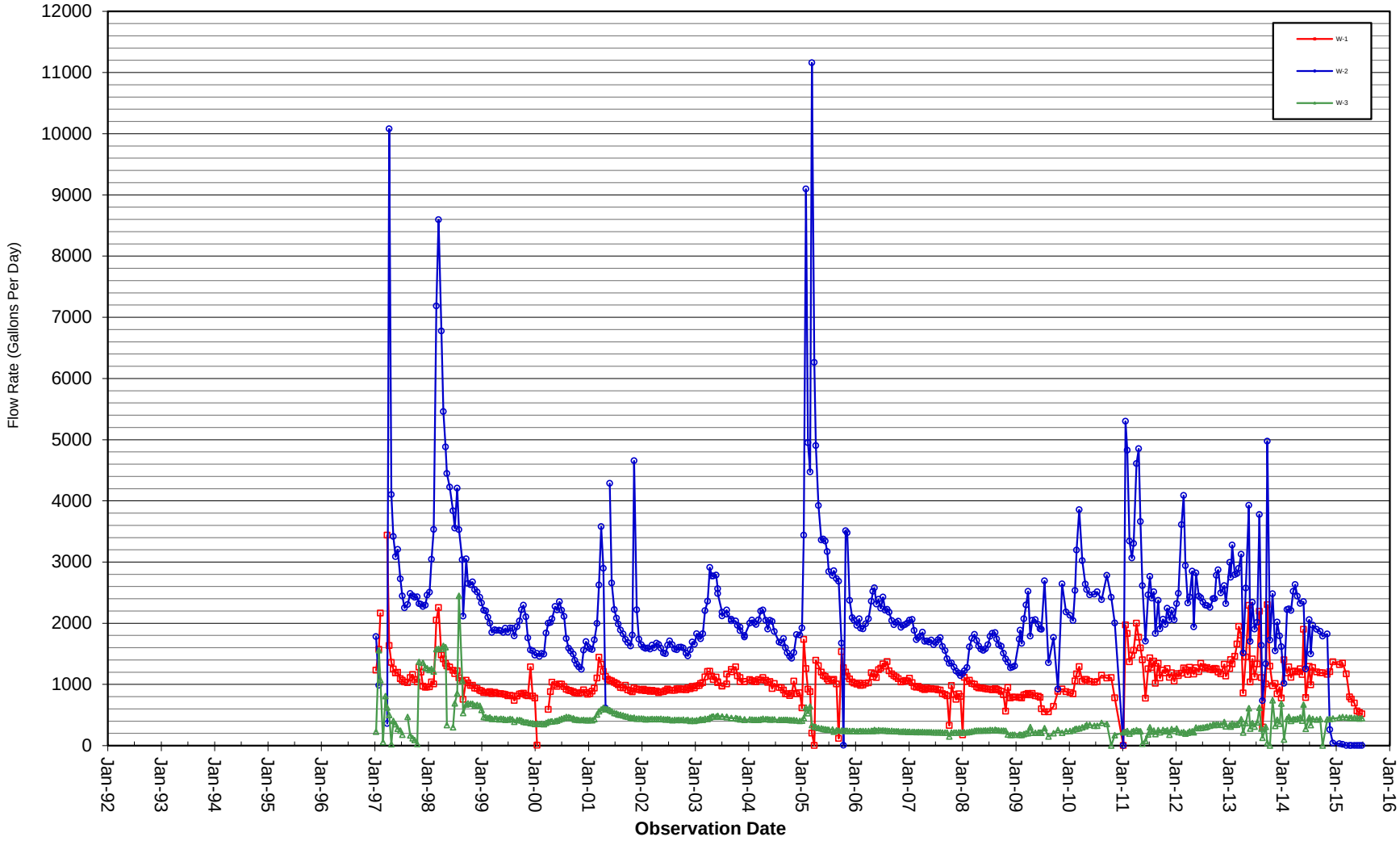
APPENDIX B
DEWATERING WELL DATA

SUMMARY OF DEWATERING WELL INFORMATION										
Well I.D.	DATE COMPLETED (DA Evans 1986)	TOP ELEV. (ft.)	BOTTOM ELEV. (ft.)	PUMP ELEV. (ft.)	PUMP SIZE (HP)	2013-14 PUMPING RATE (GPD)	% of TOTAL PRODUCTION	Rank	Drainage Port	COMMENT
W-1	1977	210.5	-30	14.5	1.5	1,395	3%	11	3	Producing
W-2	1955	219	41	44	1.5	2,590	5%	7	3	Producing
W-3	1973	243.5	65.5	70.5	3/4	359	1%	22	3	Producing
W-4	1973	248	-10	N/A	N/A	0	0%	24	N/A	Non-producing, casing perforations closed due to siltation (BYA 1991)
W-5	1984	280	252	N/A	N/A	0	0%	24	N/A	Capped 4/4/84 (DA Evans 1986)
W-6	1983	174	80	N/A	N/A	0	0%	24	N/A	Non-producing, static water level at bottom of casing (BYA 1991)
W-7	1983	257	171	N/A	N/A	0	0%	24	N/A	Non-producing, static water level at bottom of casing (BYA 1991)
W-8	1983	287	93	98	1	6,021	13%	2	4	Producing
W-9	1983	282	87	N/A	N/A	0	0%	24	N/A	Non-producing, static water level at bottom of casing (BYA 1991)
W-10	1983	432	192	194	3/4	0	0%	24	N/A	Inactive
W-11	1983	507	285	292	3/4	0	0%	24	N/A	Inactive
W-12	1983	375	195	N/A	N/A	0	0%	24	N/A	Non-producing, casing sheared at 185 ft.elevation (BYA 1991)
W-13	1983	361	184	193	1	1,566	3%	9	5	Producing
W-14	1984	283	131	N/A	N/A	0	0%	24	N/A	Non-producing, static water level at bottom of casing (BYA 1991)
W-15	1984	295	121	130	3/4	0	0%	24	N/A	Inactive
W-16	1984	325	107	113	3/4	5,386	11%	3	5	Producing
W-17	1984	270	41	50	3/4	2,782	6%	6	4	Producing
W-18	1984	750	179	225	3	8,115	17%	1	6	Producing
BYA-1	1990	281	-162	-128	3	1,149	2%	13	4	Producing with variable flow
BYA-2	1990	665	215	242	1.5	596	1%	19	6	Producing
BYA-3	1990	510	-40	29	3	2,153	5%	8	6	Producing
BYA-4	1990	372	-68	-28	1.5	4,298	9%	4	5	Producing
BYA-5	1990	189	-231	-211	1.5	456	1%	20	1	Producing
BYA-6	1996	220	-280	-275	0.75	364	1%	21	1	Producing
BYA-7	1996	240	-120	-115	0.75	804	2%	15	2	Producing
BYA-9	1996	295	-105	-100	7.5(5)	2,925	6%	5	5	Producing
BYA-10	1996	510	210	215	1	800	2%	16	5A	Producing
BYA-11	1996	275	-125	-120	0.75	1,534	3%	10	5	Producing
BYA-12	1998	207	-140	-137	0.5	165	0%	23	1	Producing
BYA-13	1998	329	-14	-18	0.5	981	2%	14	3	Producing
BYA-14	1998	265	38	40	0.5	793	2%	17	1A	Producing
BYA-15	2002	429	340	300	1	0	0%	24	N/A	pump and motor re-installed15
FW-1	2008	170			1	650	1%	18	1A	producing, unable to remove vault cover for reading after 09/2014, vault repaired 7/2015
FW-2		270	-130			1,226	3%	12	4	producing

Note:
- Not functioning or no longer monitored dewatering well

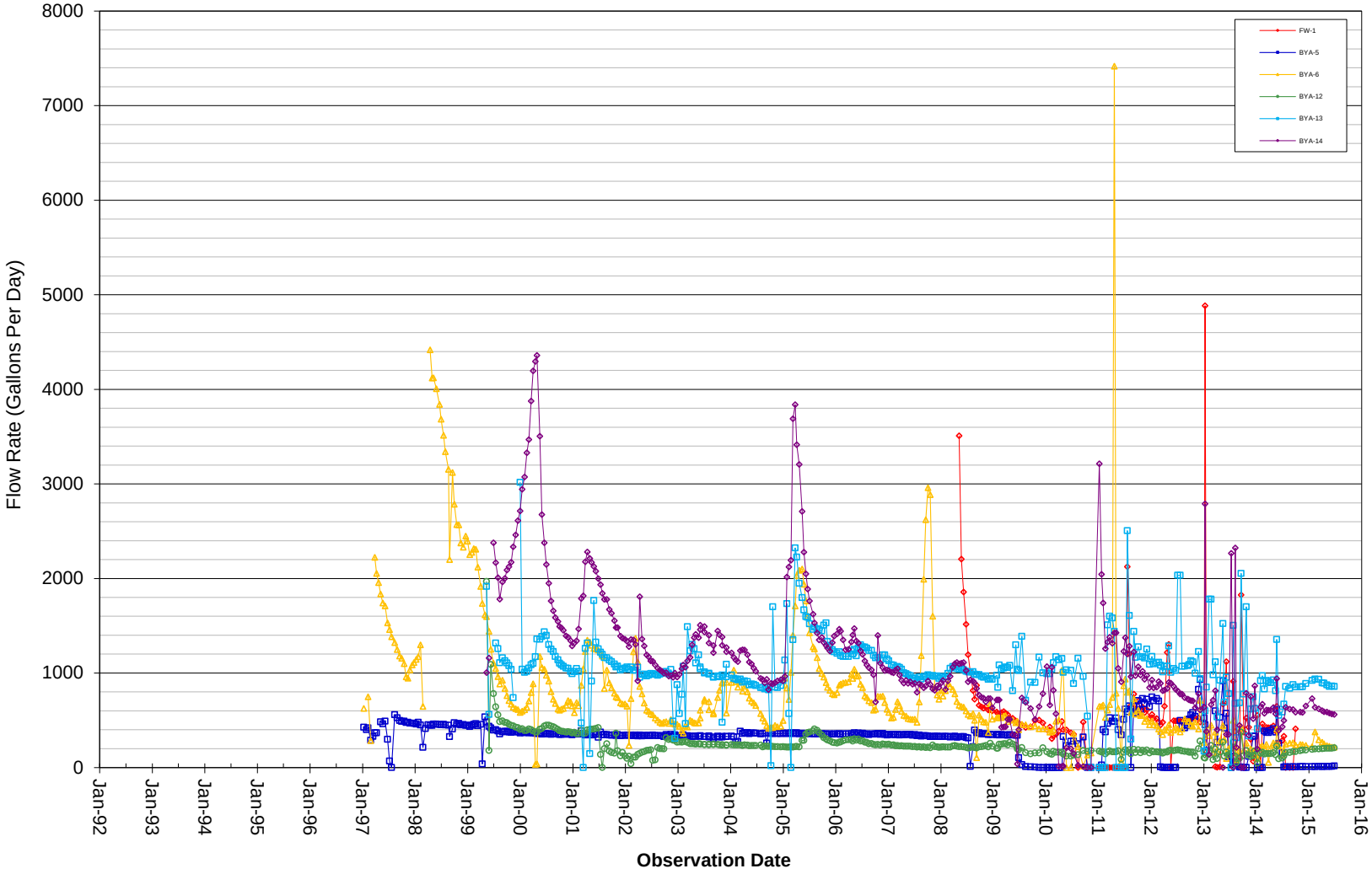
DEWATERING WELL INFORMATION
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE B-1



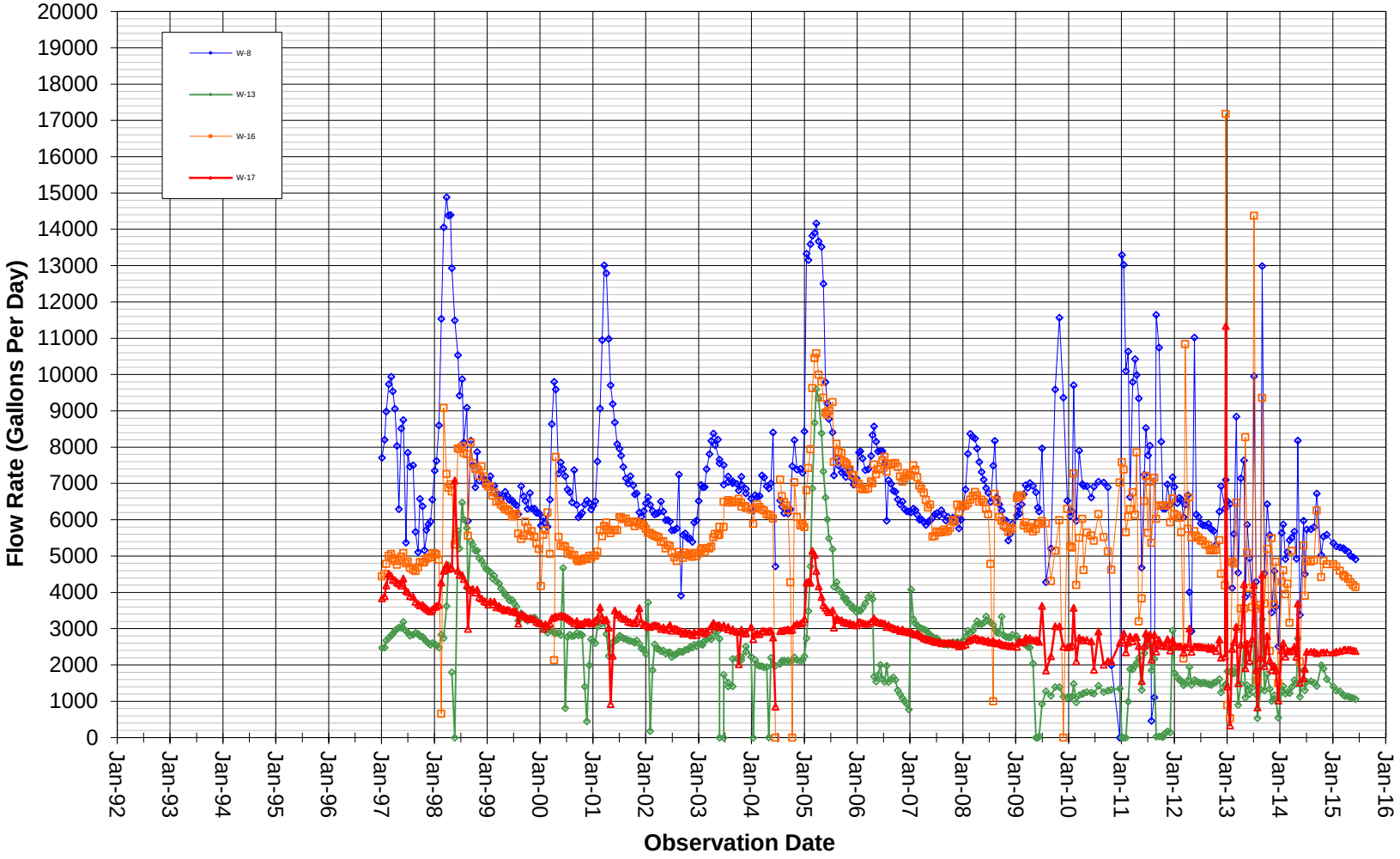
DEWATERING WELL HYDROGRAPHS
Eastern Mesa Region
Big Rock Mesa Landslide Assessment
District Malibu, California

PLATE B-2a



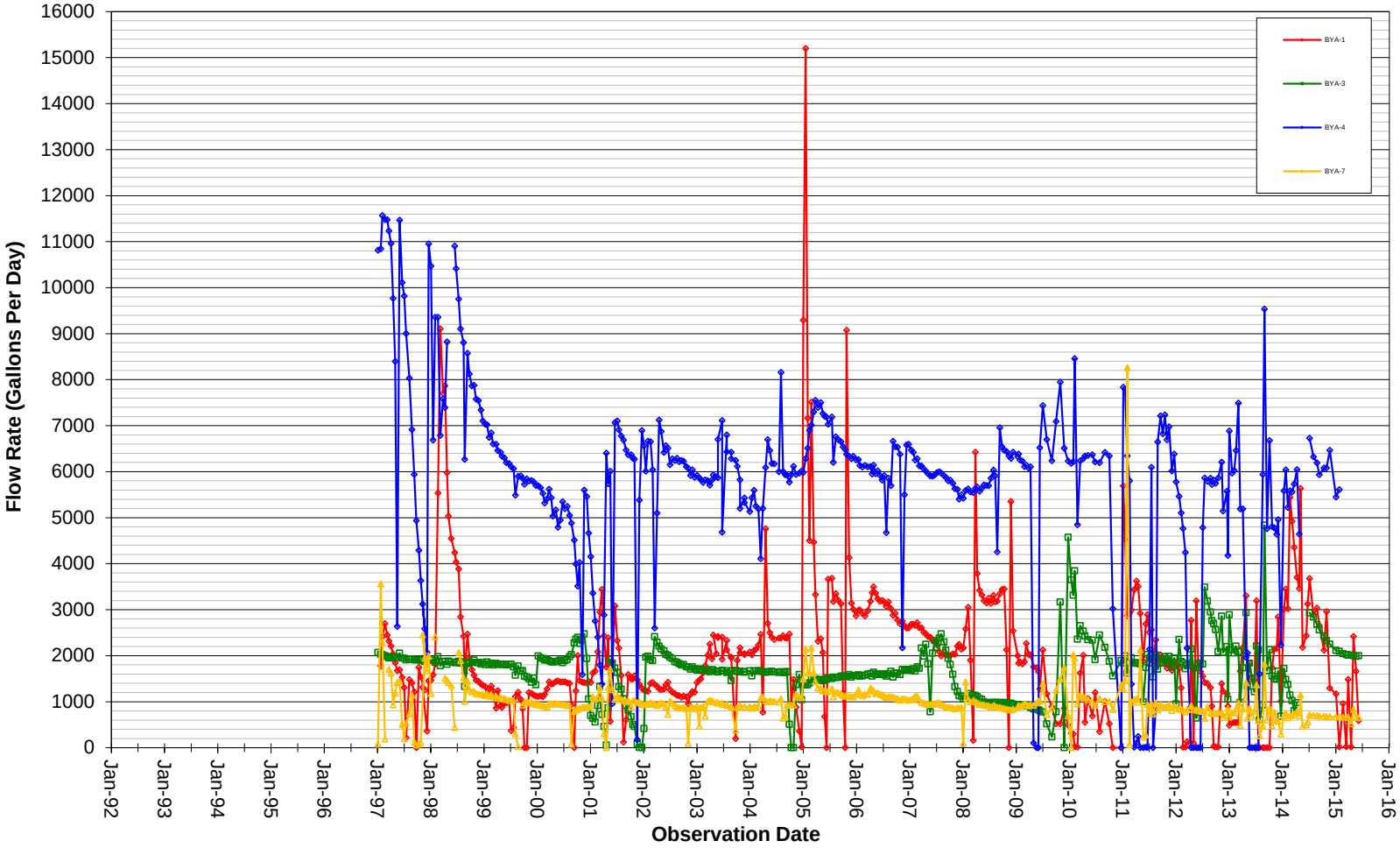
DEWATERING WELL HYDROGRAPHS
Eastern Mesa Region
Big Rock Mesa Landslide Assessment
District Malibu, California

PLATE B-2b



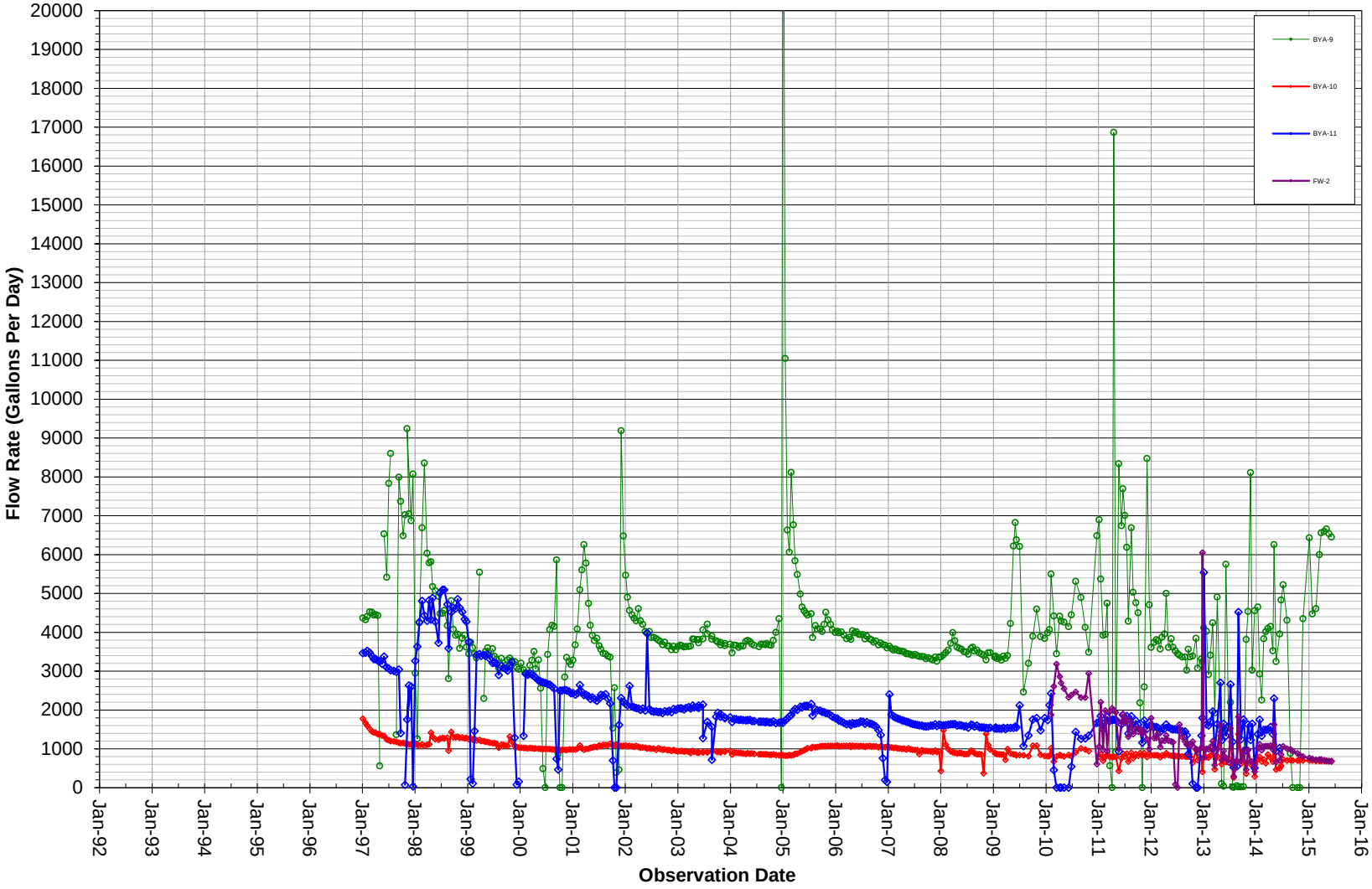
DEWATERING WELL HYDROGRAPHS
Central Mesa Region
Big Rock Mesa Landslide Assessment
District Malibu, California

PLATE B-3a



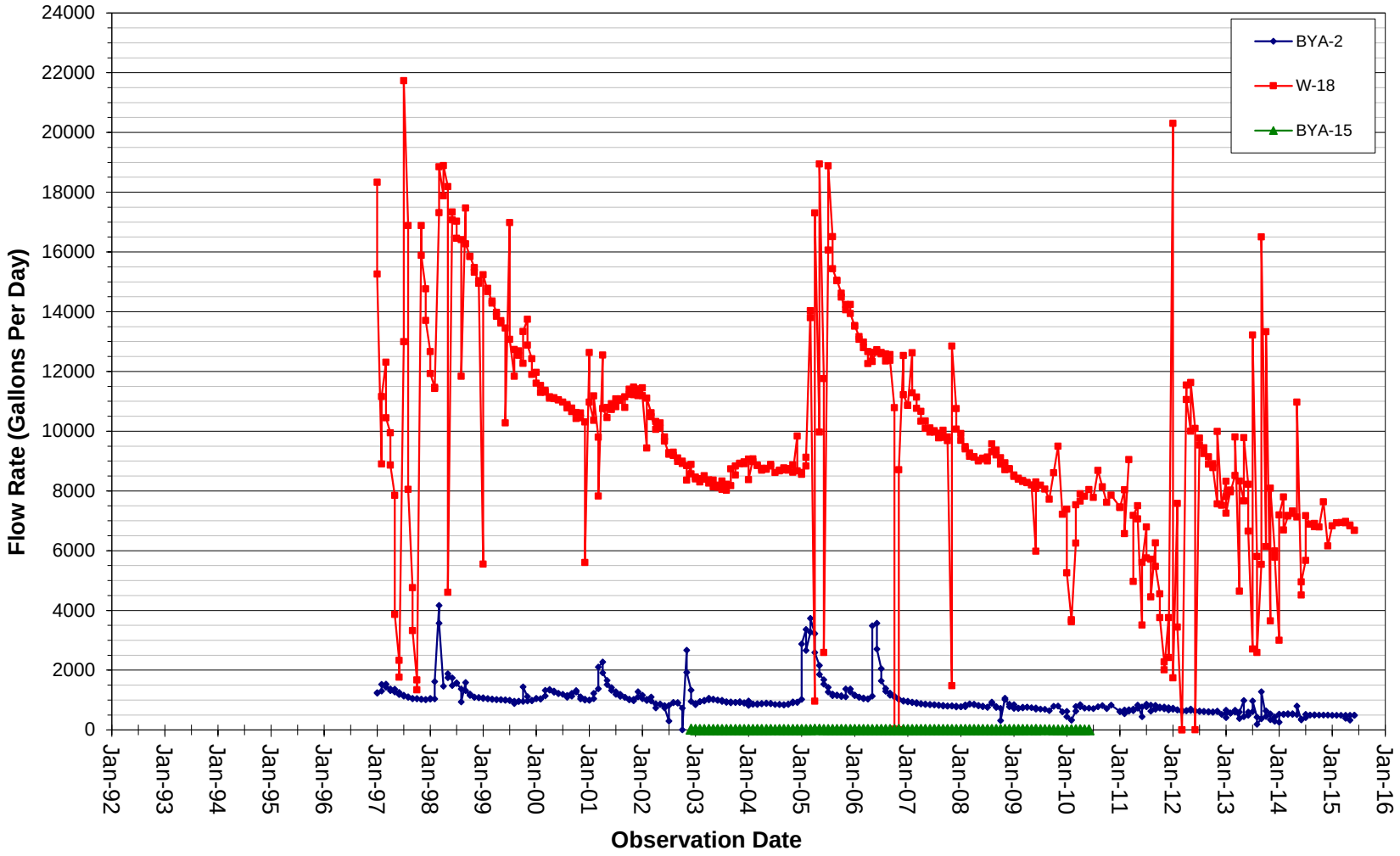
DEWATERING WELL HYDROGRAPHS
Central Mesa Region
Big Rock Mesa Landslide Assessment
District Malibu, California

PLATE B-3b



DEWATERING WELL HYDROGRAPHS
Central Mesa Region
Big Rock Mesa Landslide Assessment
District Malibu, California

PLATE B-3c



DEWATERING WELL HYDROGRAPHS
Western Extension
Big Rock Mesa Landslide Assessment
District Malibu, California

PLATE B-4

APPENDIX C
HYDRAUGER DATA

SUMMARY OF HYDRAUGER INFORMATION							
HYDRAUGER ID	INSTALLED LENGTH (ft.)	OPEN LENGTH (ft.)**	Orientation/ Slope	2013-2014 Average Flow (GPD)	% OF TOTAL PRODUCTION	Rank	INSTALLED BY
H-1	700	210**	S115W / 3	3	0.0%	24	MT
HD-4	760	10	-	815	9.1%	3	D.E.
HD-5	890	530**	-	465	5.2%	8	D.E.
HD-6	980	490**	-	380	4.2%	10	D.E.
HD-7	1160	420**	-	98	1.1%	18	D.E.
HD-9	205	205**	-	464	5.2%	9	D.E.
HD-10	990	170**	-	348	3.9%	12	D.E.
HD-11	540	540**	-	72	0.8%	19	D.E.
HD-12	690	385**	-	894	9.9%	2	D.E.
HD-15	200	200**	-	357	4.0%	11	D.E.
HD-22	568	540**	-	700	7.8%	4	D.E.
HD-23	1280	260**	-	1822	20.2%	1	D.E.
HD-24	1030	580**	-	234	2.6%	14	D.E.
HD-25	1005	360**	-	60	0.7%	20	D.E.
HD-26	1200	410**	S37W / 1	262	2.9%	13	D.E.
HD-28	1420	595**	-	6	0.1%	23	D.E.
HD-29	1150	450**	-	206	2.3%	15	D.E.
HD-30	1040	10**	S13W / 7	128	1.4%	17	D.E.
HD-33	340	340	S23W / 5	36	0.4%	21	BYA
HD-41	500	500	S18E / 3	128	1.4%	16	BYA
BYA-H8	500	345**	-	11	0.1%	22	BYA
BYA-H10	500	10**	-	470	5.2%	7	BYA
HD-42	700	700		536	6.0%	5	FWI
HD-43	700	700		505	5.6%	6	FWI
H-2*	Unknown	0	-		--		MT
H-3a*	Unknown	0	-		--		MT
H-3b*	Unknown	0	-		--		MT
H-3c*	Unknown	0	-		--		MT
H-4	680	115**	-	1	0.0%		MT
H-5a*	Unknown	0	-		--		MT
H-5b*	Unknown	0	-		--		MT
H-6a*	100	96	-		--		CT
H-6b*	100	96	-		--		CT
H-7a*	100	100	-		--		CT
H-7b*	100	96	-		--		CT
H-7c*	50	0	-		--		CT
H-8*	Unknown	0	-		--		CT
HD-1*	350	340**	-		--		D.E.
HD-2a*	70	33	-		--		D.E.
HD-2b*	Unknown	0	-		--		D.E.
HD-2c*	460	0	-		--		D.E.
HD-3	560	90**	-		--		D.E.
HD-8*	530	170**	-		--		D.E.
HD-13*	650	14	-		--		D.E.
HD-14*	130	130**	-		--		D.E.
HD-16	575	575**	-		--		D.E.
HD-17*	750	176	-		--		D.E.
HD-18*	870	285	-		--		D.E.
HD-19*	1000	182	-		--		D.E.
HD-20*	1000	446	-		--		D.E.
HD-21*	1560	147	-		--		D.E.
HD-27*	700	327	-		--		D.E.
HD-31*	140	113	-		--		D.E.
HD-32*	835	700**	-		--		D.E.
HD-34	150	150	S40W / 10	0	--		BYA
HD-35*	40	40	-		--		BYA
HD-36*	150	150	-		--		BYA
HD-37*	430	50	-		--		BYA
HD-38A*	140	140	S23W / 5		--		BYA
HD-38B*	140	140	S18W / 6		--		BYA
HD-39	400	400	S15E / 5		--		BYA
HD-40*	595	595	S25W / 6		--		BYA
BYA-6a*	350	20**	-		--		BYA
BYA-6b	60	60	-	0	--		BYA
BYA-7	400	375**	-	1	0.0%		BYA
BYA-H9*	550	550**	-		--		BYA
BYA-H11*	450	400**	S7E / 3		--		BYA

** Not functioning or no longer monitored hydrauger*

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

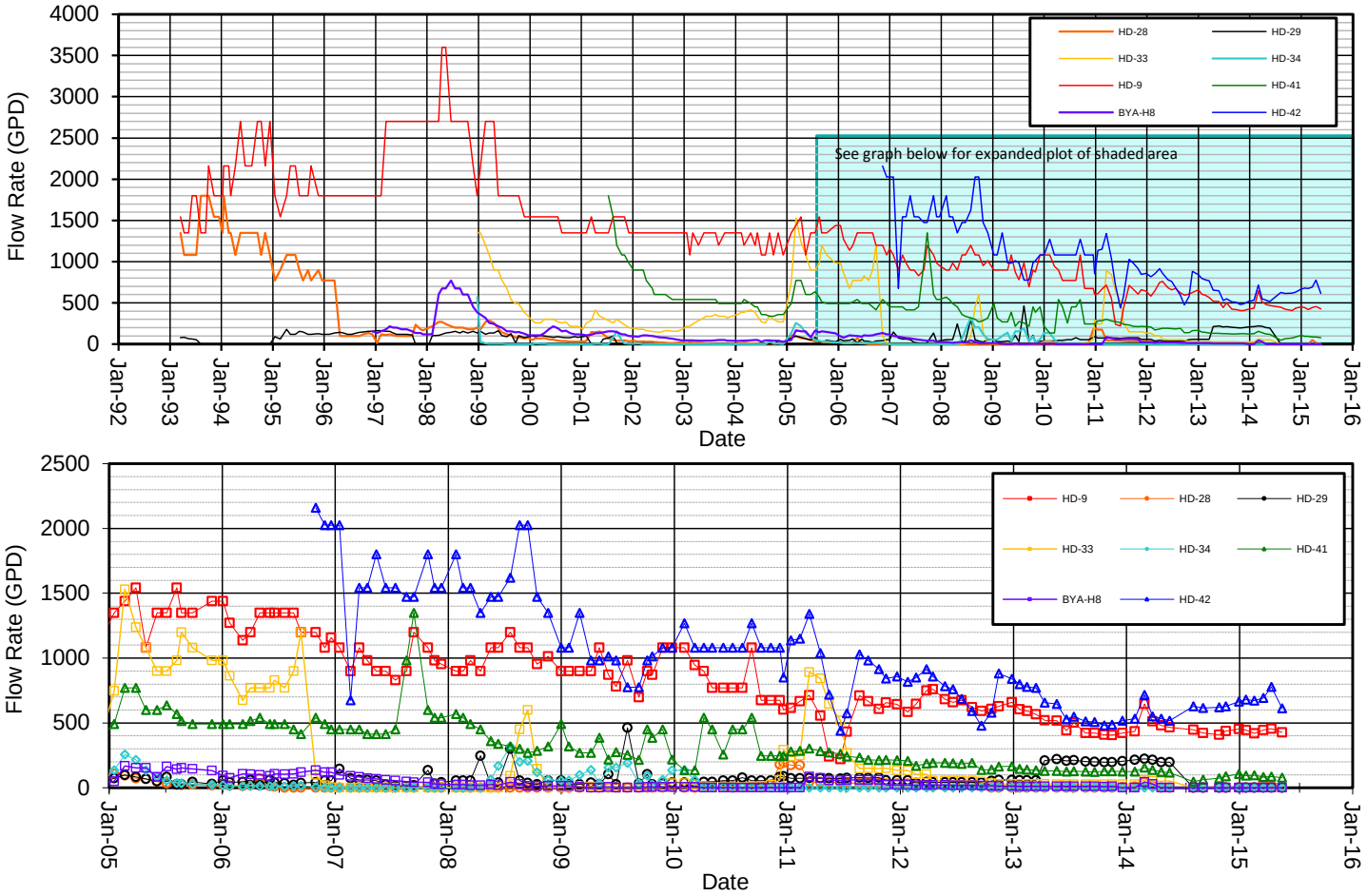
Installed by: MT = Moore & Taber; CT = Caltrans; D.E. = D.A. Evans; BYA = Bing Yen & Associates; FWI = Fugro West, Inc.

SUMMARY OF HYDRAUGER INFORMATION

Big Rock Mesa Landslide Assessment District

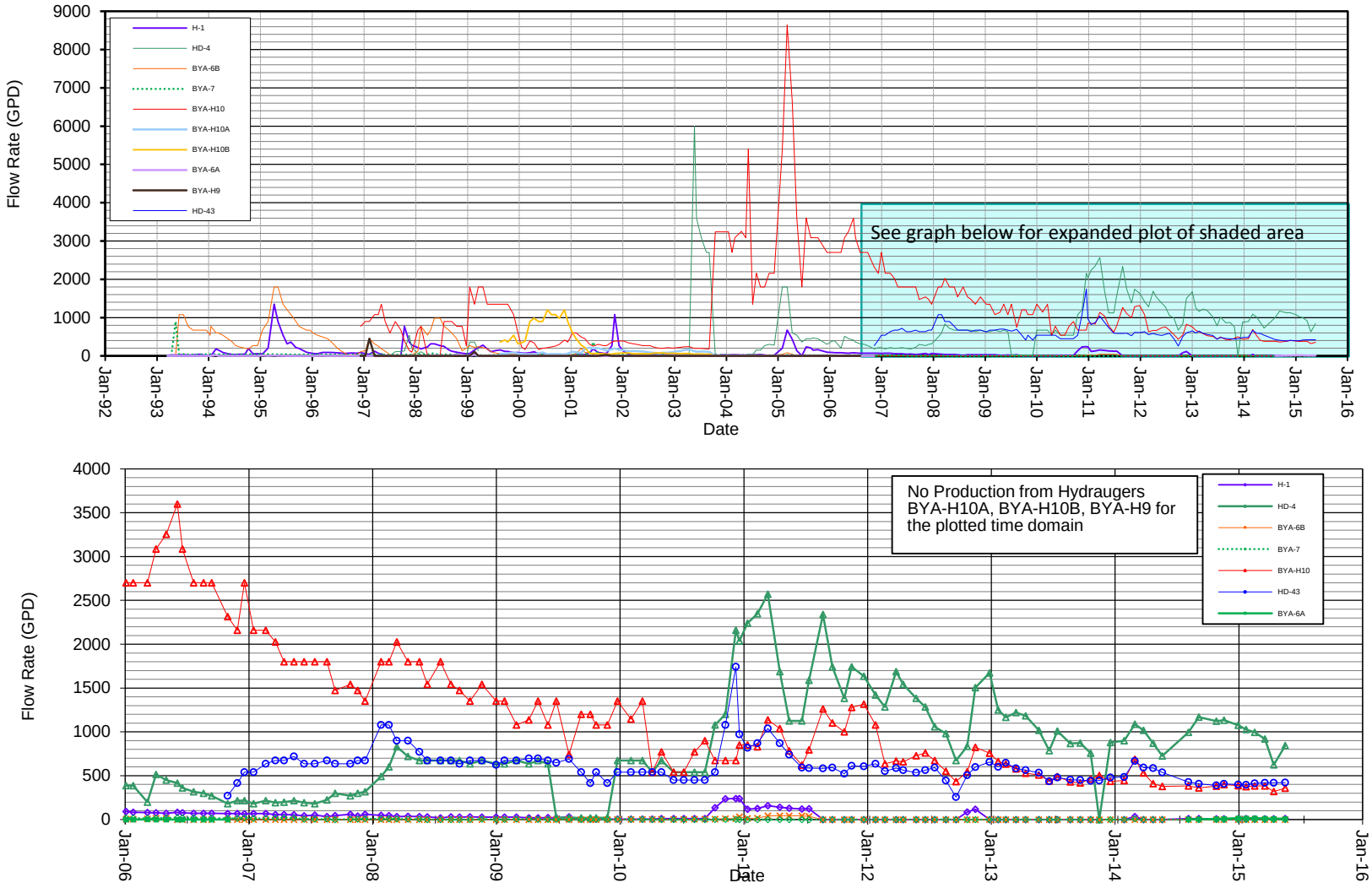
Malibu, California

PLATE C-1



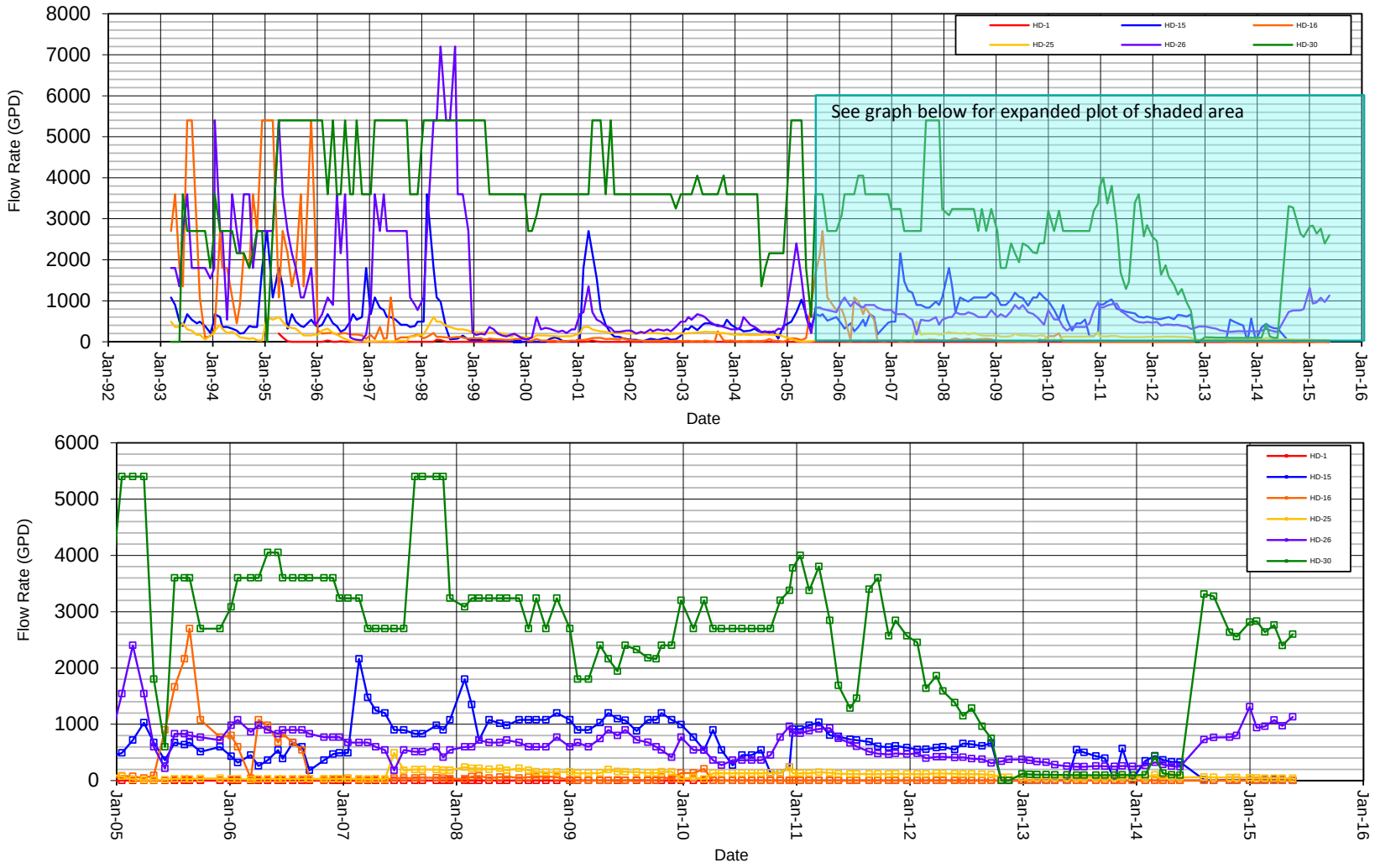
DISCHARGE RATE FOR HYDRAUGERS
Eastern Mesa Region
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE C-2b



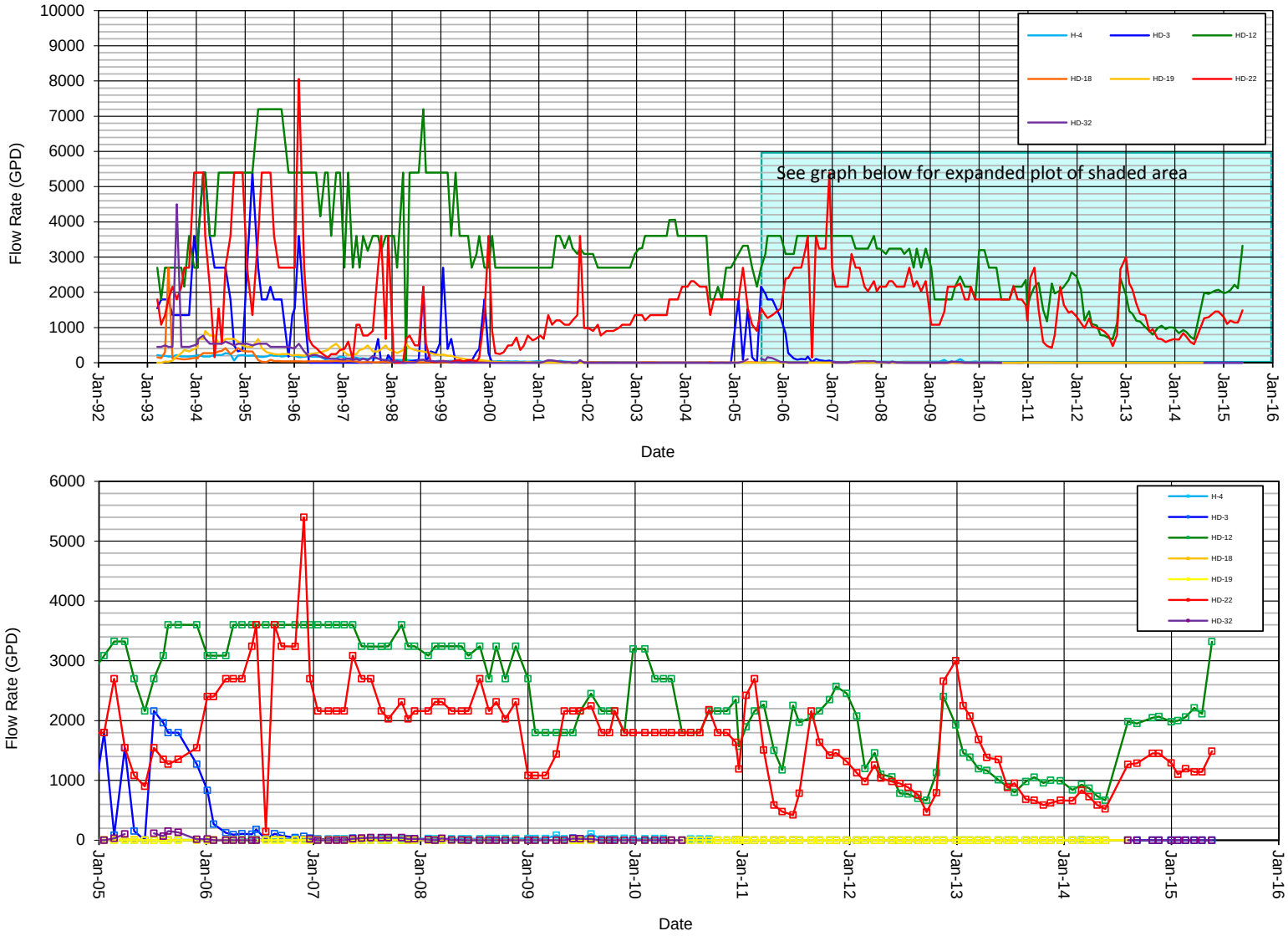
DISCHARGE RATE FOR HYDRAUGERS
Eastern Mesa Region
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE C-2b



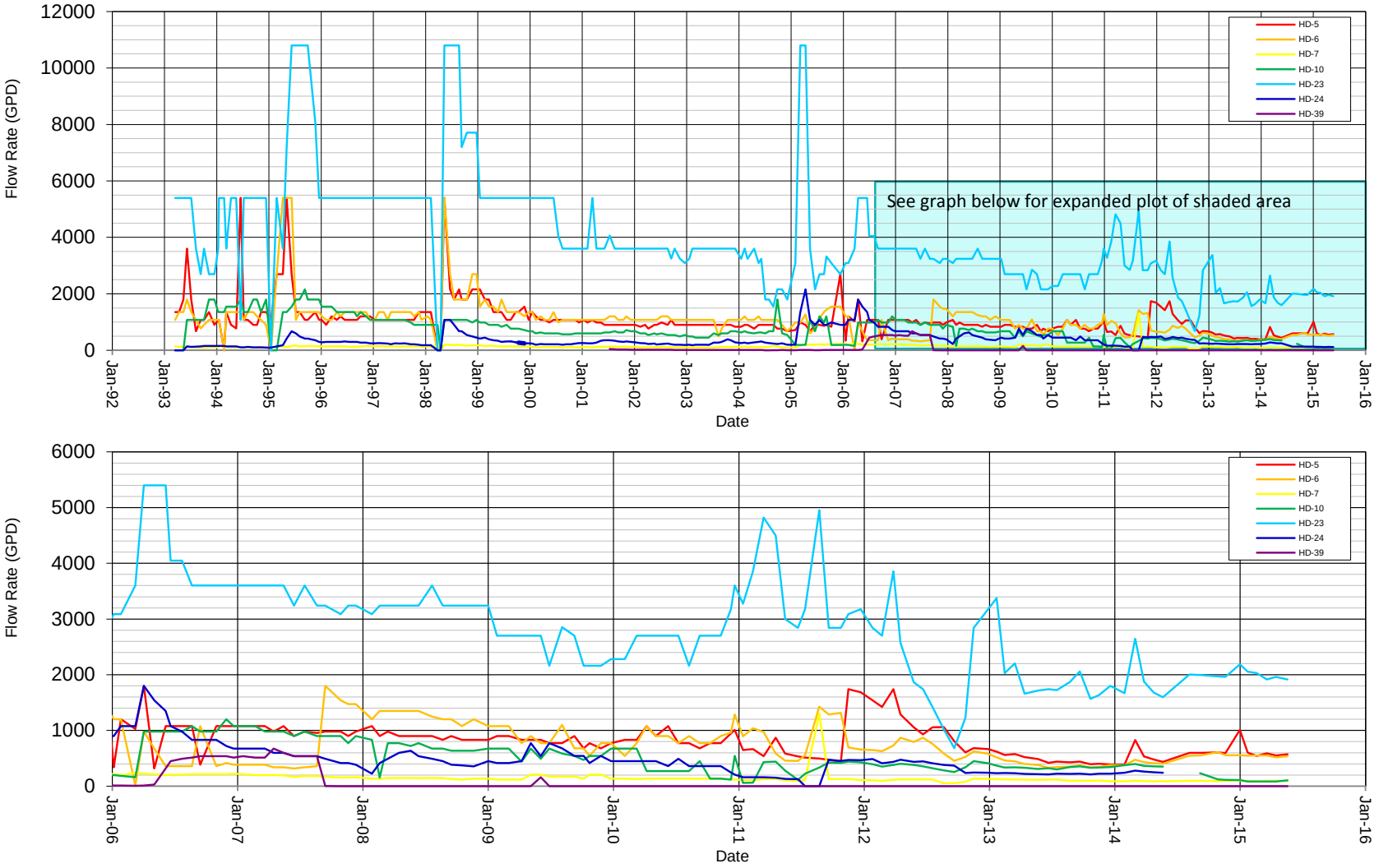
DISCHARGE RATE FOR HYDRAUGERS
Central Mesa Region
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE C-3a



DISCHARGE RATE FOR HYDRAUGERS
Central Mesa Region
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE C-3b



DISCHARGE RATE FOR HYDRAUGERS
Western Extension
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE C-4

APPENDIX D
SLOPE INCLINOMETER PLOT/DATA

SLOPE INCLINOMETER INTERPRETATION SUMMARY

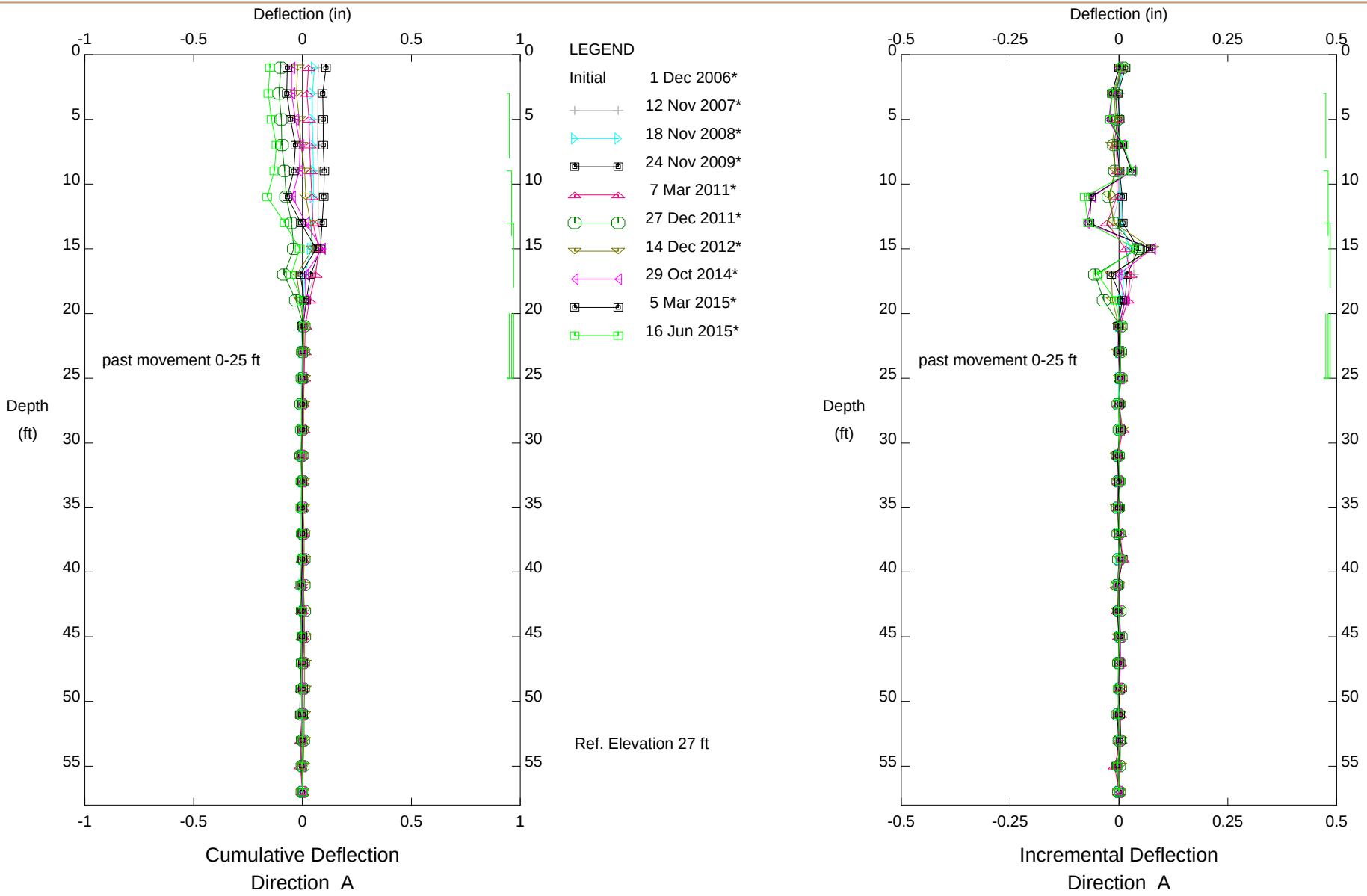
REGION	PCH							PACIFIC COAST HIGHWAY											BLUFF			EAST						CENTRAL															WESTERN				HEAD	
	SP-1	SP-11	SP-12	SP-14	SP-15	SP-19	SP-27A	SP-29	SP-30	SP-2	SP-5	SP-5A	SP-6	SP-7	SP-8	SP-8A	SP-31	SP-37	SP-10	SP-28	SP-32	PC-1	SP-3	SP-3A	SP-33	BYA-5A	SP-18	SP-9A	SP-16A	SP-17	SP-17A	SP-17B	SP-24	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.	NI	27	26	25	20	25	29	27	29	NI	NI	NI	NI	NI	NI	NI	NI	NI	295	270	233	250	212	203	318	NI	NI	365	285	540	540	540	370	270	345	380	NI	285	430	660	780	860	745	NI
Original Depth (ft)	43	59	95	32	88	95	100	140	155	32	98	146	102	Unknow	Unknow	106	140	336	330	365	360	160	240	295	375	300	78	378	390	192	325	250	390	360	360	200	245	380	330	380	335	390	350	Unknown
Measured Depth (ft)	NI	56	38	30	80	82	92	138	126	NI	NI	146	NI	NI	NI	106	NI	NI	332	250	350	158	132	244	374	186	NI	298	392	190	238	250	384	380	394	254	96	240	322	280	330	396	342	NI
Casing Diameter	NI	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	NI	NI	2.75	NI	NI	NI	2.75	NI	NI	2.75	2.75	2.75	2.75	2.75	2.75	2.75	NI	NI	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	NI	NI	3.5	2.75	2.75	3.5	3.5	NI
Casing Type	NI	SI/cc	Alum/cc	SI/cc	Alum/cc	Alum/cc	Alum/cc	SI	SI	NI	NI	NI	NI	NI	NI	NI	NI	NI	Alum/cc	Alum	Alum/cc/ mod	SI/1.5"	Alum/cc	Alum/cc	Alum/cc/ mod	NI	NI	Alum	Alum/cc	SI/cc	SI	SI	Alum	SI	SI	SI	NI	NI	Alum/3.5 "/cc	Alum/cc	Alum	Alum/3.5 "	Alum/3.5"	NI
Perforated interval	NI	-31 to -26	-14 to -9	-5 to 0	-62 to -57	-57 to -52	-65 to -60	-111 to -106	-99 to -94	NI	NI	bottom	NI	NI	NI	bottom	NI	NI	-37 to -32	-88 to -83	-121 to -116	92 to 97	80 to 85	-43 to -38	-56 to -51	NI	NI	65 to 70	-107 to -102	348 to 353	302 to 307	None	NI	-112 to -107	-51 to -46	126 to 131	NI	45 to 50	104 to 204	380 to 385	448 to 453	462 to 562	NI	NI
Backfill	NI	Sand	NI	NI	NI	NI	NI	NI	NI	NI	NI	Grout	NI	NI	NI	Grout	NI	NI	NI	NI	NI	Grout	Sand	Sand	NI	NI	NI	NI	NI	NI	Grout	Grout	NI	Grout	Grout	Grout	NI	NI	Filter	NI	NI	NI	Sand	NI
Installed By	KB	EVANS	EVANS	EVANS	EVANS	EVANS	EVANS	EVANS	EVANS	KB	CT	BYA	CT	CT	CT	BYA	EVANS	CT	EVANS	EVANS	EVANS	BYA	EVANS	EVANS	EVANS	BYA	LS	EVANS	EVANS	EVANS	BYA	Fugro	CONV	BYA	BYA	BYA	EVANS	EVANS	CONV	EVANS	CONV	CONV	CONV	EVANS
Reading Interval	NR	Quart	Quart	Quart	Semi.	Semi.	Quart	Quart	Quart	NR	NR	NR	NR	NR	NR	NR	NR	NR	Quart	Quart	Quart	Quart	Semi.	Quart	Quart	NR	NR	Semi.	Semi.	NR	NR	Quart	Semi.	Quart	Quart	Quart	NR	NR	Semi.	Semi.	Semi.	Semi.	Quart	NR
Status	D	F	F	F	F	F	F	F	F	D	D	D	D	D	D	D	D	D	F	F	F	F	F	F	F	D	D	F	F	F	F	F	F	F	F	F	D	D	F	F	F	F	F	D
Date 1st Base Reading	10/31/83	9/13/88	9/13/88	9/13/88	3/10/88	9/3/89	12/10/87	10/19/88	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	11/5/87	9/8/88	9/7/88	6/8/95	9/7/88	NI	6/3/87	NI	NI	3/10/88	3/10/88	NI	2/10/89	11/13/12	9/8/88	2/19/99	11/24/98	11/20/98	11/18/83	NI	11/5/87	7/2/87	7/2/87	9/8/88	9/13/88	NI
Displacement Depth		0 to 25	23, 43		58	60	25-30	48-54	39	NI	NI	NI	NI	NI	NI	NI	NI	NI	>330	245	110,250	143, 50	132, 170, 220	247, 200	210, 50	NI	NI	305	380	140,184	196	NI				78	NI	251	142	NI	NI	NI	45,130	NI
A+ axis direction	NI	34	44	35	20	30	350	64	10	NI	NI	NI	NI	NI	NI	NI	NI	NI	39	204	18	190	32	60	20	NI	NI	340	330	10	60	NI	326	210	184	164	NI	NI	1	300	345	5	45	NI
Region	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	PCH	BLUFF	BLUFF	BLUFF	EAST	EAST	EAST	EAST	EAST	EAST	CENT.	CENT.	CENT.	CENT.	CENT	CENT.	CENT.	CENT.	CENT.	CENT.	CENT.	WEST.	WEST.	WEST.	WEST.	HEAD	HEAD
Basal Surf. Penetrated		YES	NO	NO	NO	NO	YES	YES	YES										NO	NO	YES	YES	NO	NO	YES			NO	NO	NO	YES	YES	YES	YES	YES	YES	NI	NI	NO	NO	NO	NO	YES	NI
Interpretation Movement (inches)																																												
2014-2015	NA	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2	NA	<0.2	<0.1	<0.1	<0.1	0.2	NA	NA	<0.2	<0.1	NA	NA	<0.2	<0.2	<0.1	<0.2	<0.2	NA	NA	<0.1	<0.1	<0.1	<0.2	<0.2	NA
2013-2014	NA	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2	<0.1	<0.1	<0.1	<0.2	<0.1	0.2	NA	NA	<0.1	<0.1	NA	NA	<0.1	<0.2	<0.1	<0.2	<0.1	NA	NA	<0.1	<0.1	<0.2	<0.2	<0.2	NA
2012-2013	NA	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	NA	NA	<0.1	<0.1	NA	NA	<0.1	<0.1	<0.1	<0.1	<0.1	NA	NA	<0.1	<0.1	<0.1	0.1	<0.1	NA
2011-2012	NA	<0.1	--	--	--	--	<0.1	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5	<0.1	0.2	0.05	--	0.2	0.2	NA	NA	--	--	0.25	0.1		--	--	--	0.3	NA	NA	0.2	0.2	0.4	0.1	0.1	NA
2010-2011	NA	<0.1	--	--	--	--	<0.1	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	<0.1	<0.1	--	--	0.2	<0.1	NA	NA	--	--	0.5	--		--	--	--	--	NA	NA	--	--	--	<0.1	--	NA
2009-2010	NA	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	0.1	--	--	--	--	<0.1	NA	NA	--	--	--	--		--	--	--	--	NA	NA	--	--	--	0.1	<0.05	NA
2008-2009	NA	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	0.10	--	0.1	NA	NA	--	--	--	--		--	--	--	--	NA	NA	--	--	--	--	--	NA
2007-2008	NA	--	--	--	--	--	0.05	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--	0.1	NA	NA	--	--	--	--		--	--	--	--	NA	NA	--	--	--	--	--	NA
2006-2007	NA	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--	0.1	NA	NA	--	--	--	--		--	--	--	--	NA	NA	--	--	--	--	--	NA
2005-2006	NA	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA	--	--	--	--	--	NA	NA	--	--	--	0.1		--	--	--	--	NA	NA	--	--	--	--	0.22	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	--	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	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	NA	NA	--	--	--	--		--	--	--	--	NA	NA	--	--	--	--	--	NA
2002-2003	NA	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	NA	NA	--	--	--	--		--	--	--	--	NA	NA	--	--	--	--	--	NA
2001-2002	NA	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	--	--	--	--	NA	NA	--	--	--	--		--	--	--	--	NA	NA	--	--	--	--	--	NA
2000-2001	NA	--	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	-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	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	--	--	--	<0.5	--	--	--	NA	NA	--	--	--	--		--	--	--	--	NA	NA	--	--	--	--	1.9	NA
1997-1998	NA	0.3	--	--	--	--	0.08	0.04	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	0.08	--	0.02	0.08	NA	NA	--	--	--	0.03		--				NA	NA	--	--	--	--	1	NA
1996-1997	NA	<0.1	--	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	<0.1	--	0.5	--	NA	NA	--	--	--	--		--				NA	NA	--	--	--	--	0.7	NA
1995-1996	NA	0.08	<0.1	--	--	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	0.07	--	--	--	NA	NA	--	--	--	0.04		--				NA	NA	--	--	--	--	3.5	NA
1994-1995	NA	0.1	0.08	--	--	--	0.15	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	--	--	0.04, 0.05	--	--	0.1, 0.2	NA	NA	--	--	--	--		--				NA	NA	--	--	--	--	5	NA
1993-1994	NA									NA	NA	NA	NA	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	--	--	--		--	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		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	--	--	--		--	0.3	0.05	NA	NA	--	--	--	--		0.1				NA	NA	--	--	--	--	0.3	NA
1983-1984	2.28	3.4					1.4																8.4							4.8							4.7							

NI	No Information	--	No quantifiable measurement	Installation Designations:	KB	Kovacs-Byer, Inc.	GS	GeoSoils	--	Shaded Blue to indicate inclinometer does NOT penetrate the basal rupture
Semi	Semi-Annually	NA	Data not available		EVANS	D.A. Evans	BYA	Bing Yen & Associates	--	Shaded yellow to indicated inclinometer does penetrate basal rupture
Quart	Quarterly	NR	No Reading		CT	Caltrans	LS	Lockwood-Singh	--	Shaded gray to indicated inclinometer is no longer monitored
F	Functioning				CONV	Converse Consultants				
D	Destroyed									

SLOPE INCLINOMETER INFORMATION

Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE D-1

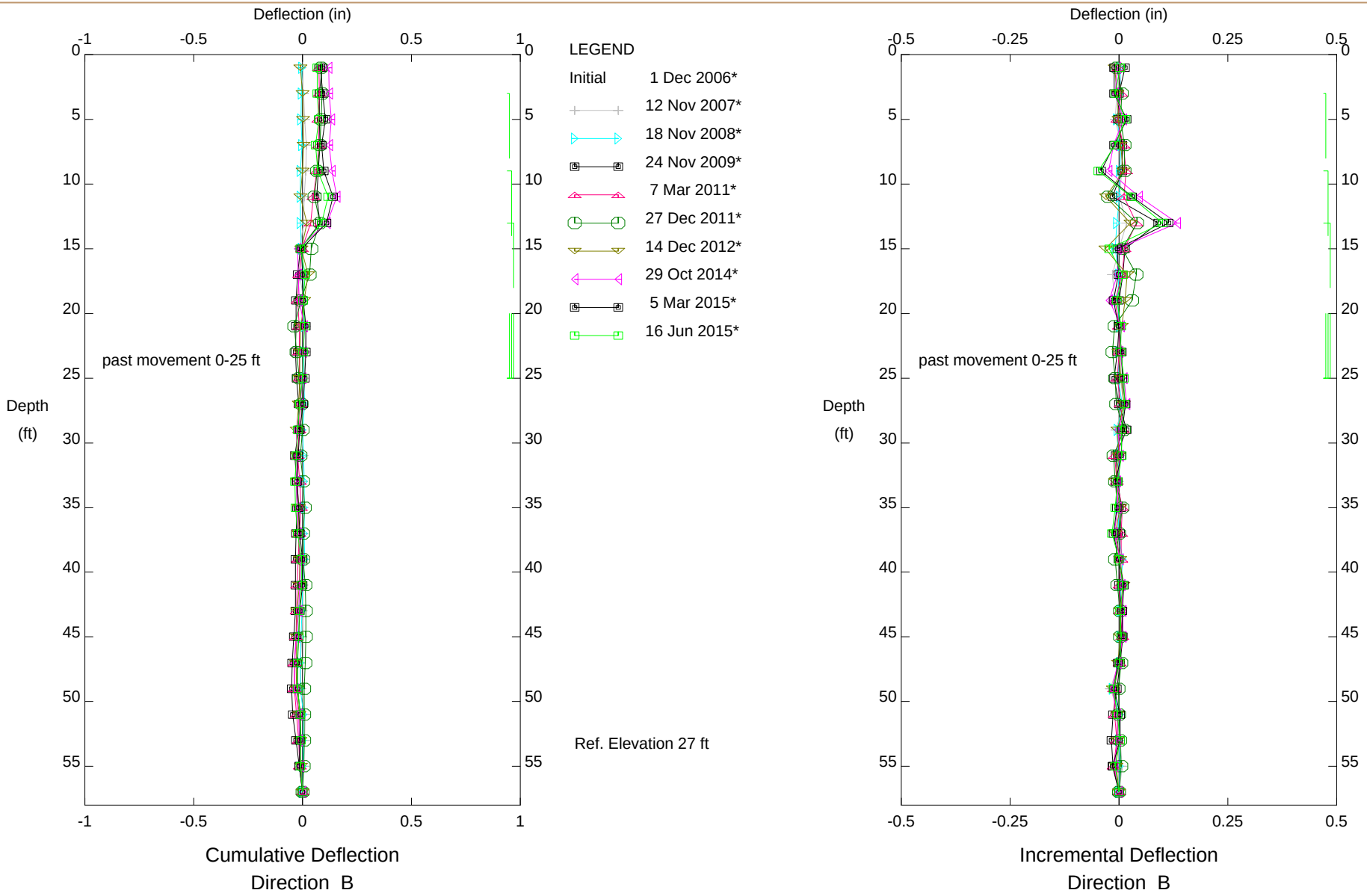


BIG ROCK MESA, Inclinometer SP-11

PCH REGION

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

PLATE D-2a

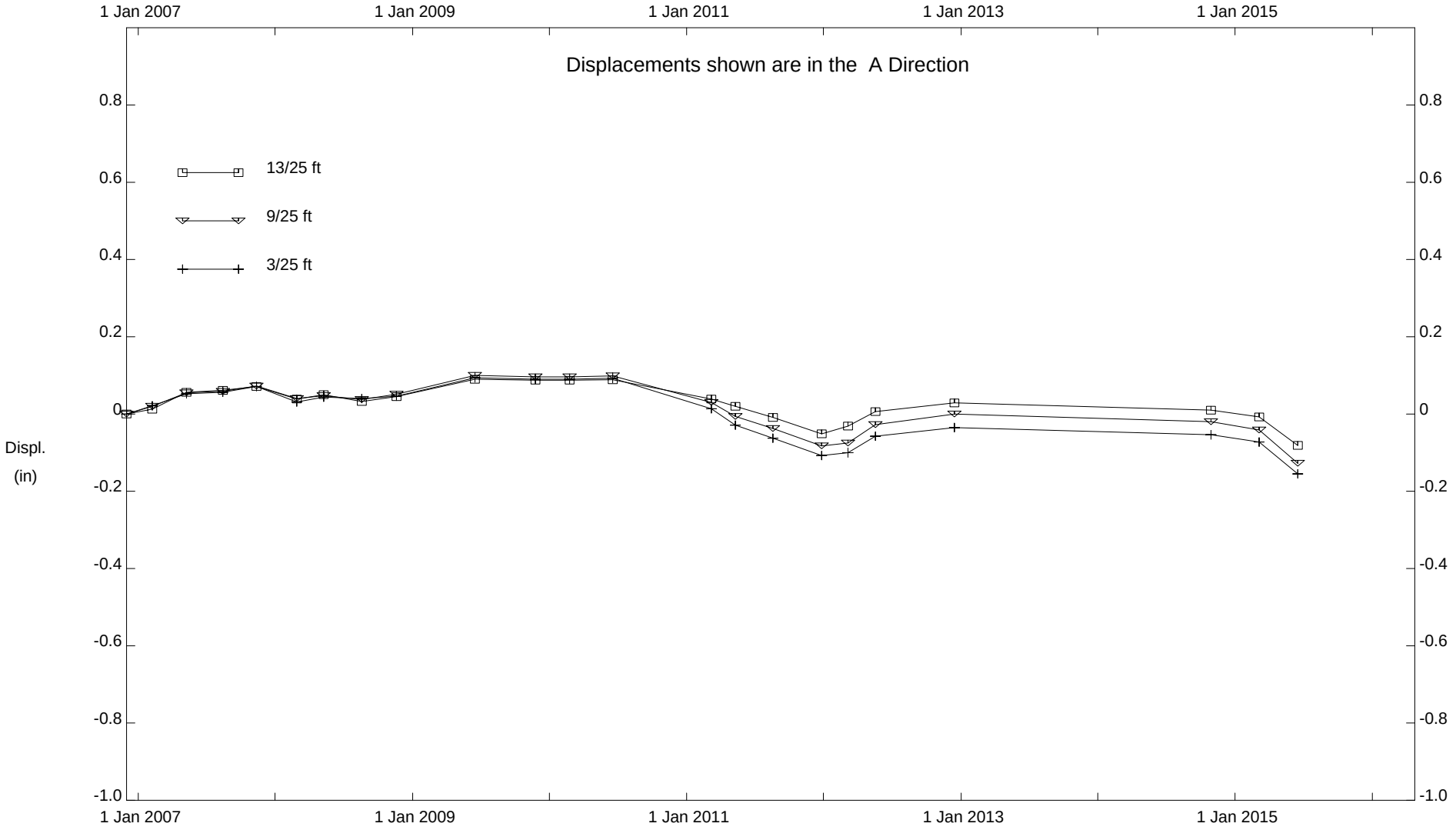


BIG ROCK MESA, Inclinometer SP-11

PCH REGION

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

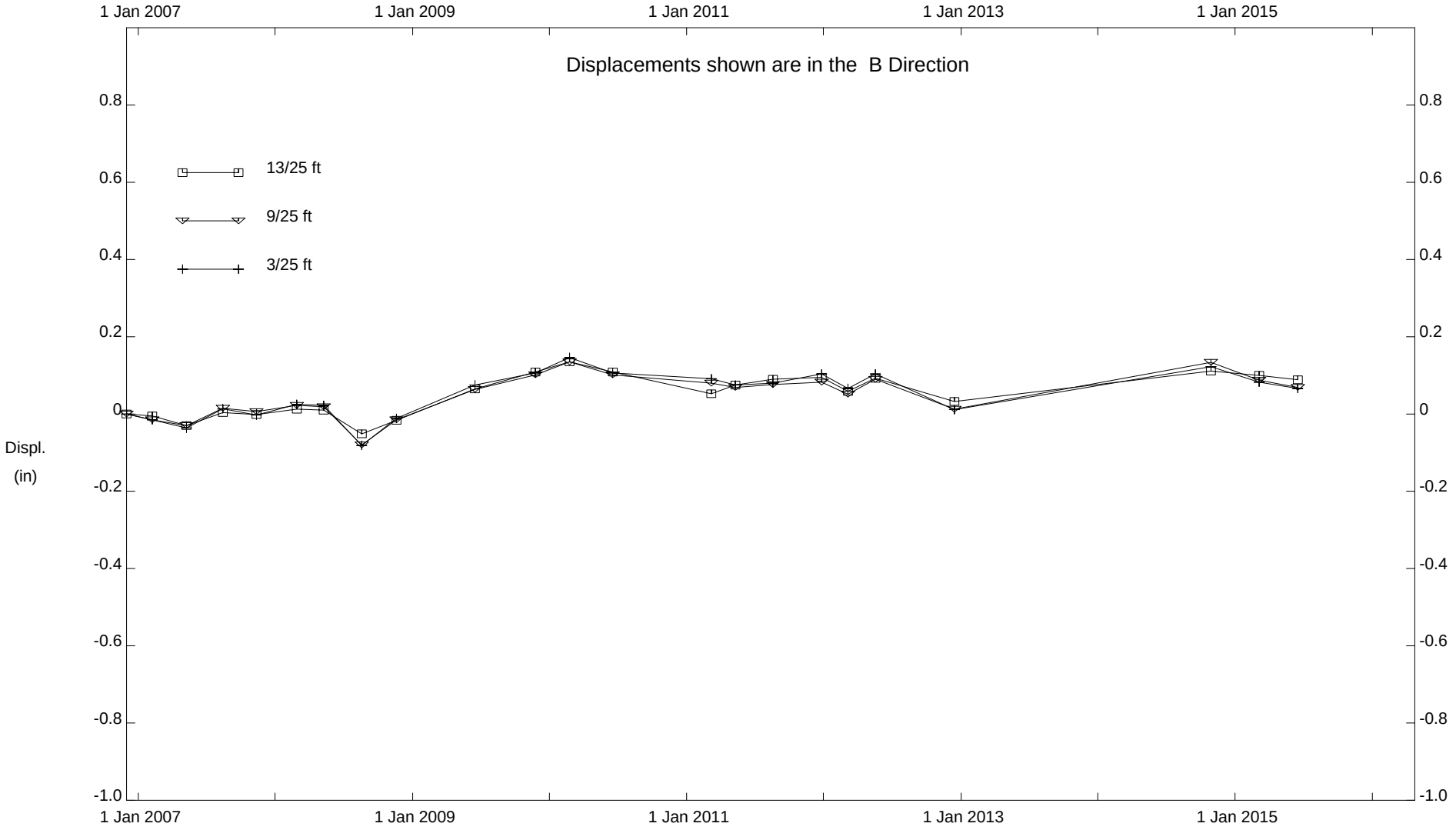
PLATE D-2b



BIG ROCK MESA, Inclinometer SP-11

PCH REGION

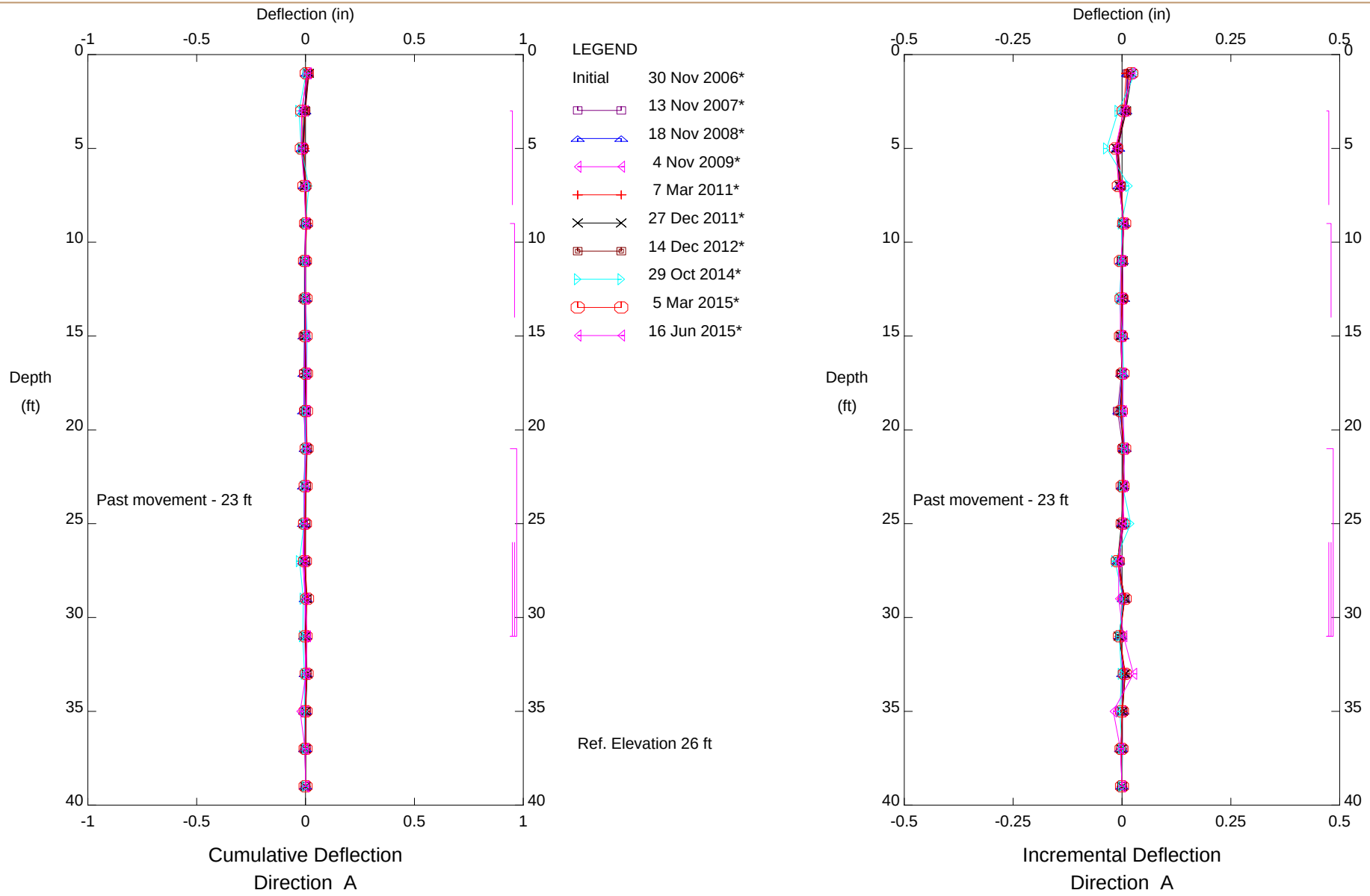
PLATE D-2c



BIG ROCK MESA, Inclinometer SP-11

PCH REGION

PLATE D-2d

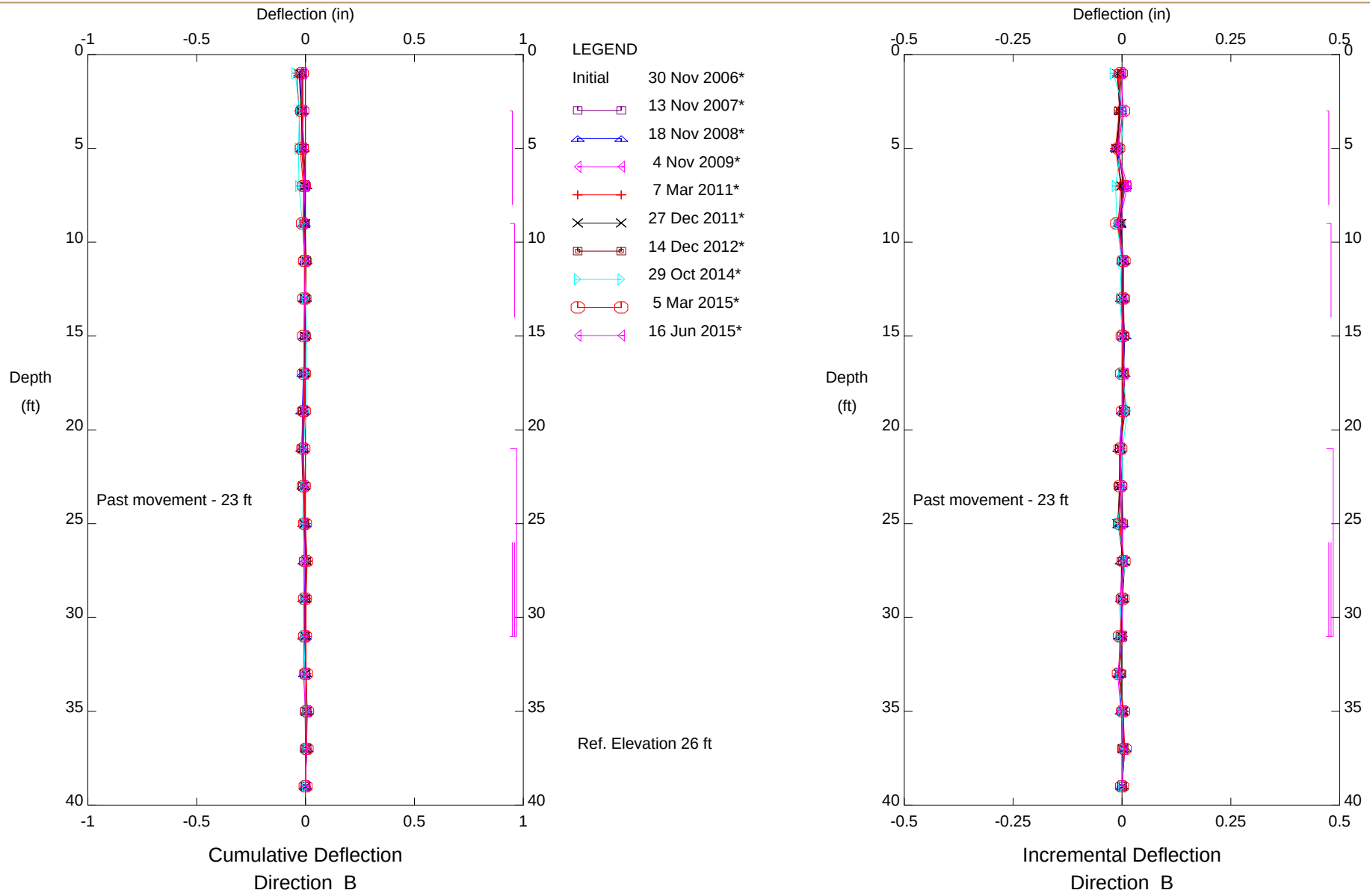


BIG ROCK MESA, Inclinometer SP-12

PCH REGION

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

PLATE D-3a

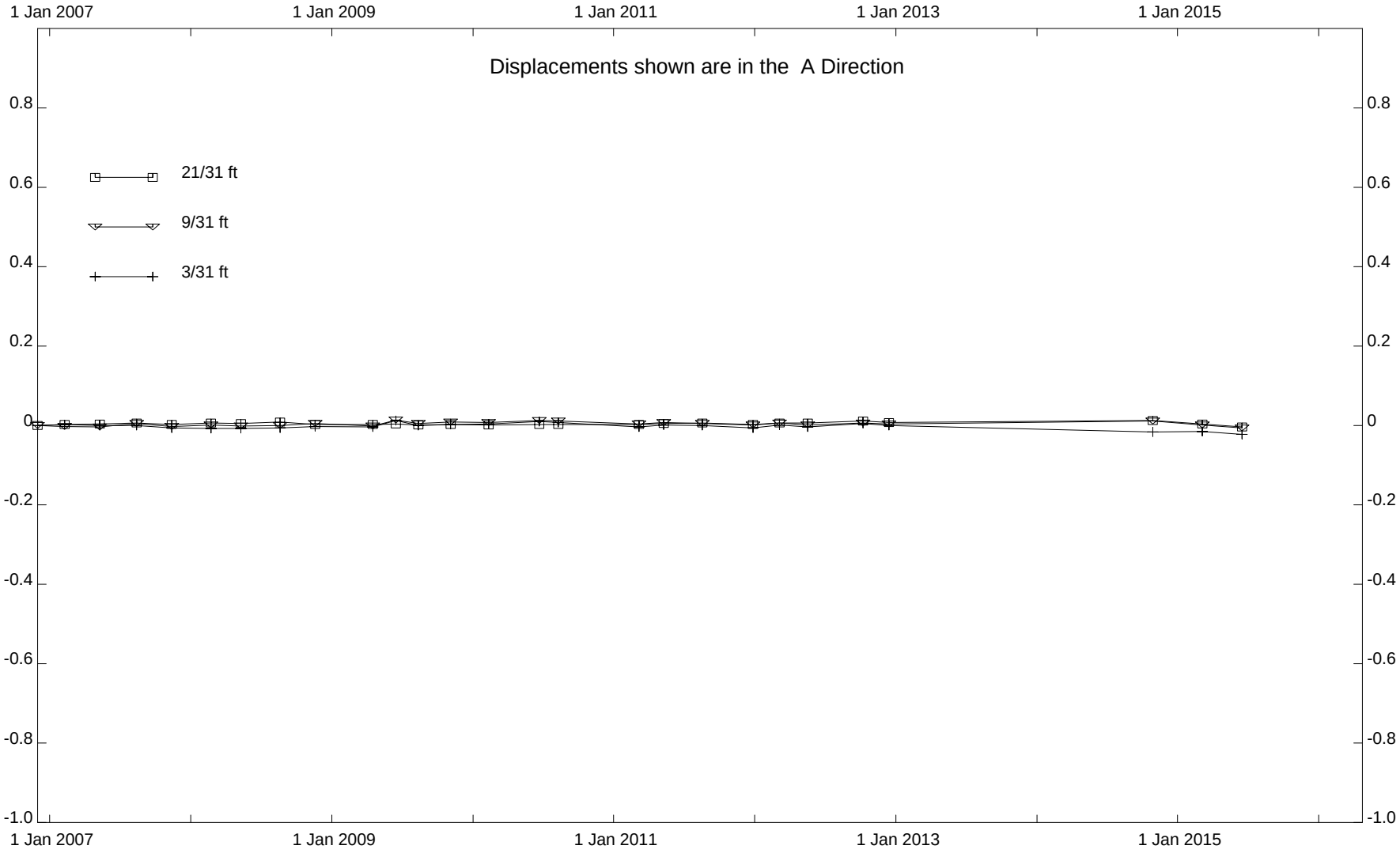


BIG ROCK MESA, Inclinometer SP-12

PCH REGION

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

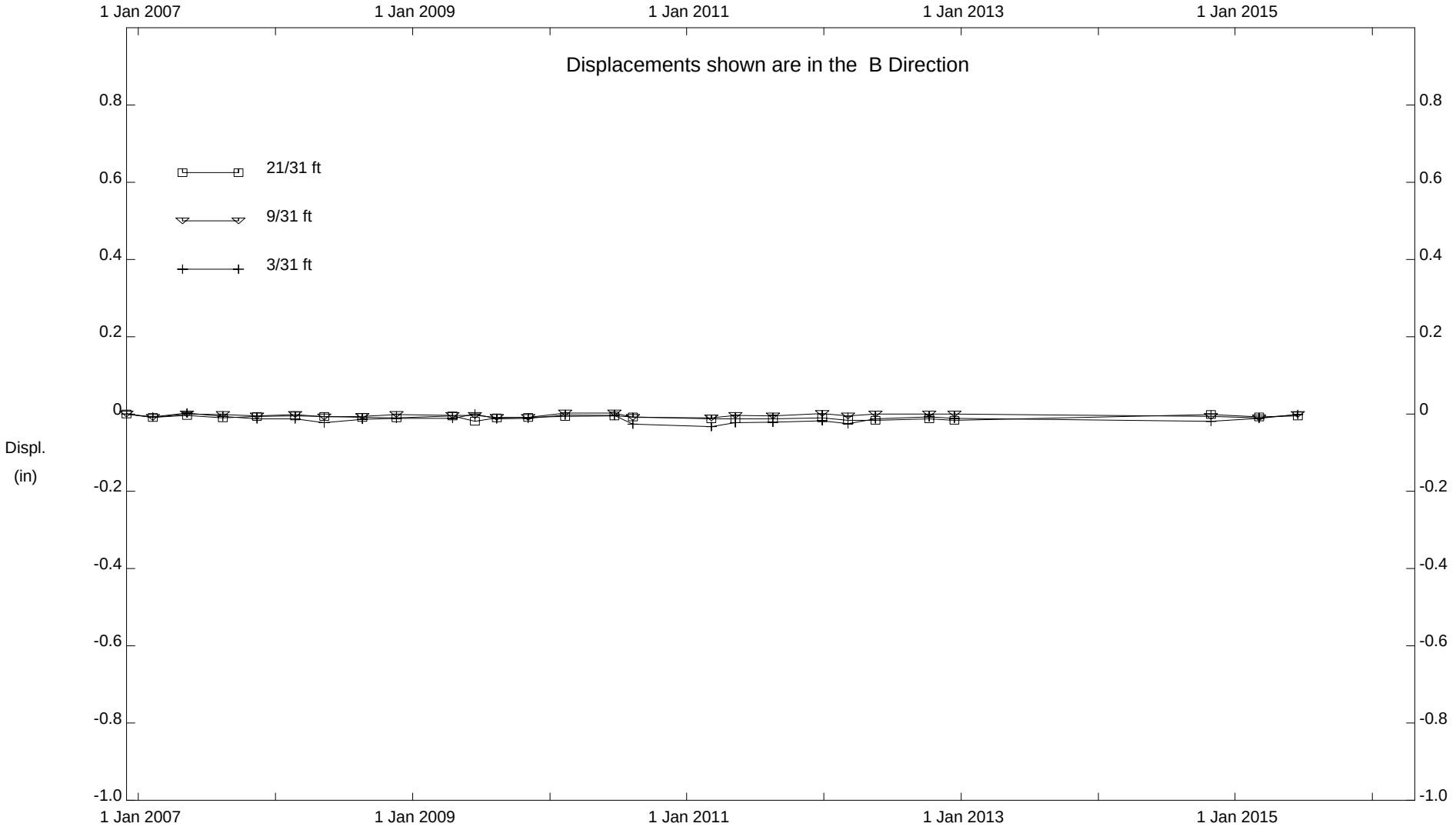
PLATE D-3b



BIG ROCK MESA, Inclinometer SP-12

PCH REGION

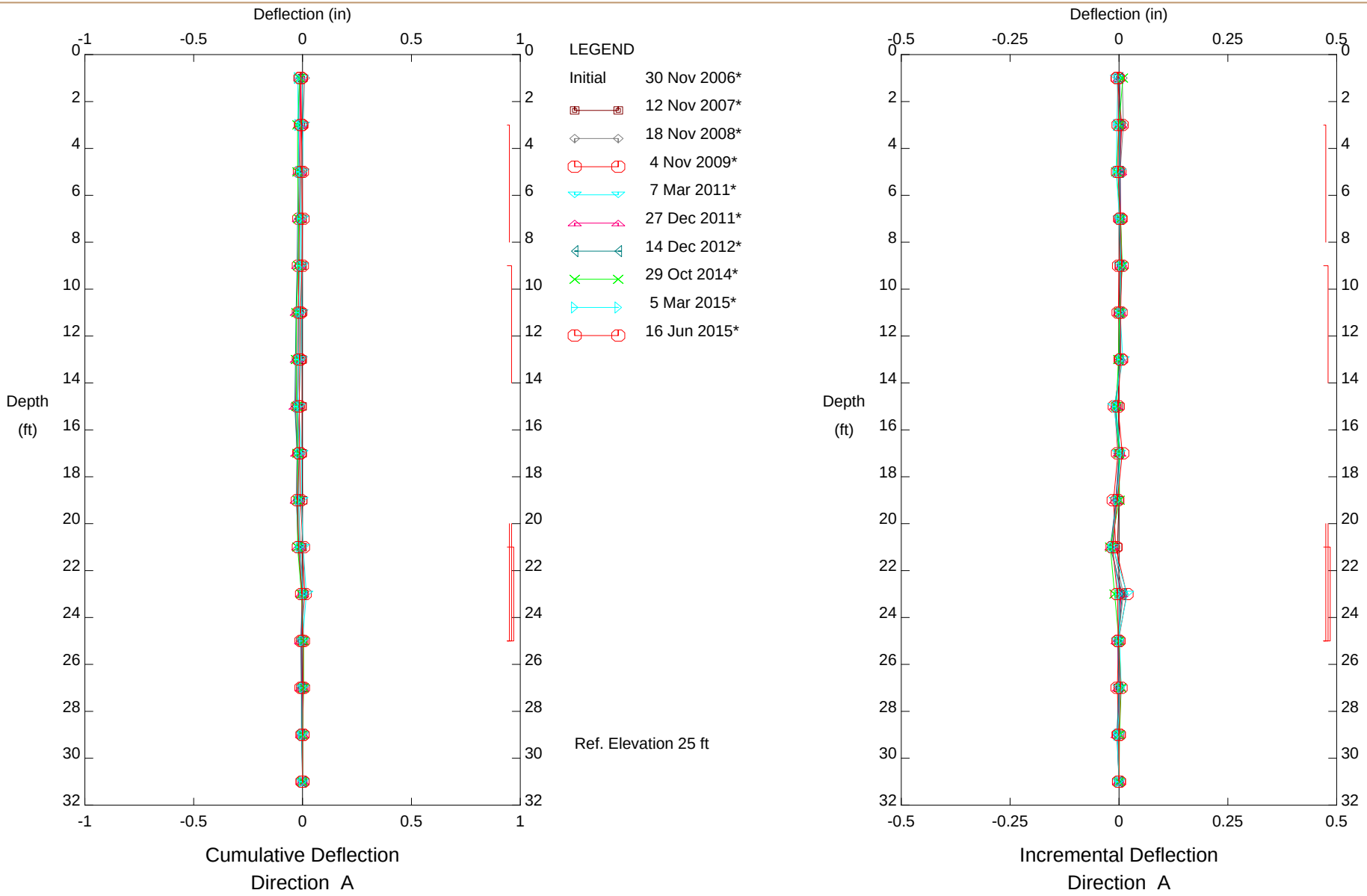
PLATE D-3c



BIG ROCK MESA, Inclinometer SP-12

PCH REGION

PLATE D-3d

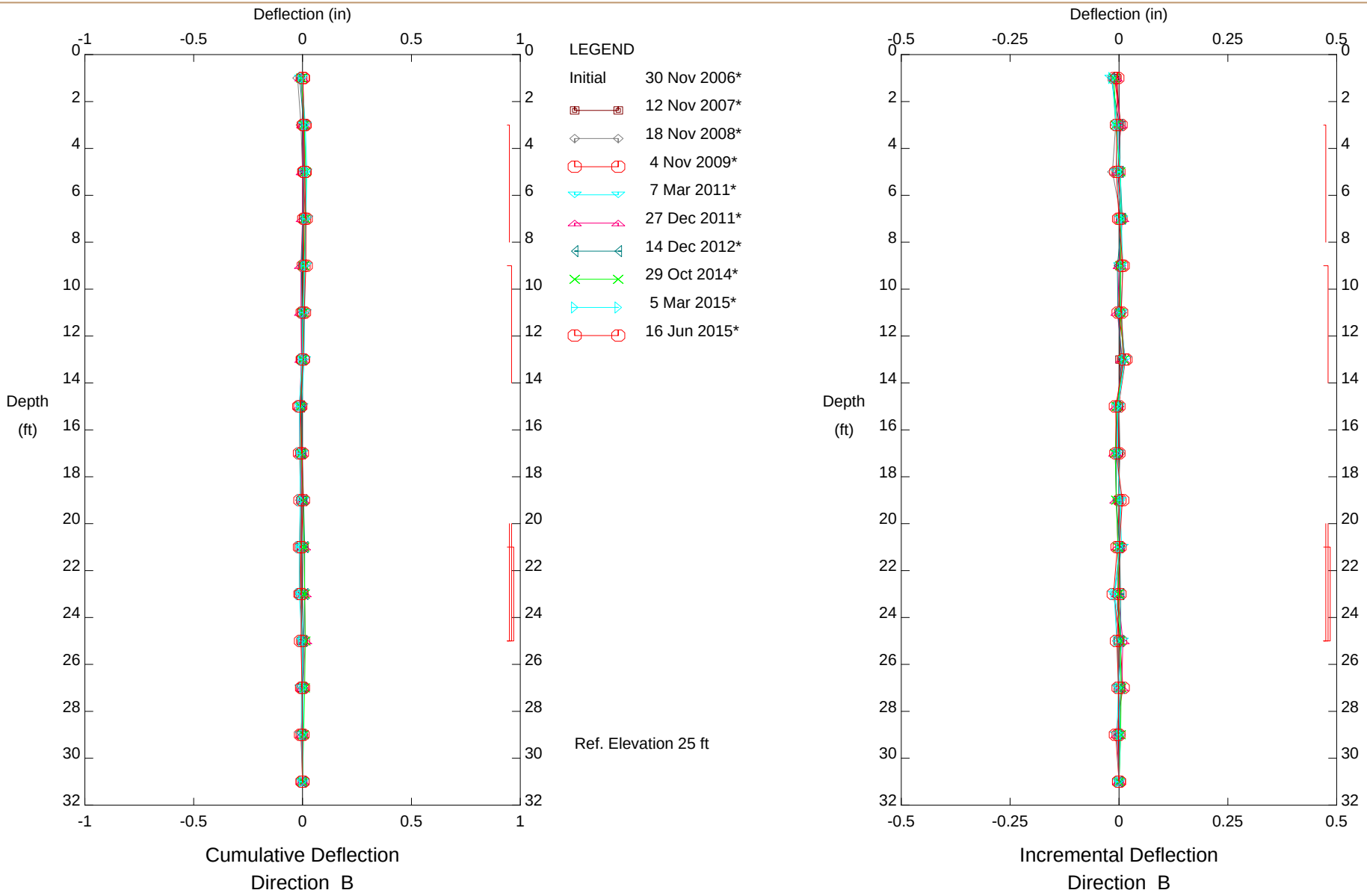


BIG ROCK MESA, Inclinometer SP-14

PCH REGION

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

PLATE D-4a

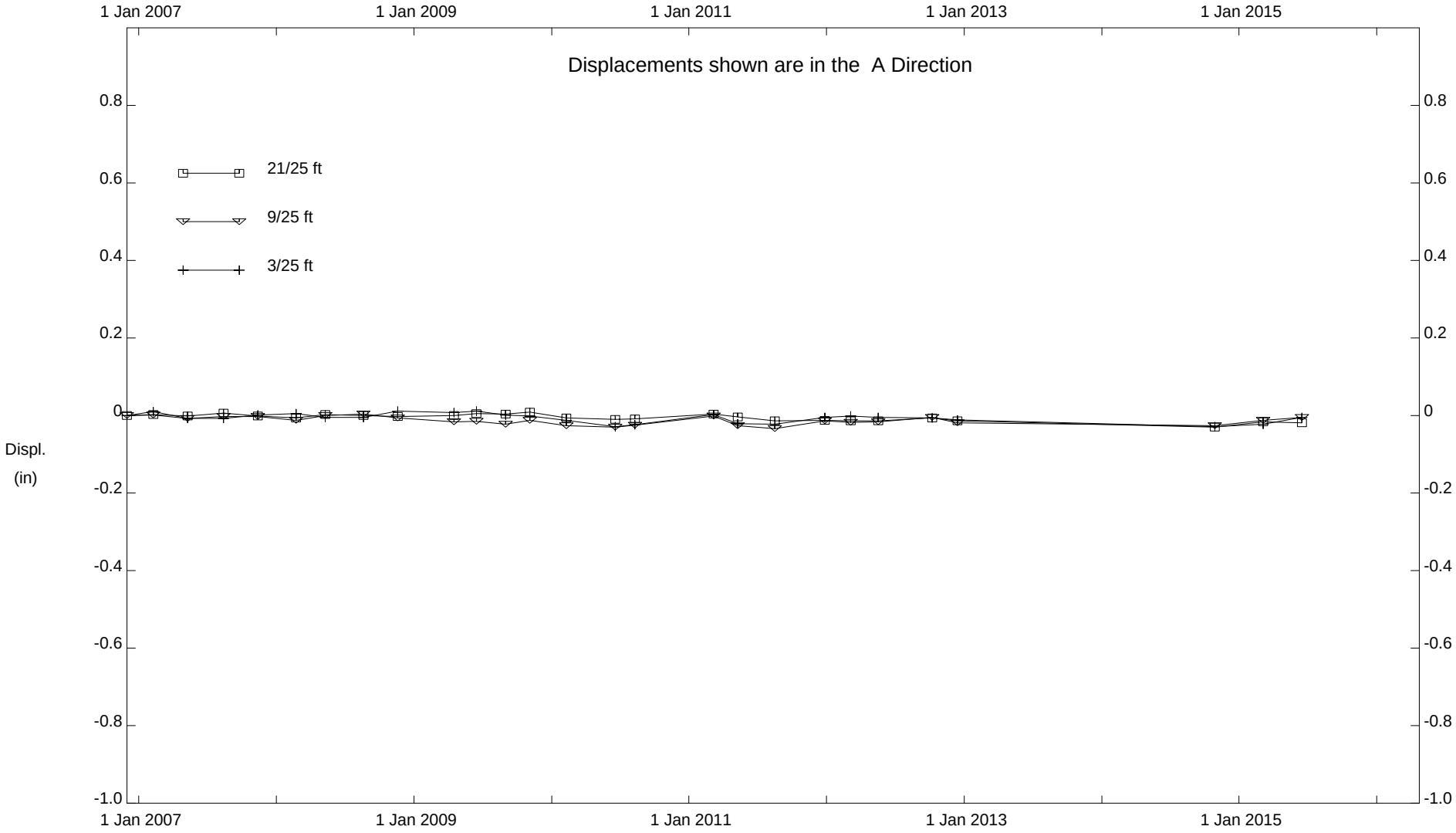


BIG ROCK MESA, Inclinometer SP-14

PCH REGION

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

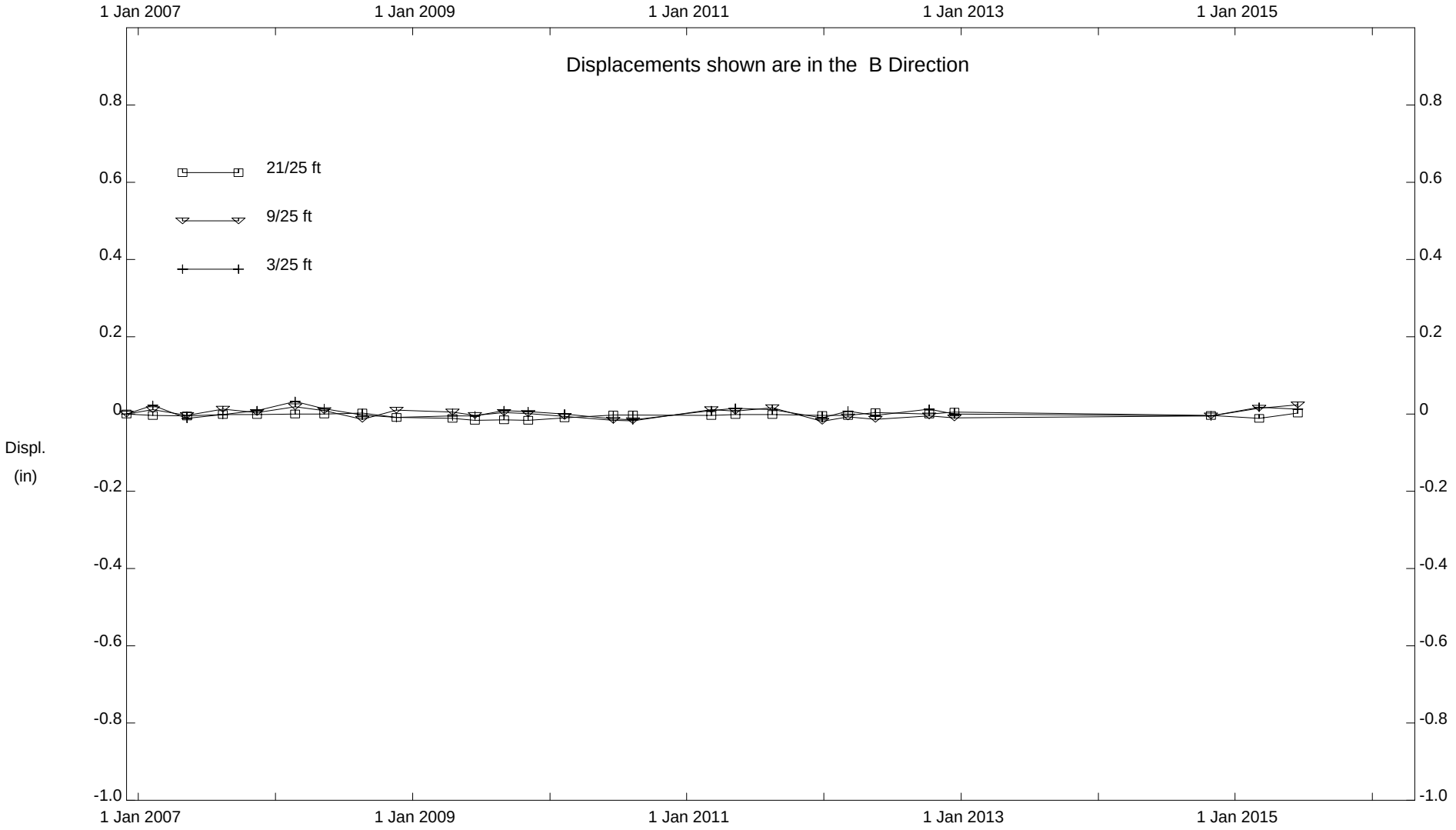
PLATE D-4b



BIG ROCK MESA, Inclinometer SP-14

PCH REGION

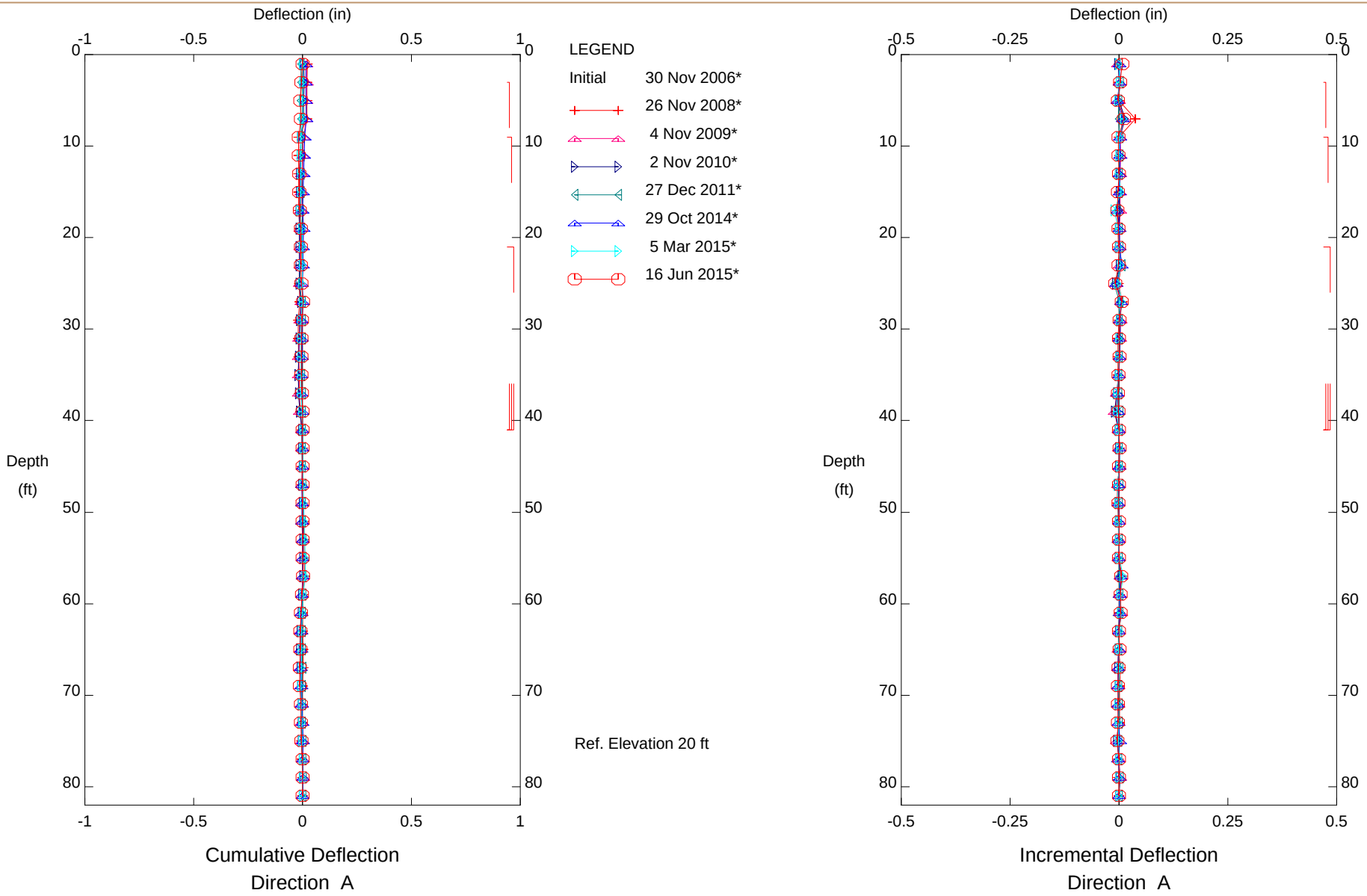
PLATE D-4c



BIG ROCK MESA, Inclinometer SP-14

PCH REGION

PLATE D-4d

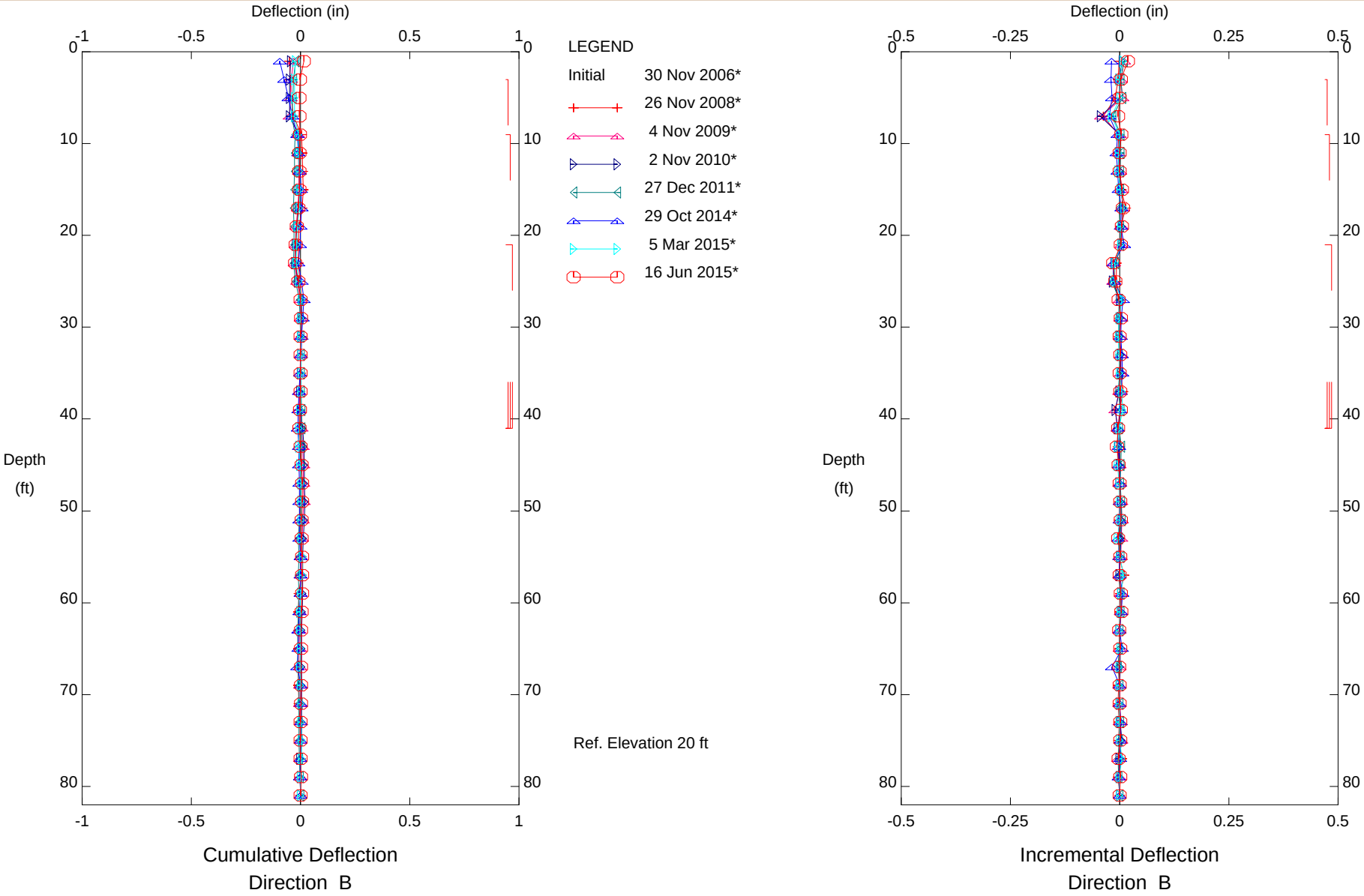


BIG ROCK MESA, Inclinometer SP-15

PCH REGION

PLATE D-5a

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

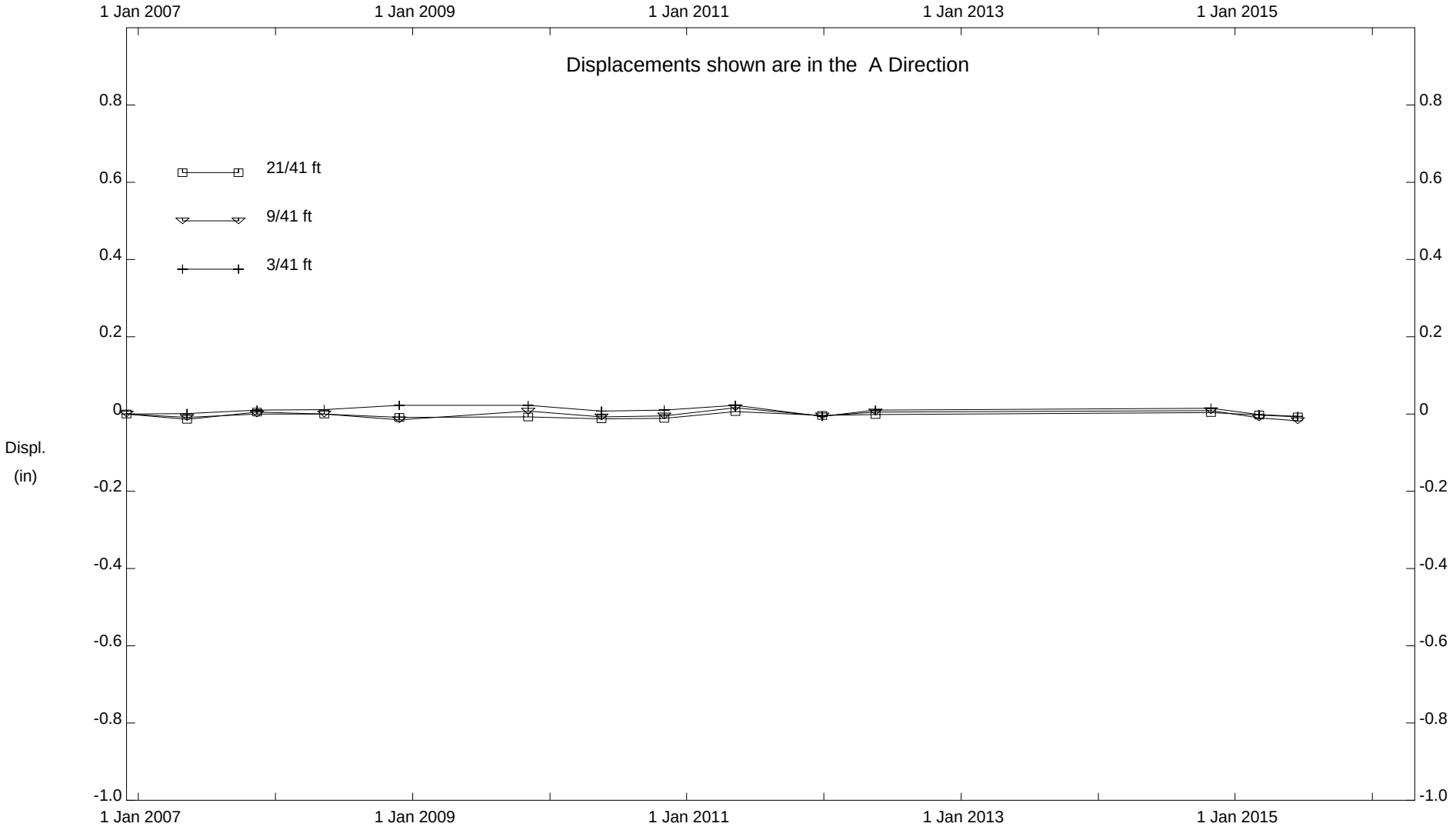


BIG ROCK MESA, Inclinometer SP-15

PCH REGION

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

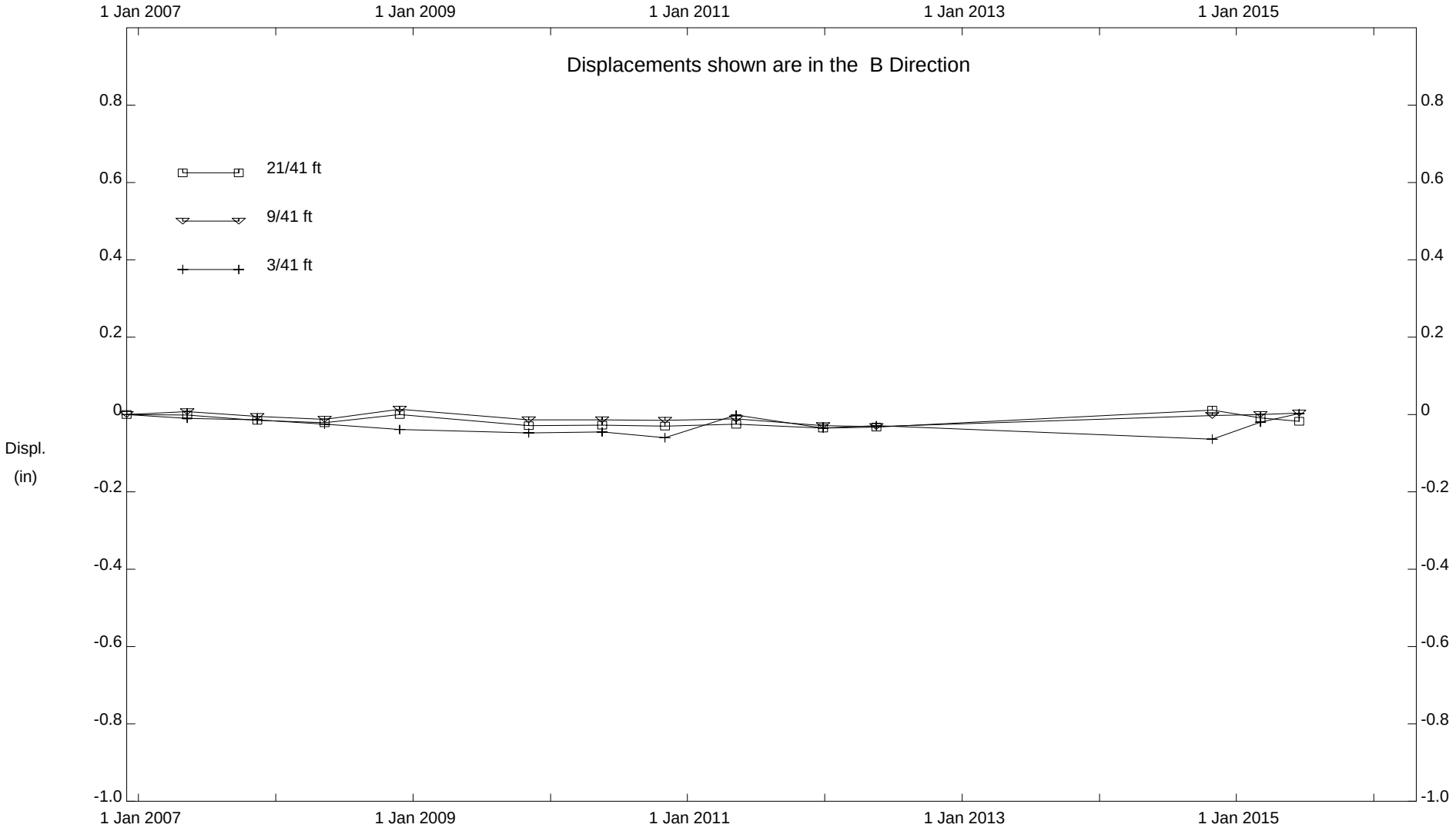
PLATE D-5b



BIG ROCK MESA, Inclinometer SP-15

PCH REGION

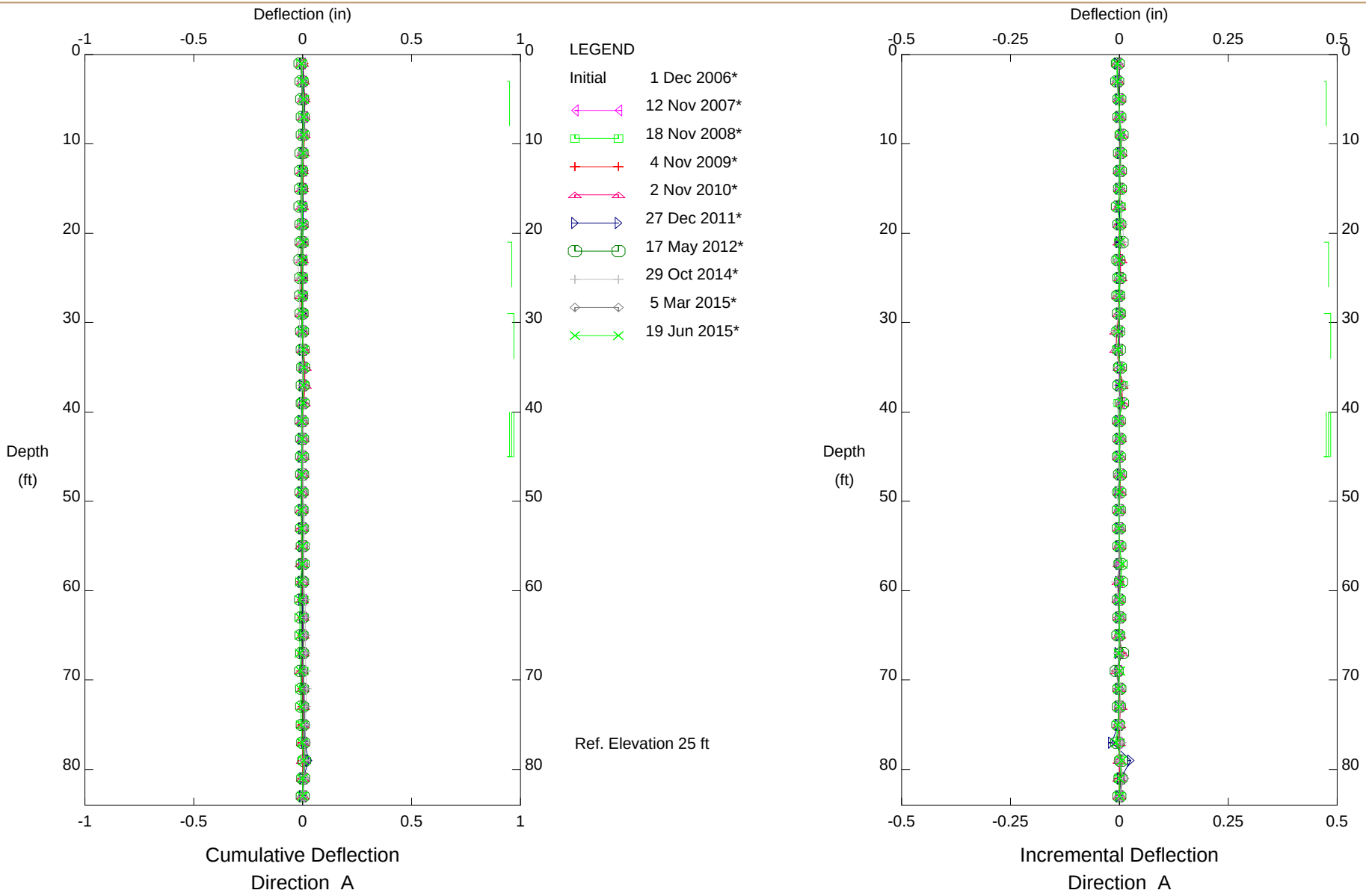
PLATE D-5c



BIG ROCK MESA, Inclinometer SP-15

PCH REGION

PLATE D-5d

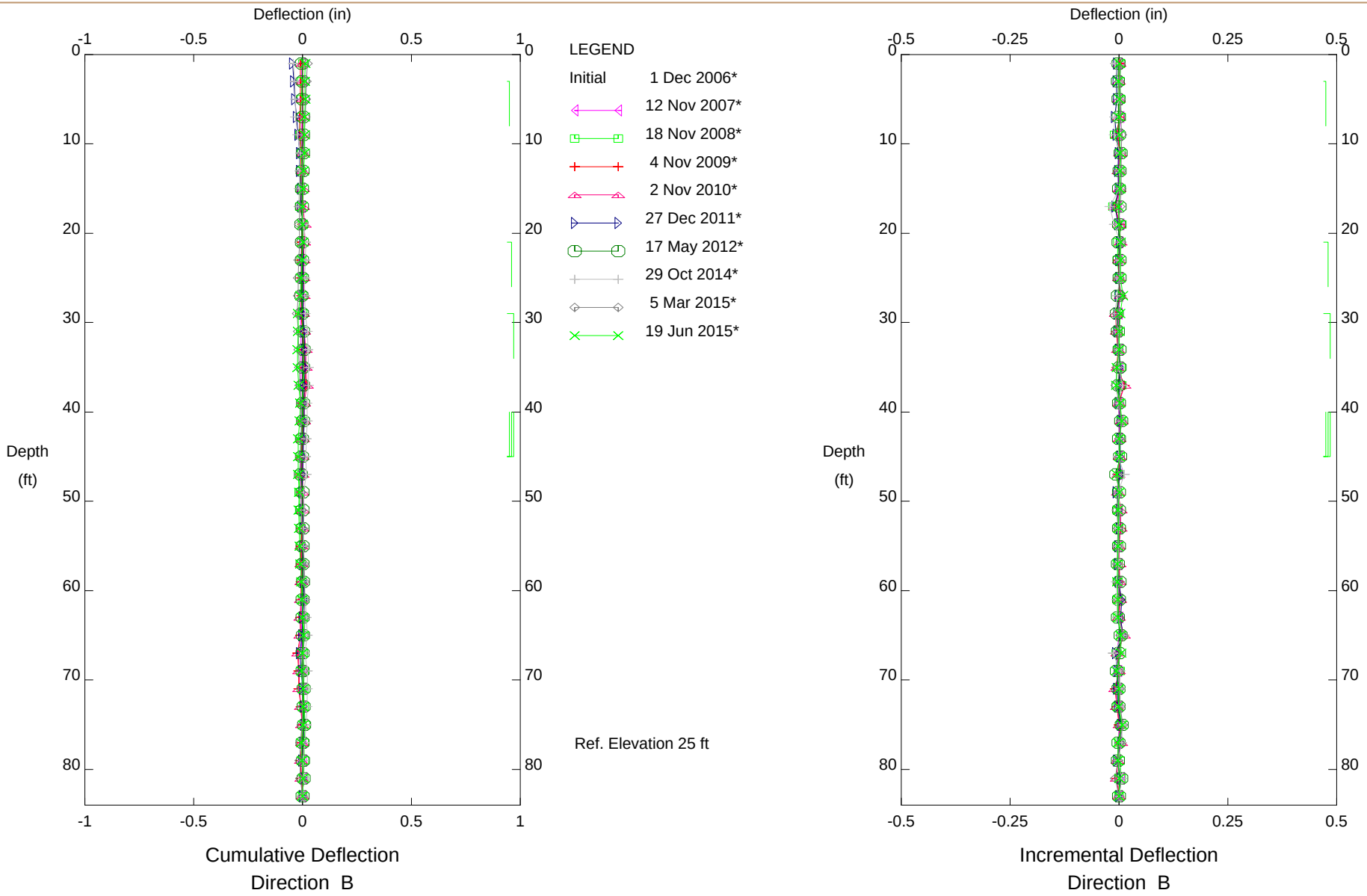


BIG ROCK MESA, Inclinometer SP-19

PCH REGION

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

PLATE D-6a

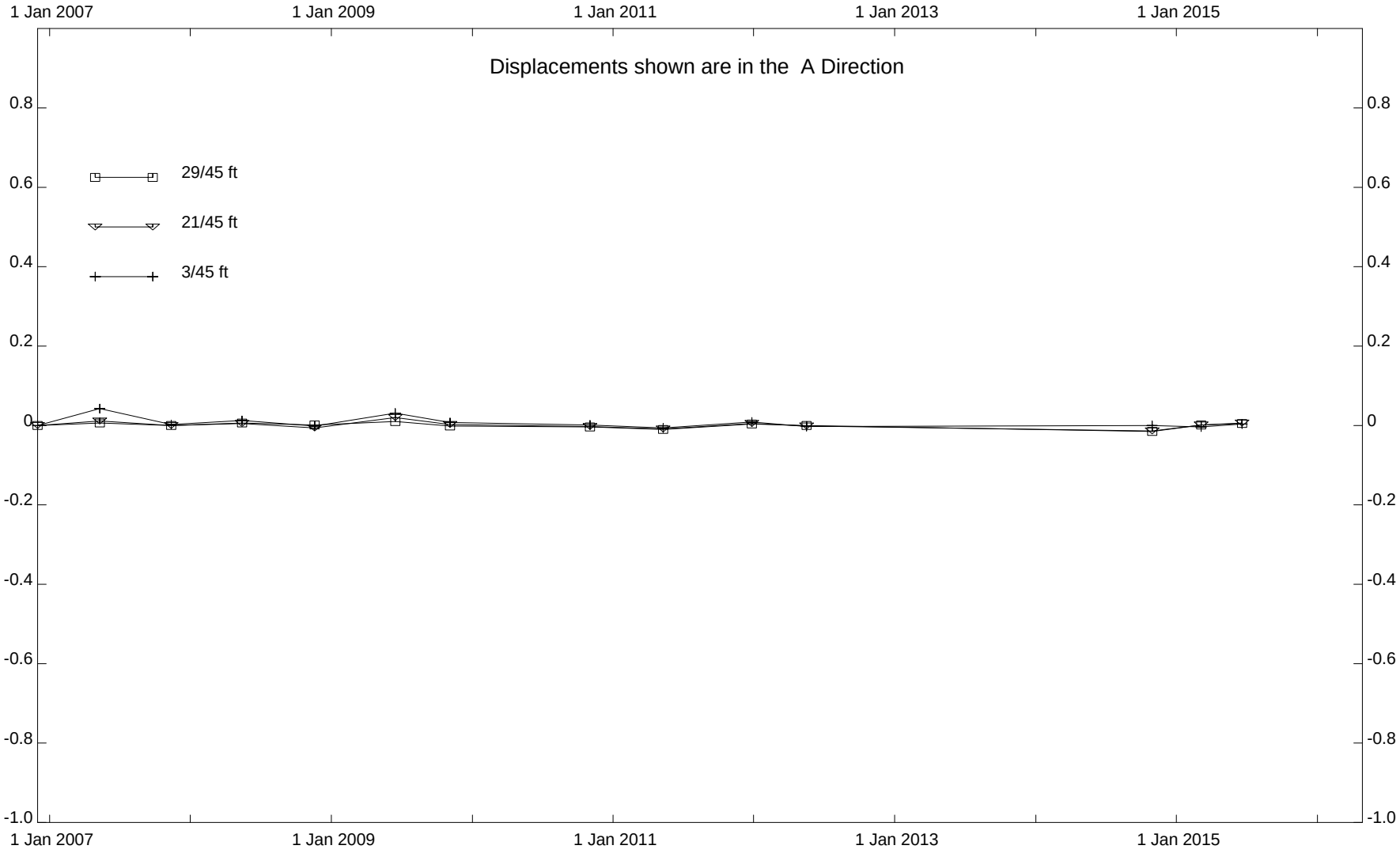


BIG ROCK MESA, Inclinometer SP-19

PCH REGION

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

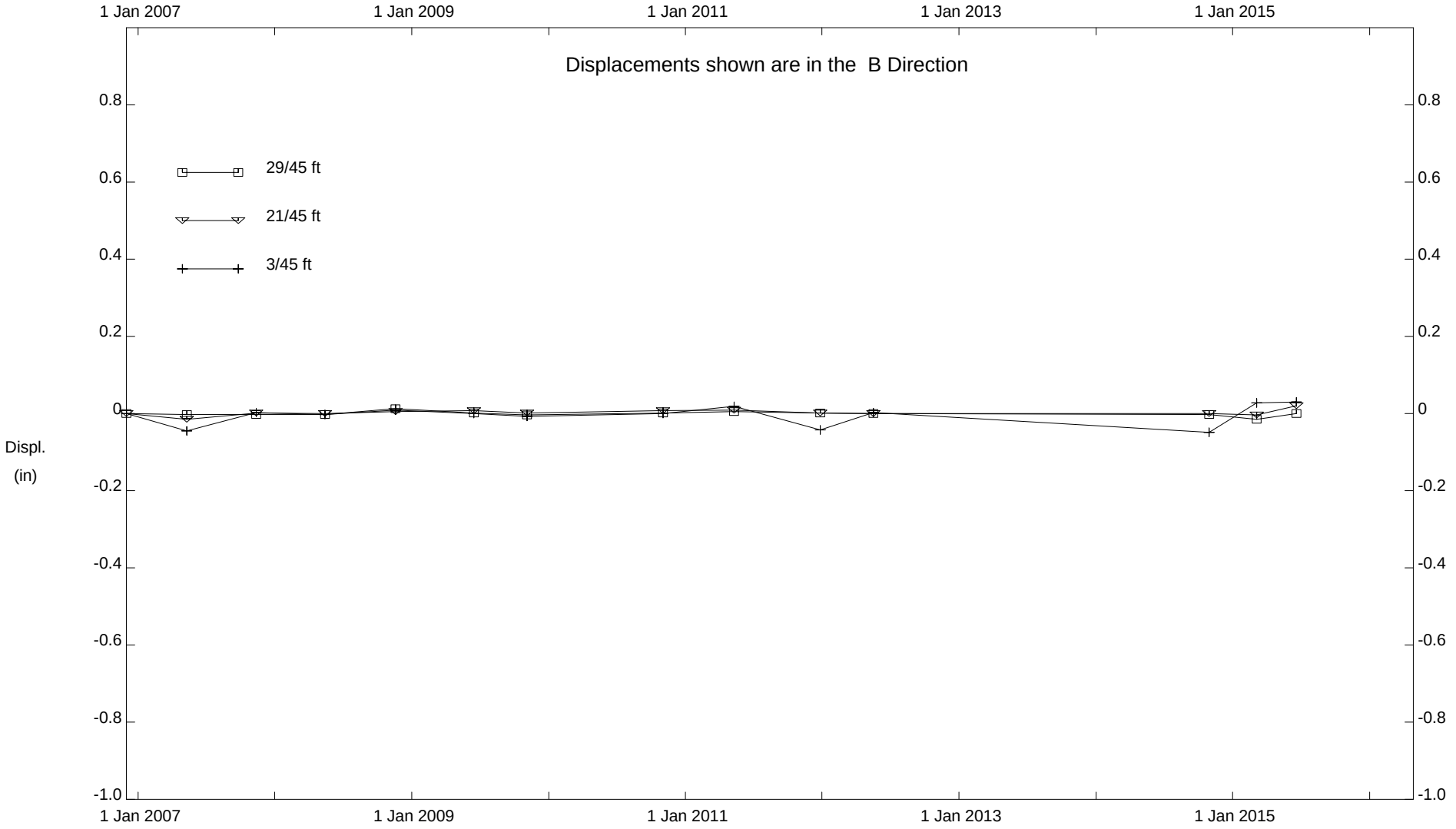
PLATE D-6b



BIG ROCK MESA, Inclinometer SP-19

PCH REGION

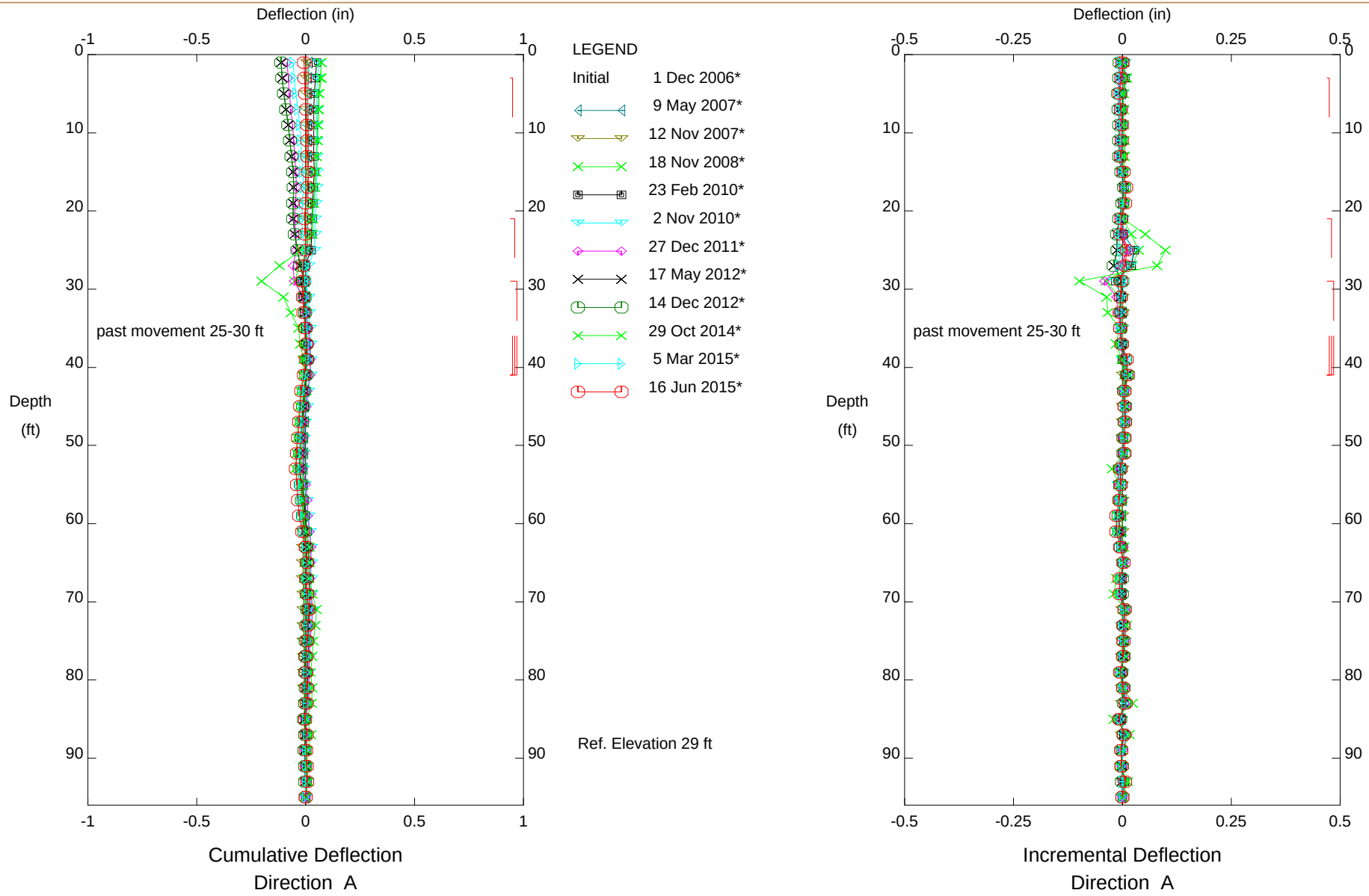
PLATE D-6c



BIG ROCK MESA, Inclinometer SP-19

PCH REGION

PLATE D-6d

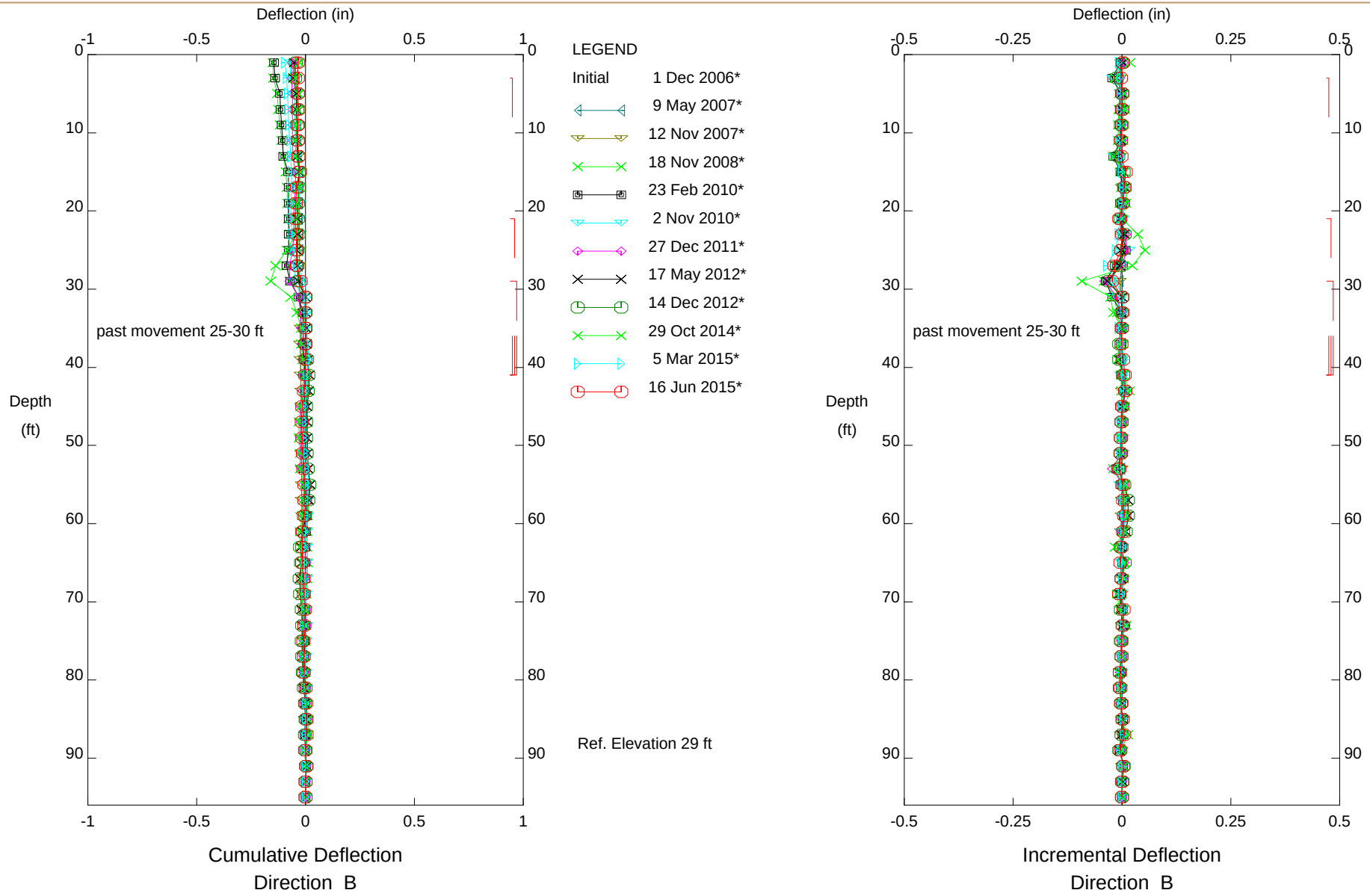


BIG ROCK MESA, Inclinometer SP-27A

PCH REGION

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

PLATE D-7a

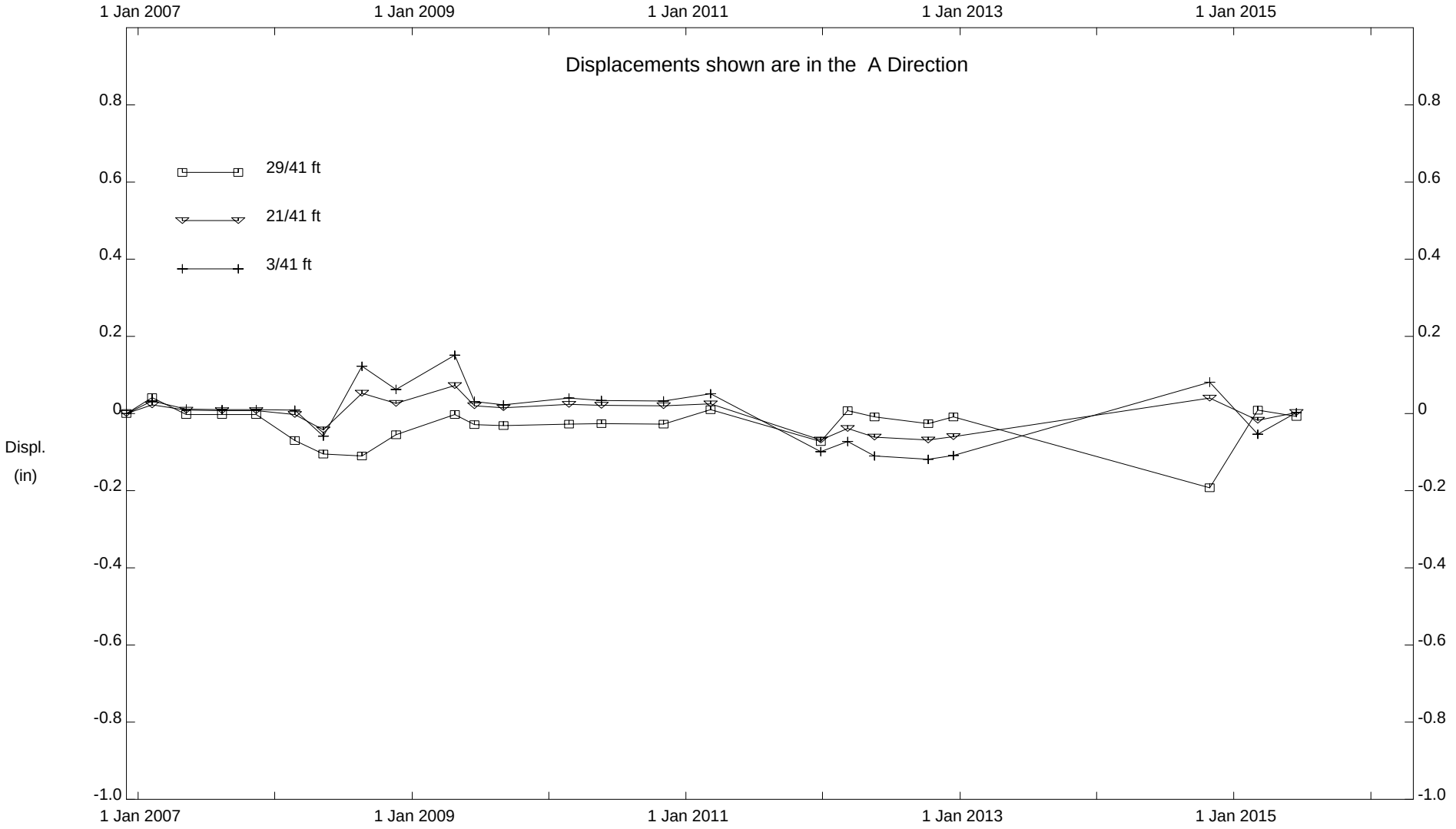


BIG ROCK MESA, Inclinometer SP-27A

PCH REGION

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

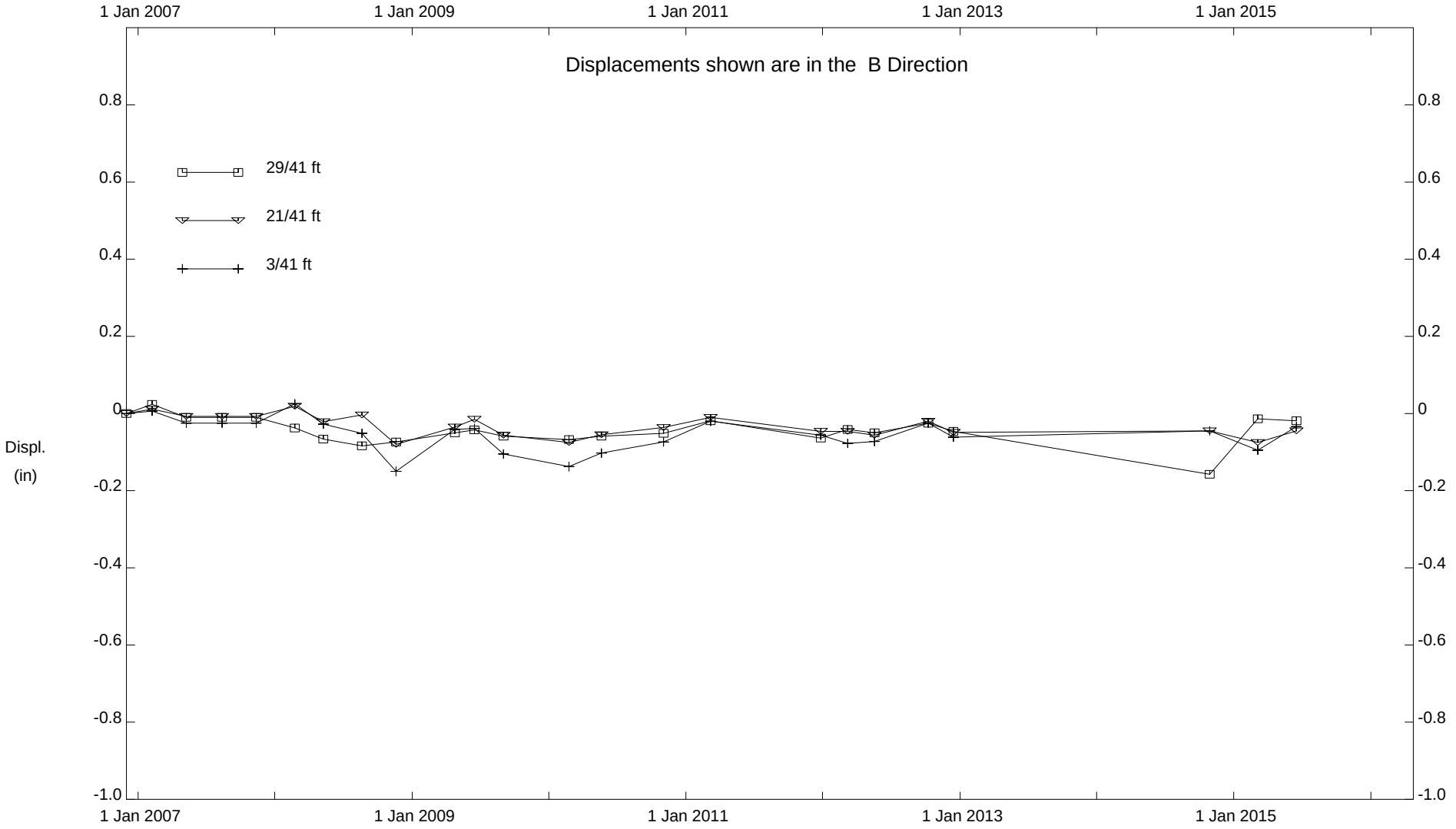
PLATE D-7b



BIG ROCK MESA, Inclinometer SP-27A

PCH REGION

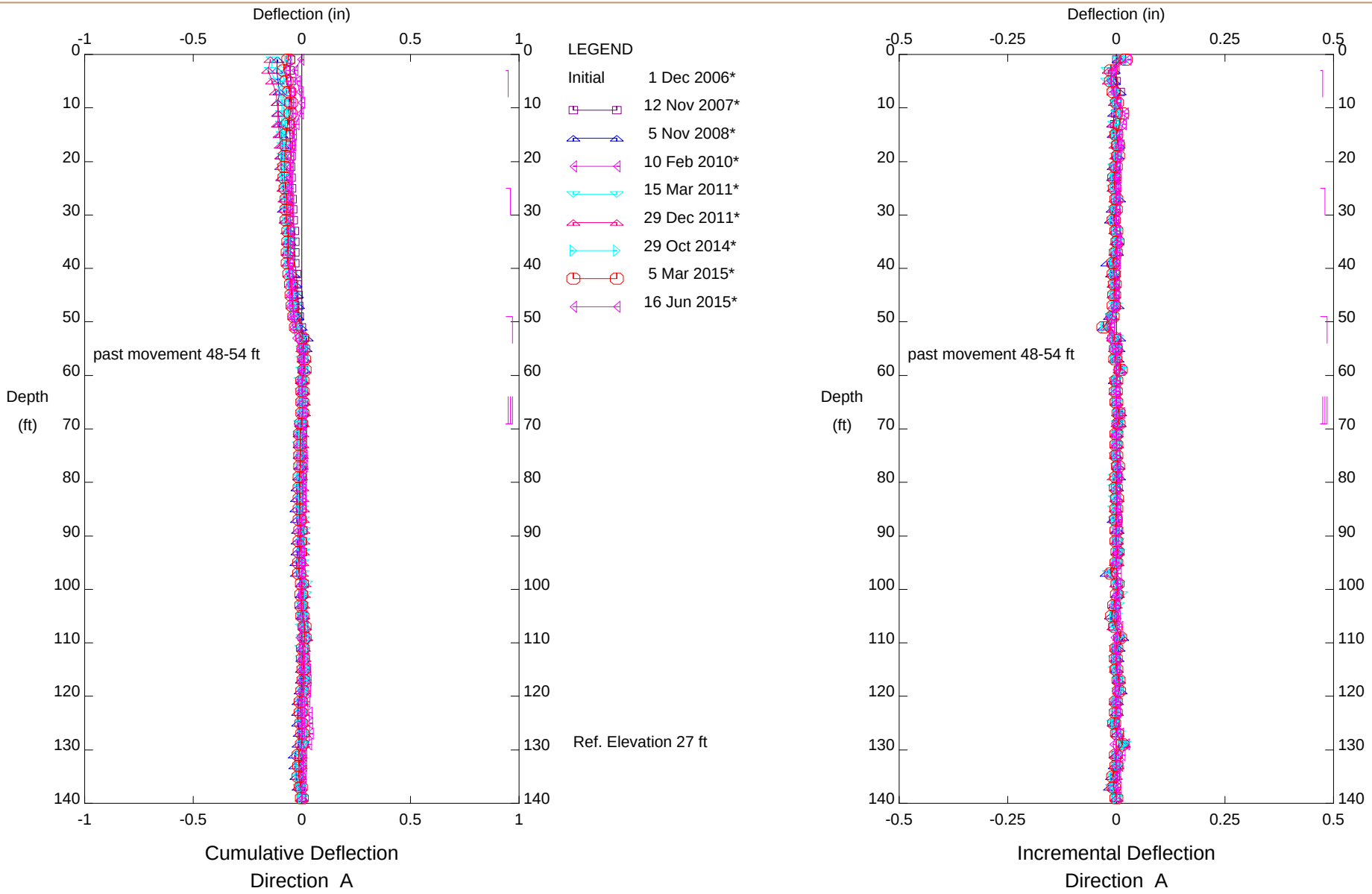
PLATE D-7c



BIG ROCK MESA, Inclinometer SP-27A

PCH REGION

PLATE D-7d



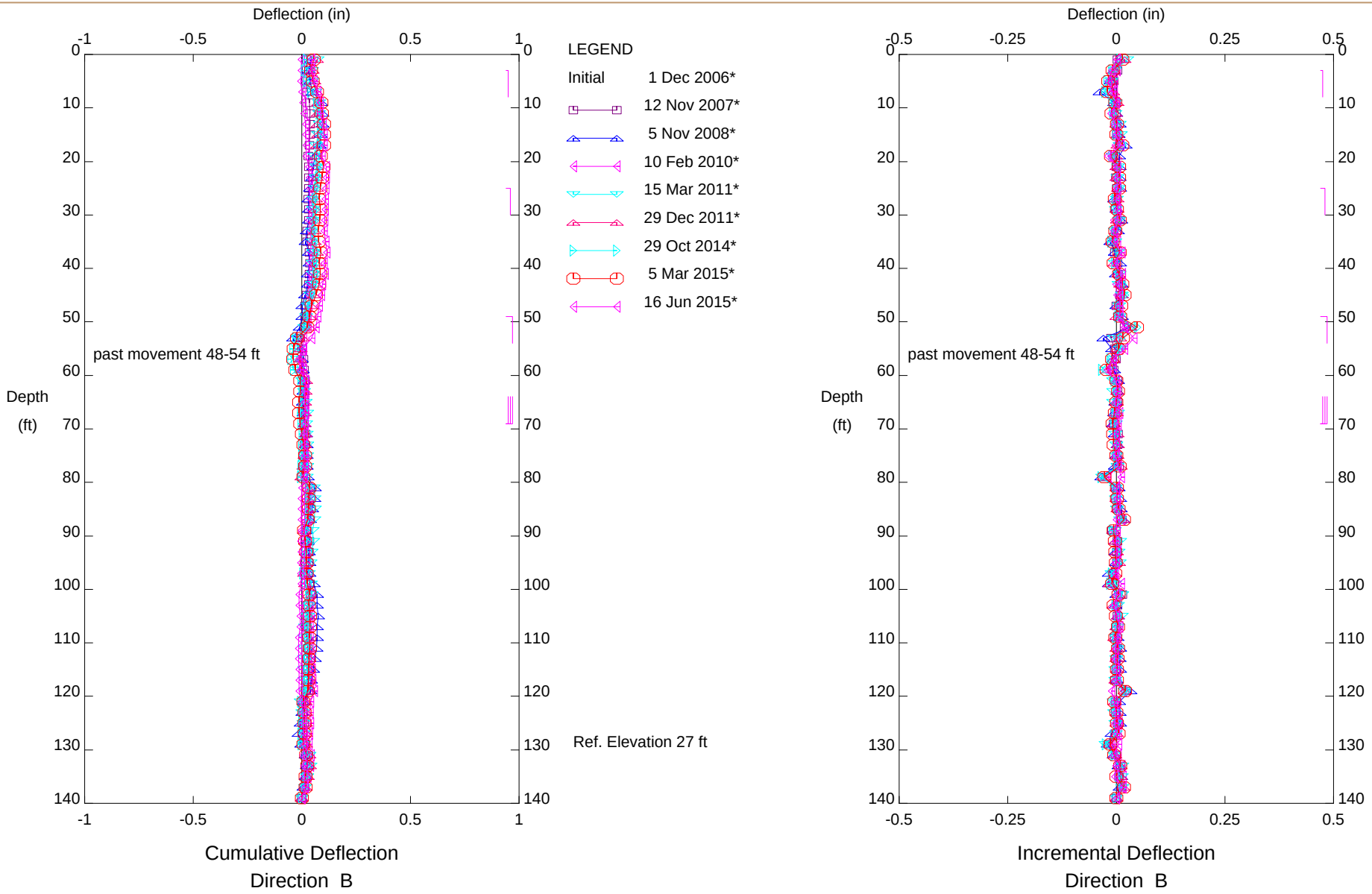
BIG ROCK MESA, Inclinometer SP-29

PCH REGION

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

PLATE D-8a

Fugro Consultants, Inc. - Ventura, CA



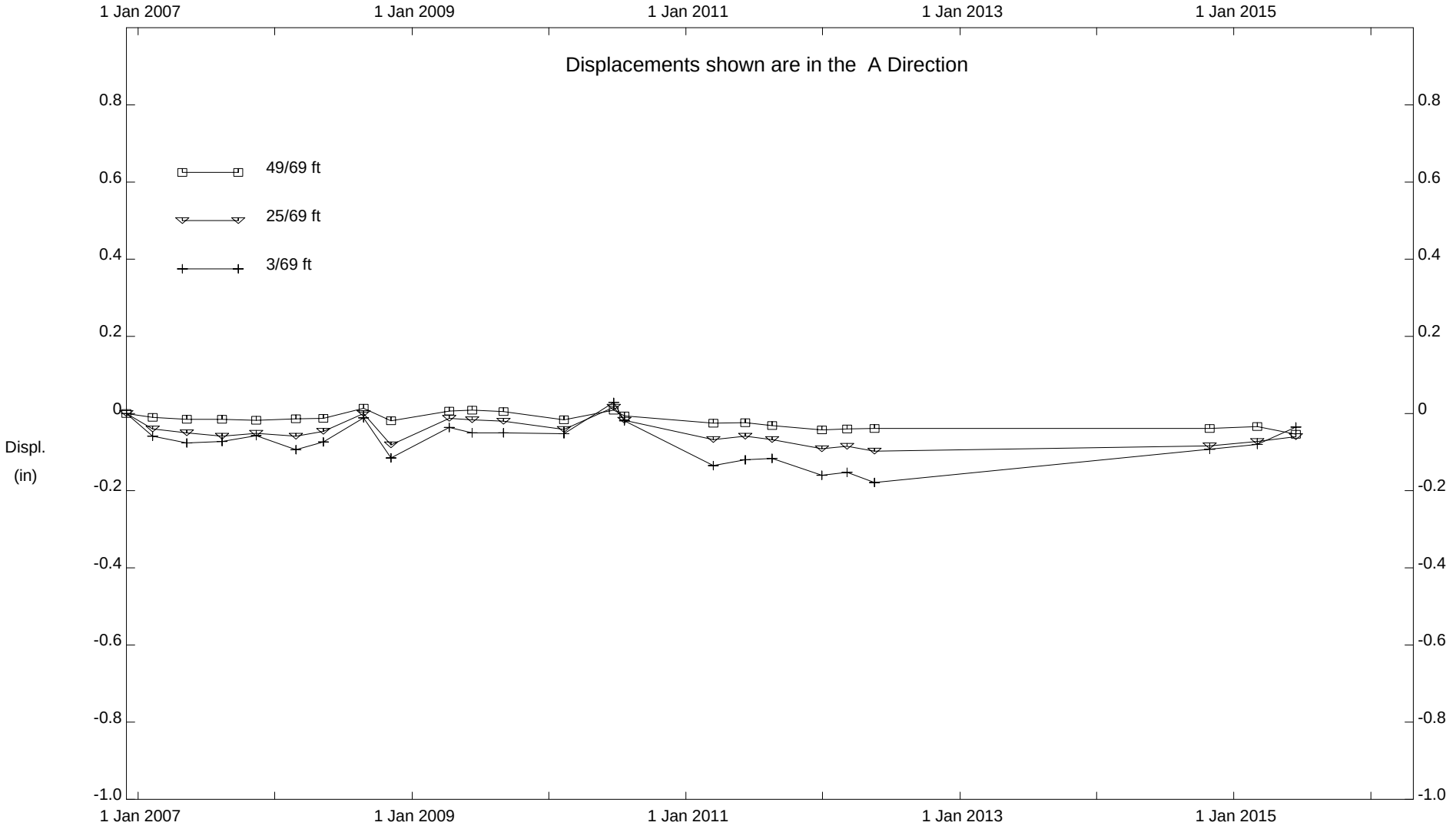
BIG ROCK MESA, Inclinometer SP-29

PCH REGION

PLATE D-8b

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

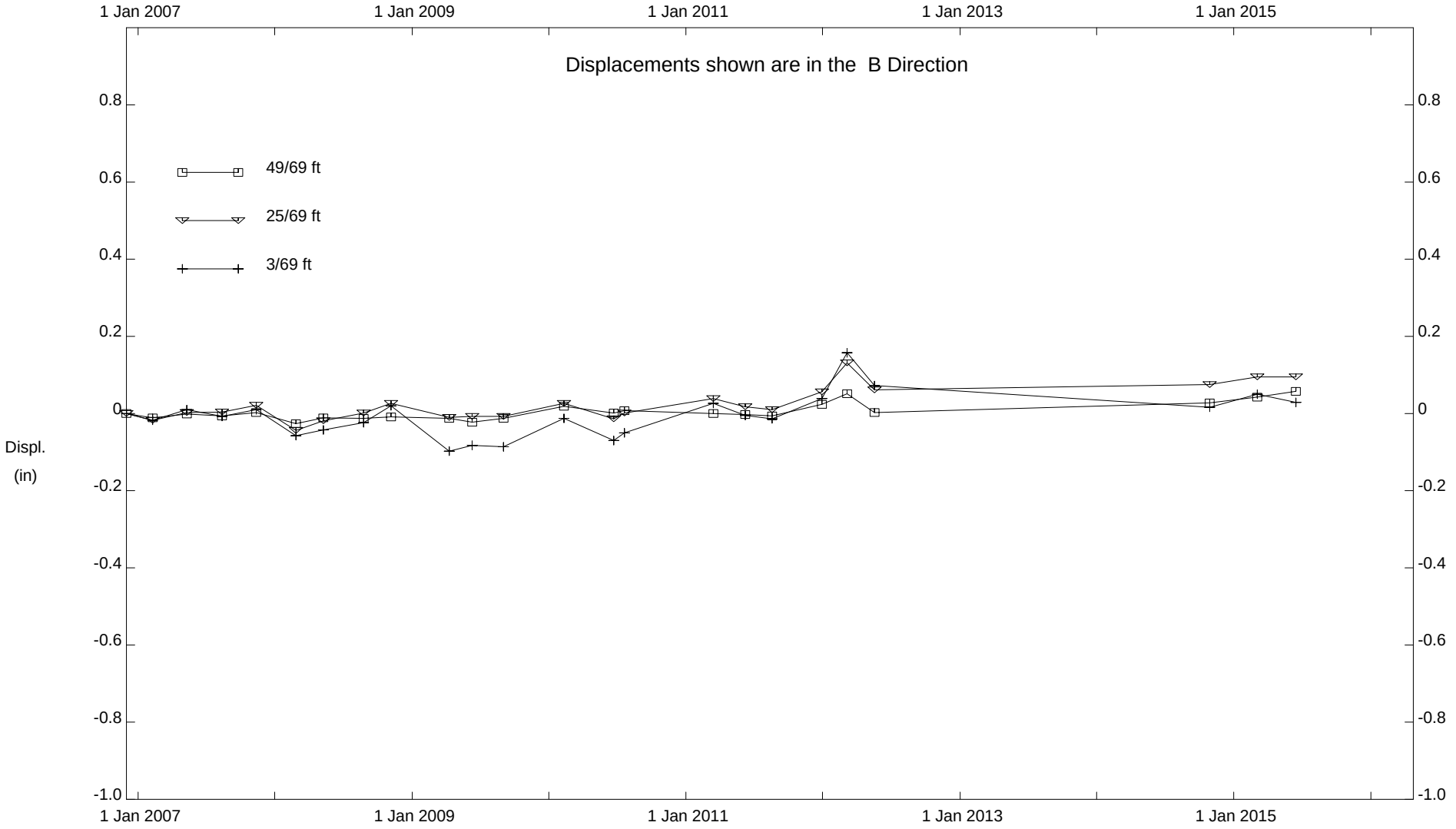
C:\CADFiles\MalibuInclinometers\Big Rock GTL\BRM 2014-2015 Annual\SP29.gtl



BIG ROCK MESA, Inclinometer SP-29

PCH REGION

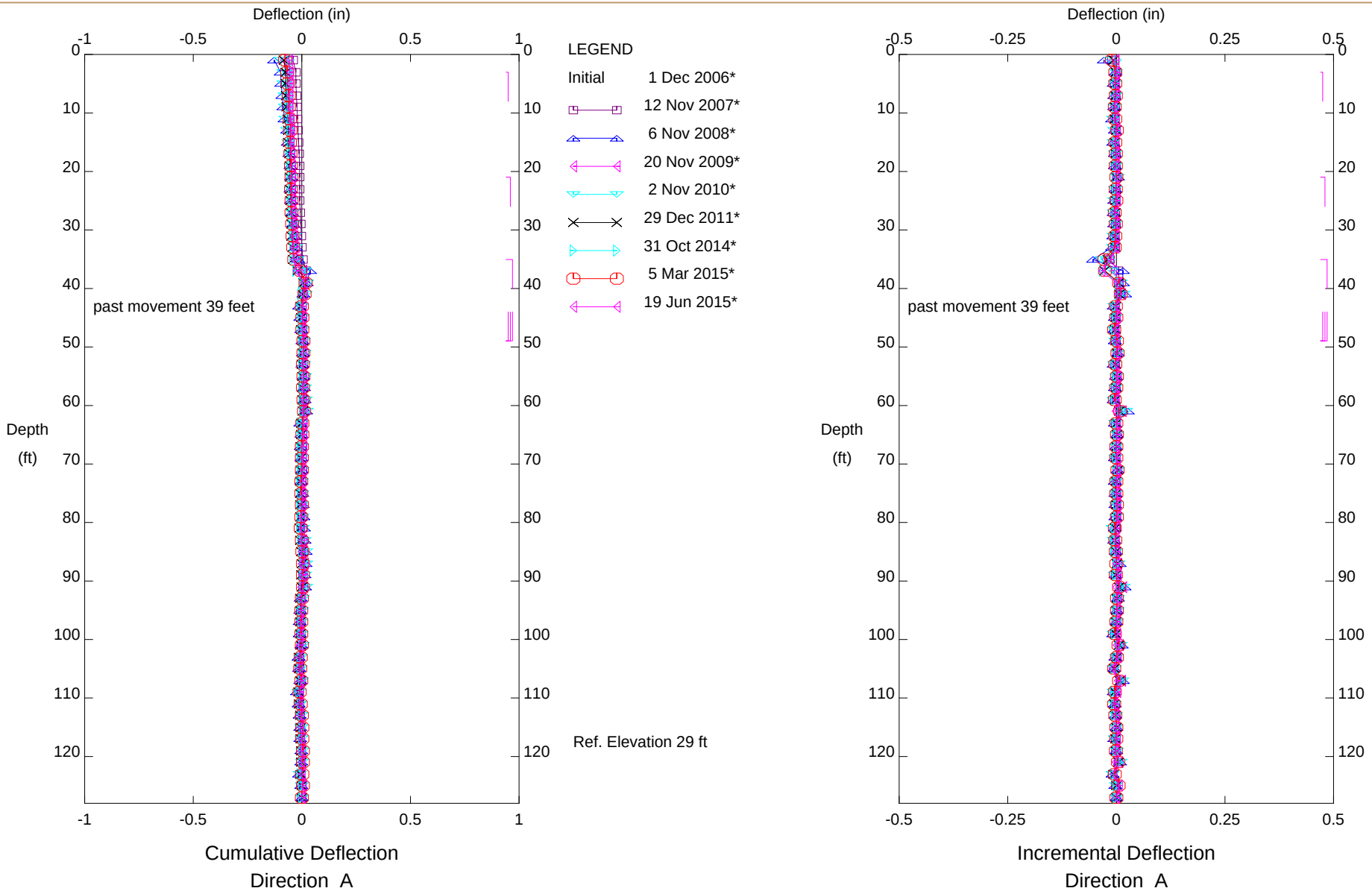
PLATE D-8c



BIG ROCK MESA, Inclinometer SP-29

PCH REGION

PLATE D-8d

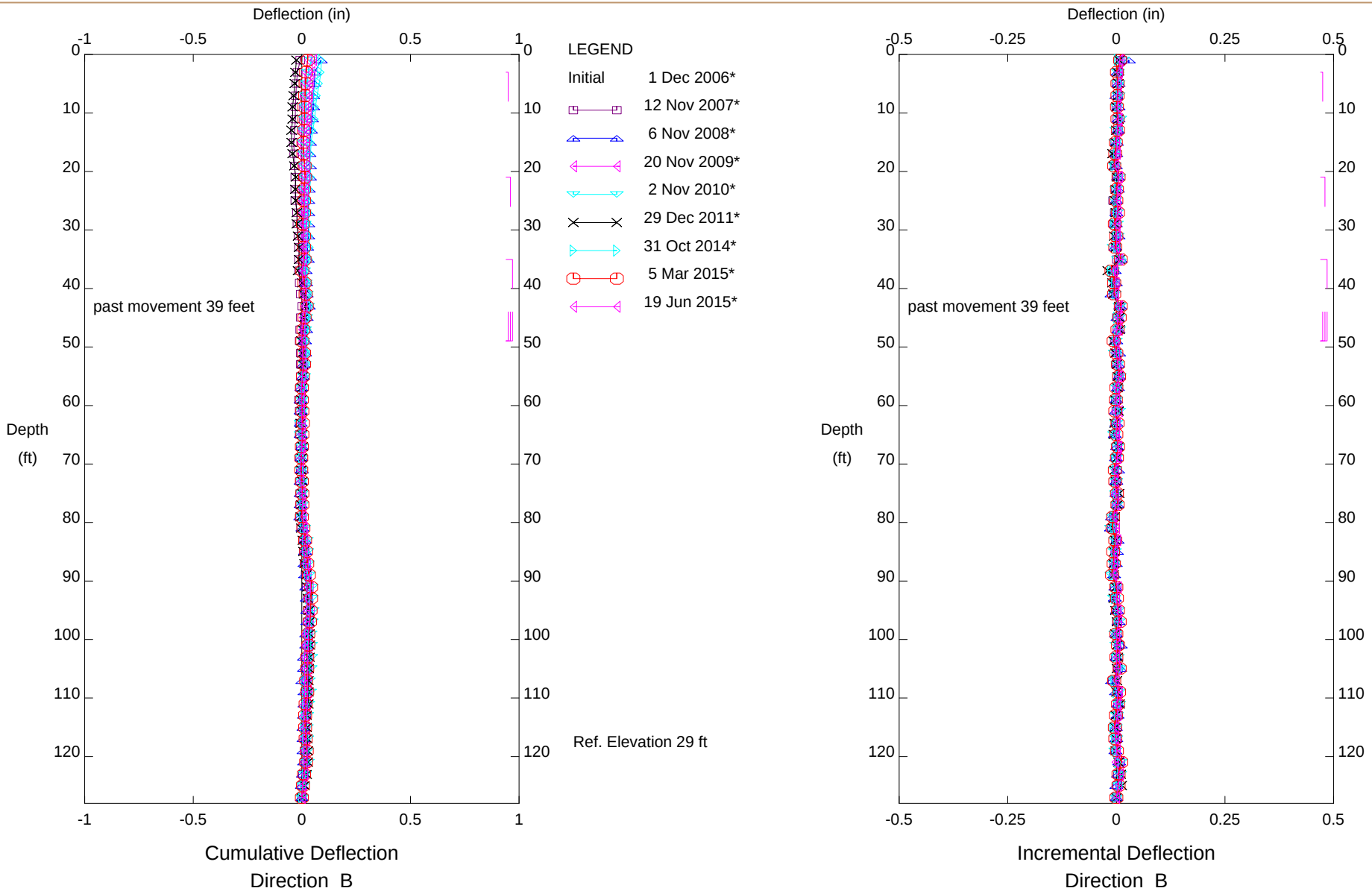


BIG ROCK MESA, Inclinometer SP-30

PCH REGION

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

PLATE D-9a

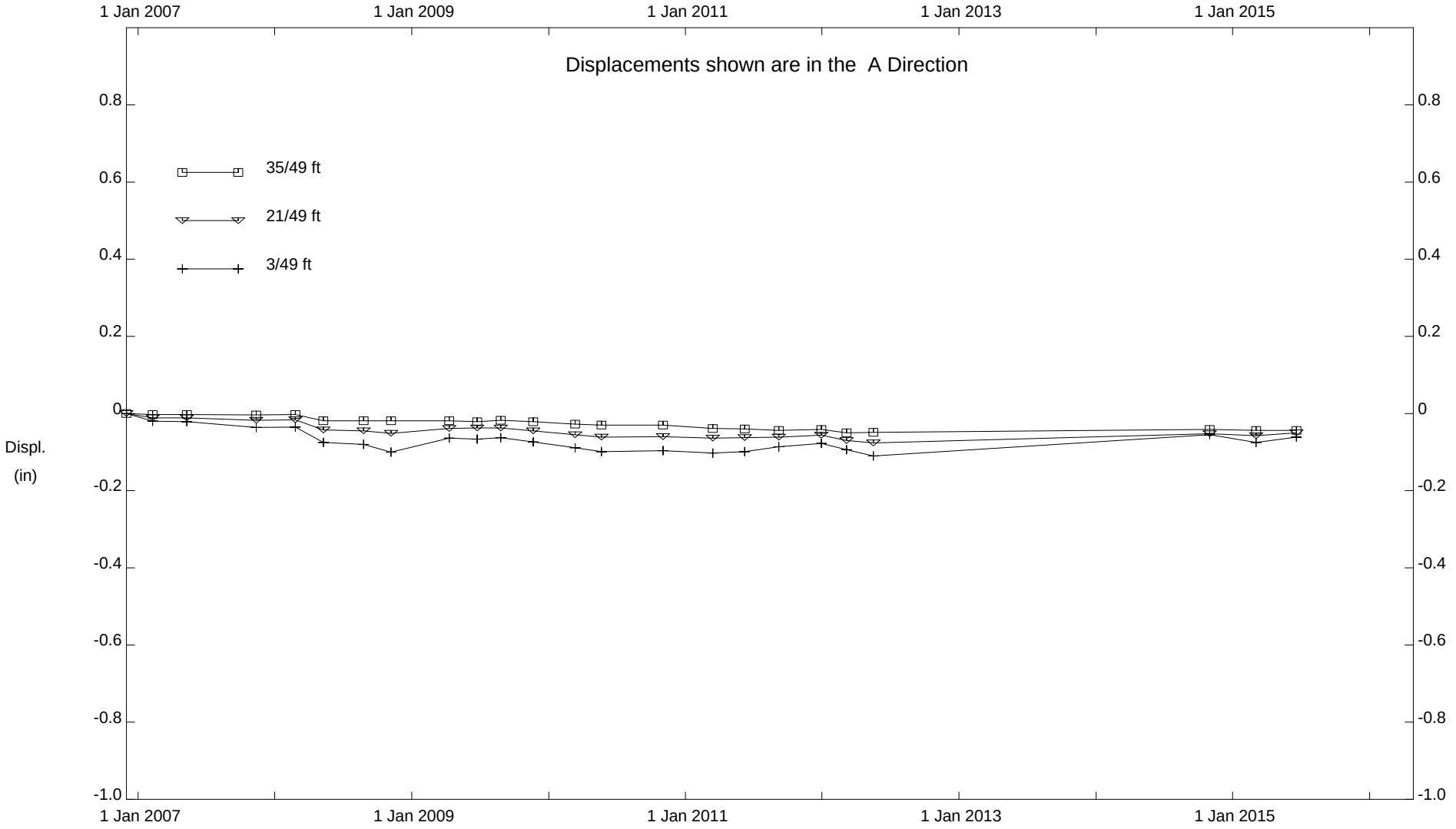


BIG ROCK MESA, Inclinometer SP-30

PCH REGION

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

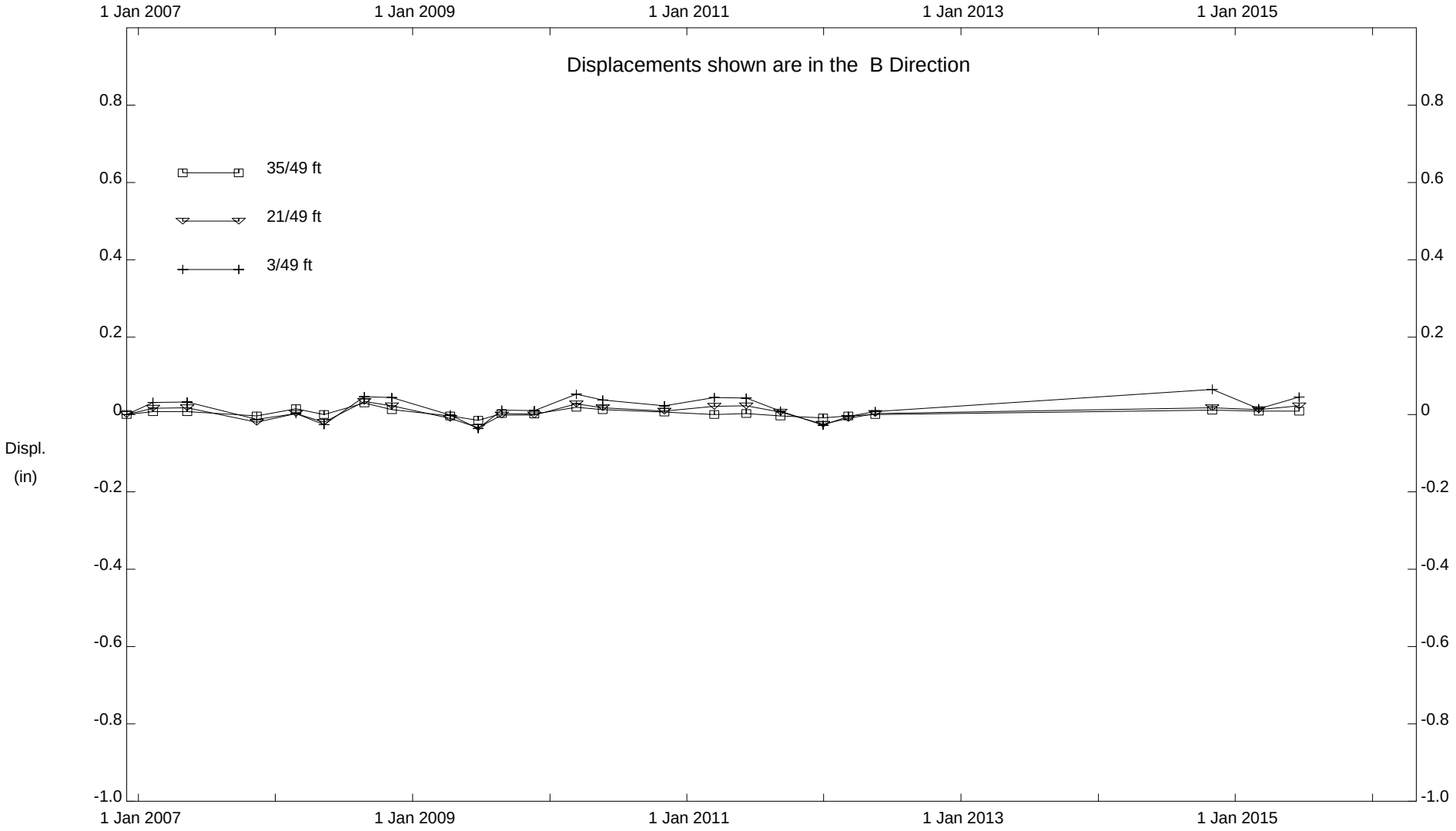
PLATE D-9b



BIG ROCK MESA, Inclinometer SP-30

PCH REGION

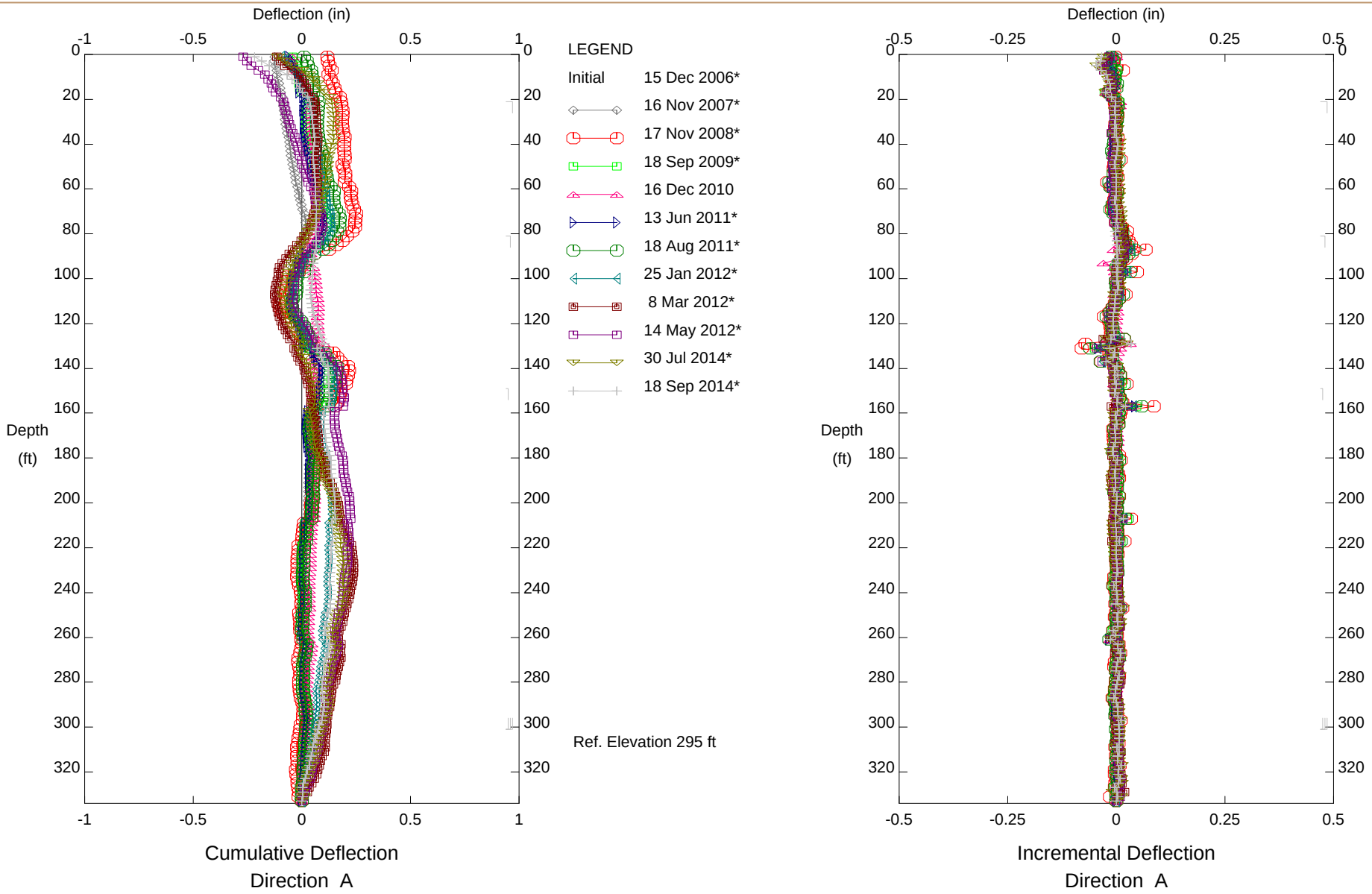
PLATE D-9c



BIG ROCK MESA, Inclinometer SP-30

PCH REGION

PLATE D-9d

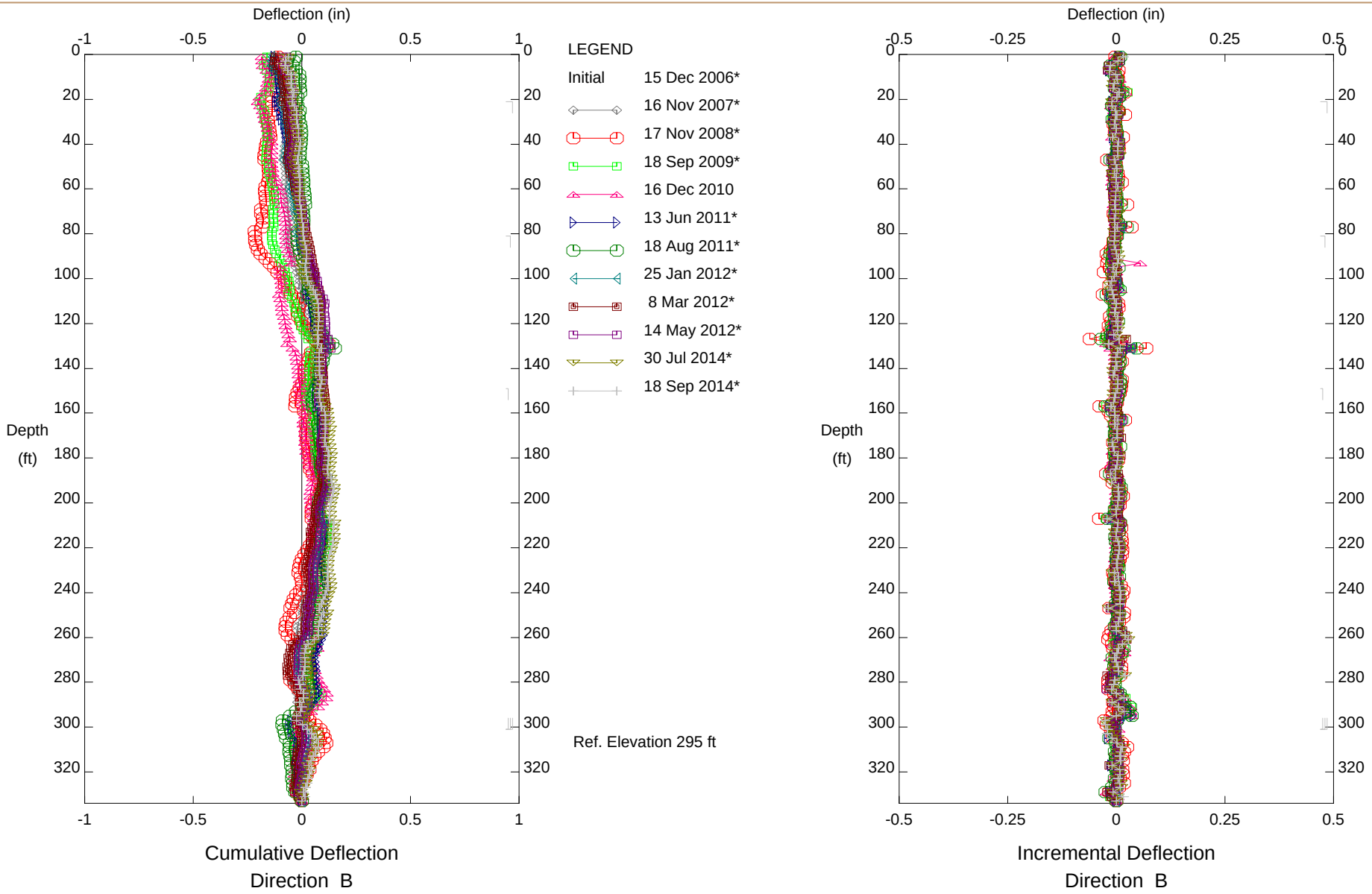


BIG ROCK MESA, Inclinometer SP-10

BLUFF REGION

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

PLATE D-10a

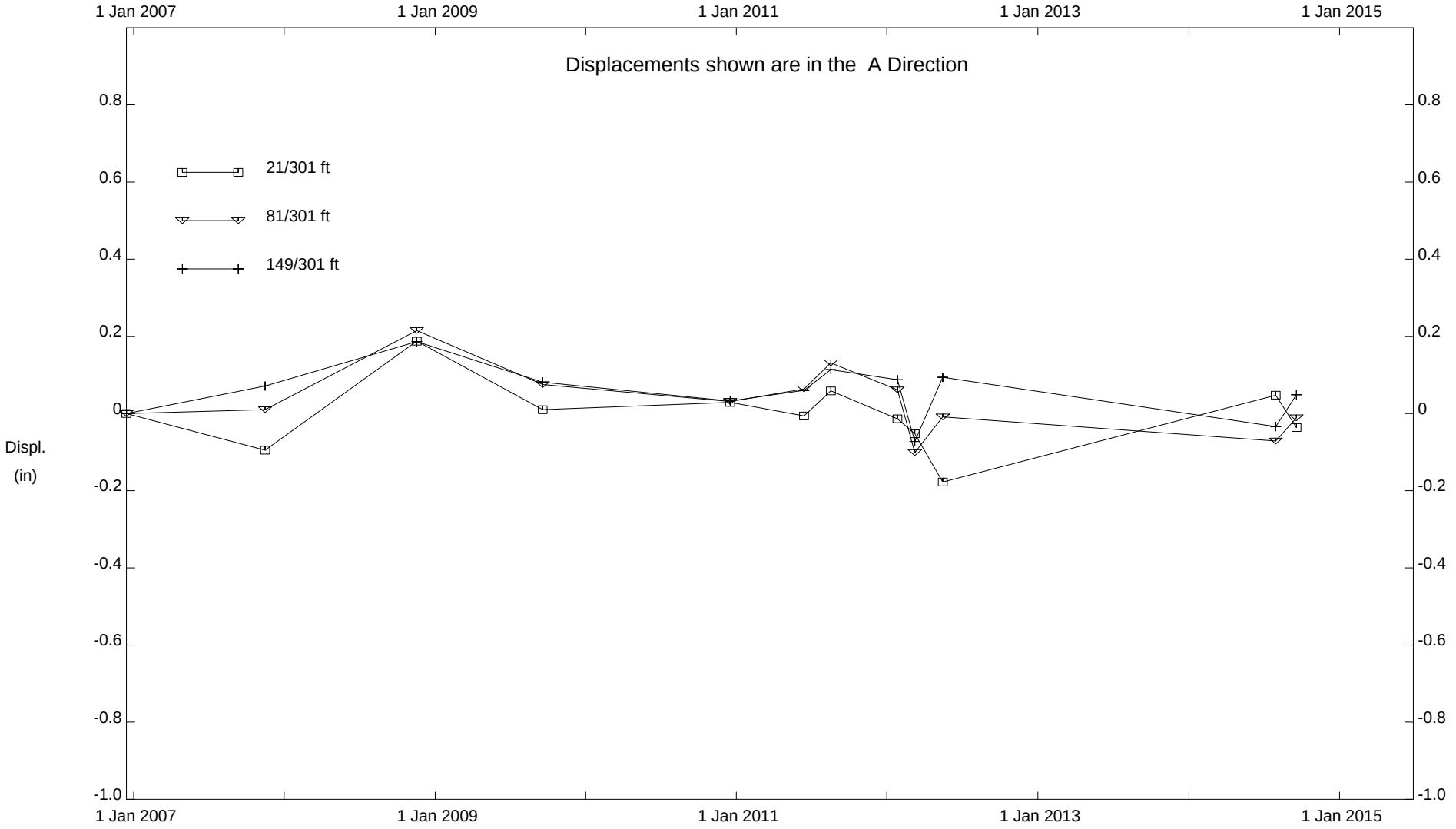


BIG ROCK MESA, Inclinometer SP-10

BLUFF REGION

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

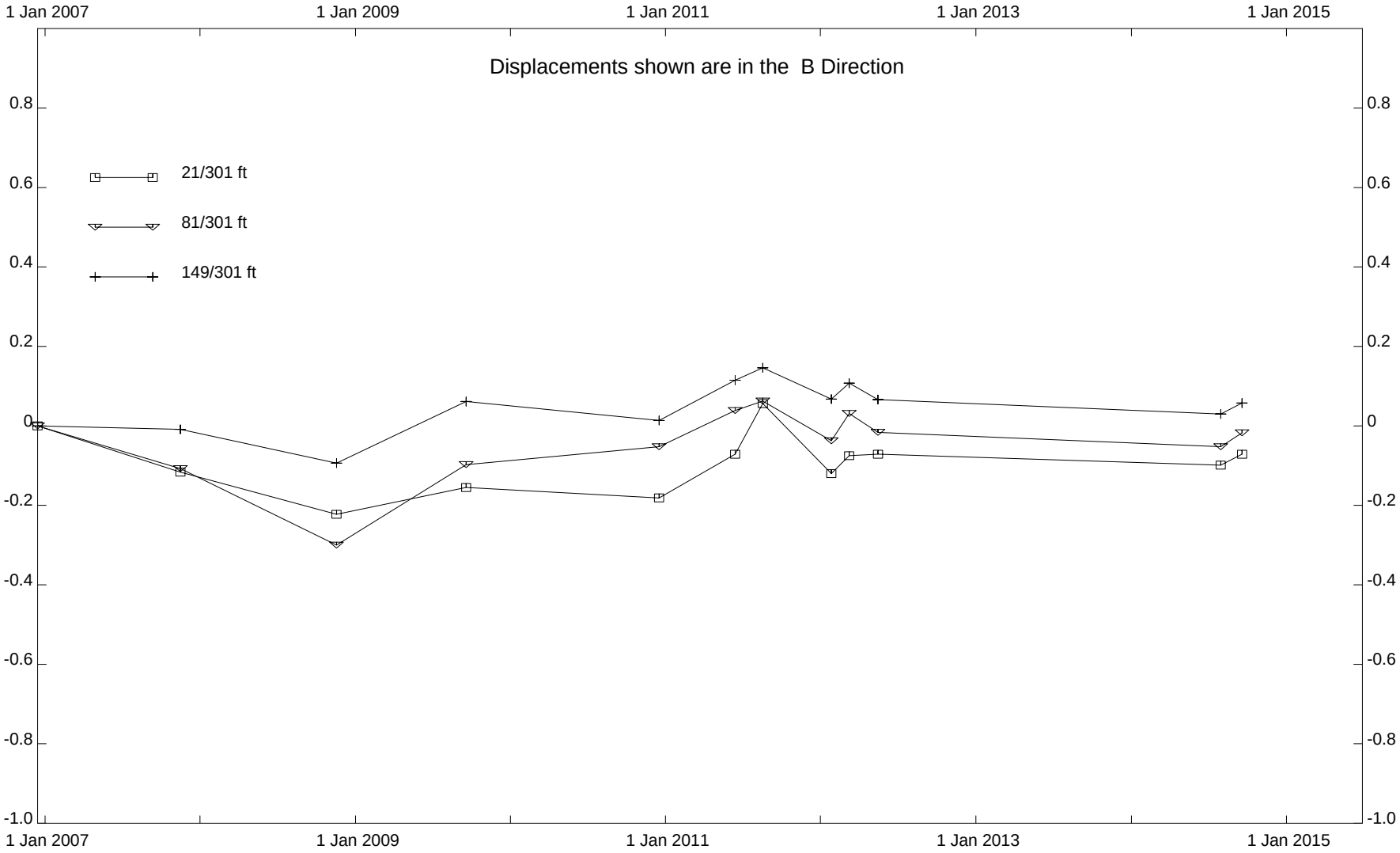
PLATE D-10b



BIG ROCK MESA, Inclinometer SP-10

BLUFF REGION

PLATE D-10c

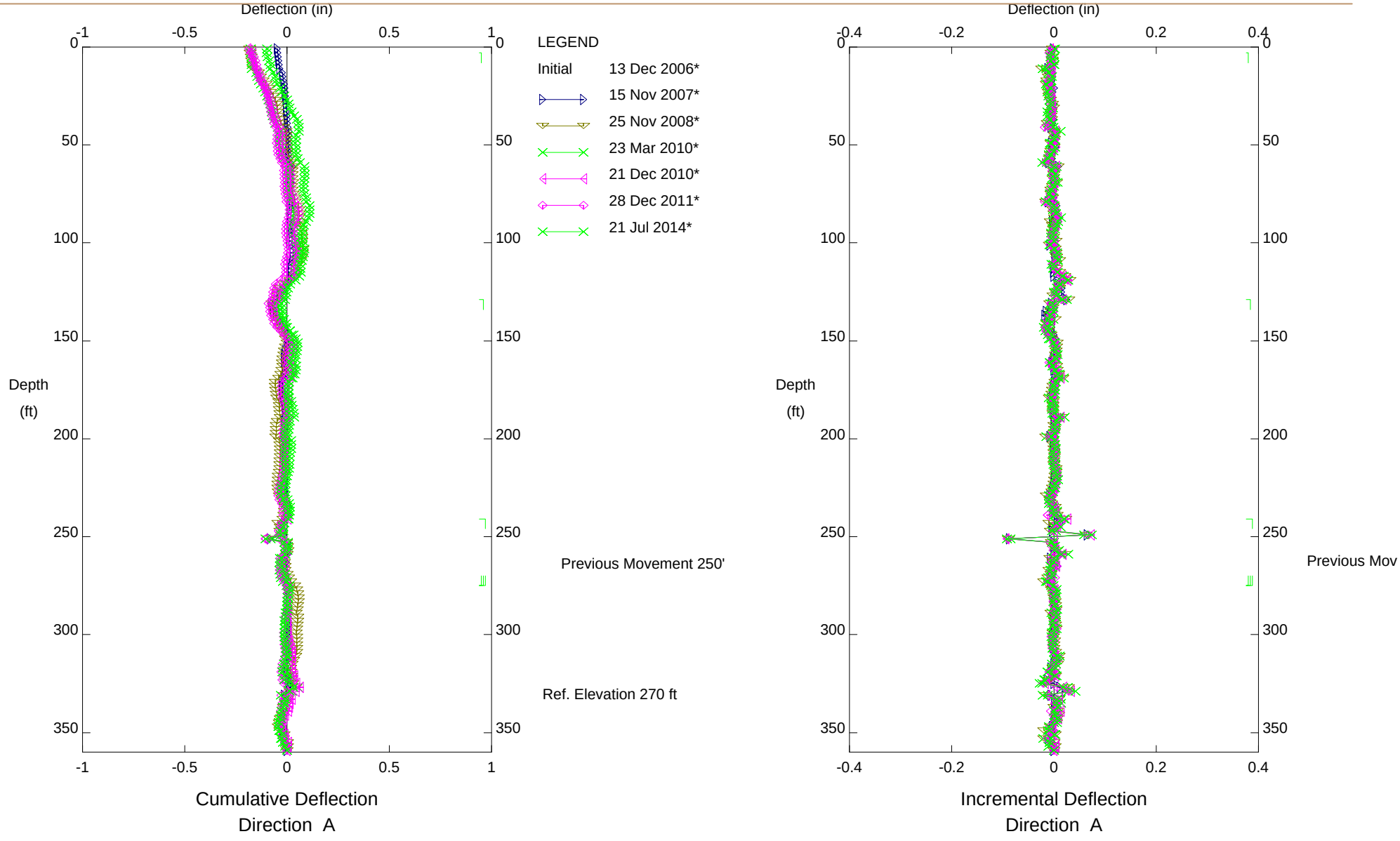


BIG ROCK MESA, Inclinometer SP-10

BLUFF REGION

PLATE D-10d

Fugro Consultants, Inc. - Ventura, CA



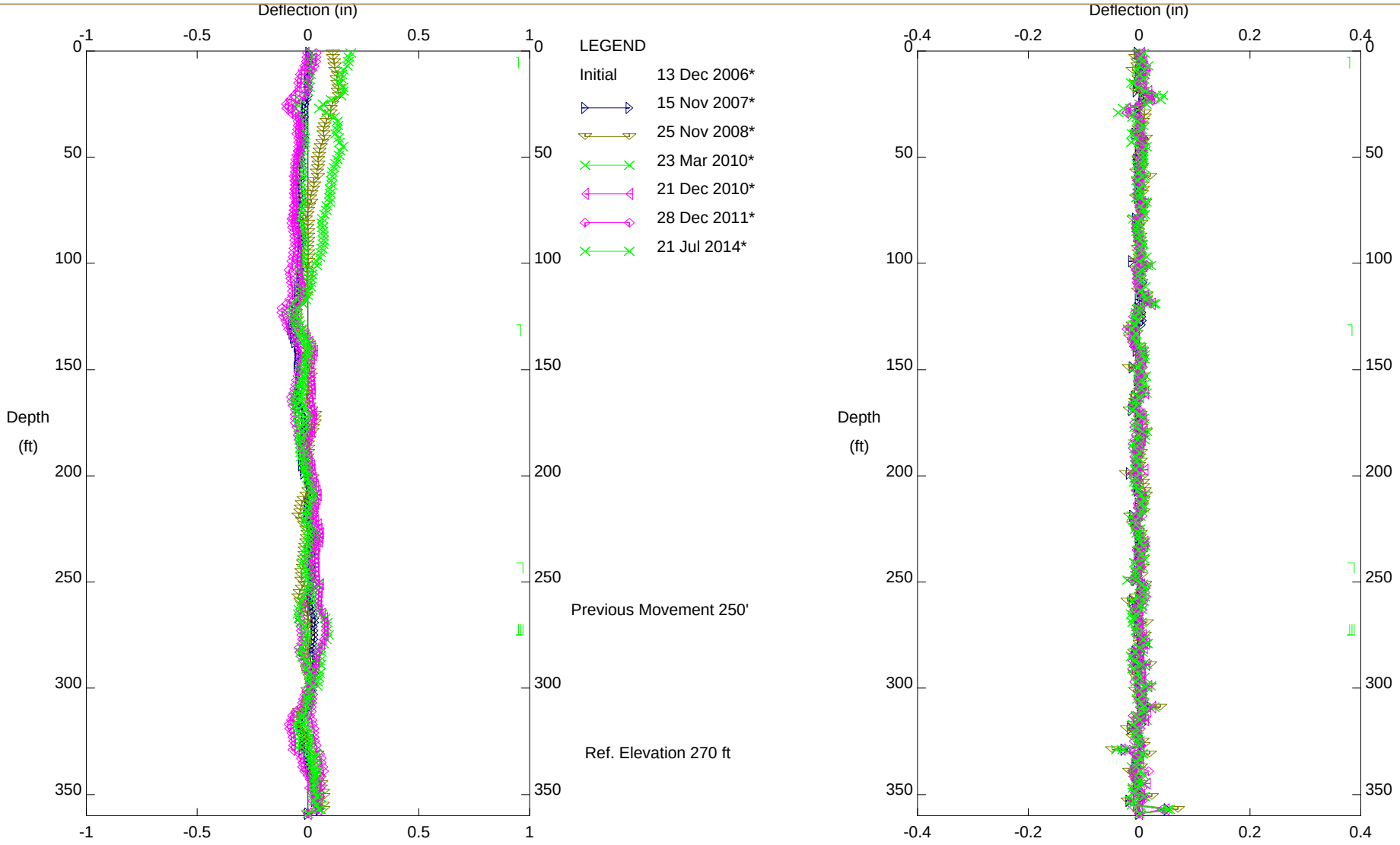
BIG ROCK MESA, Inclinometer SP-28

BLUFF REGION

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

PLATE D-11a

C:\CADFiles\MalibuInclinometers\Big Rock GTL\SP28.gtl

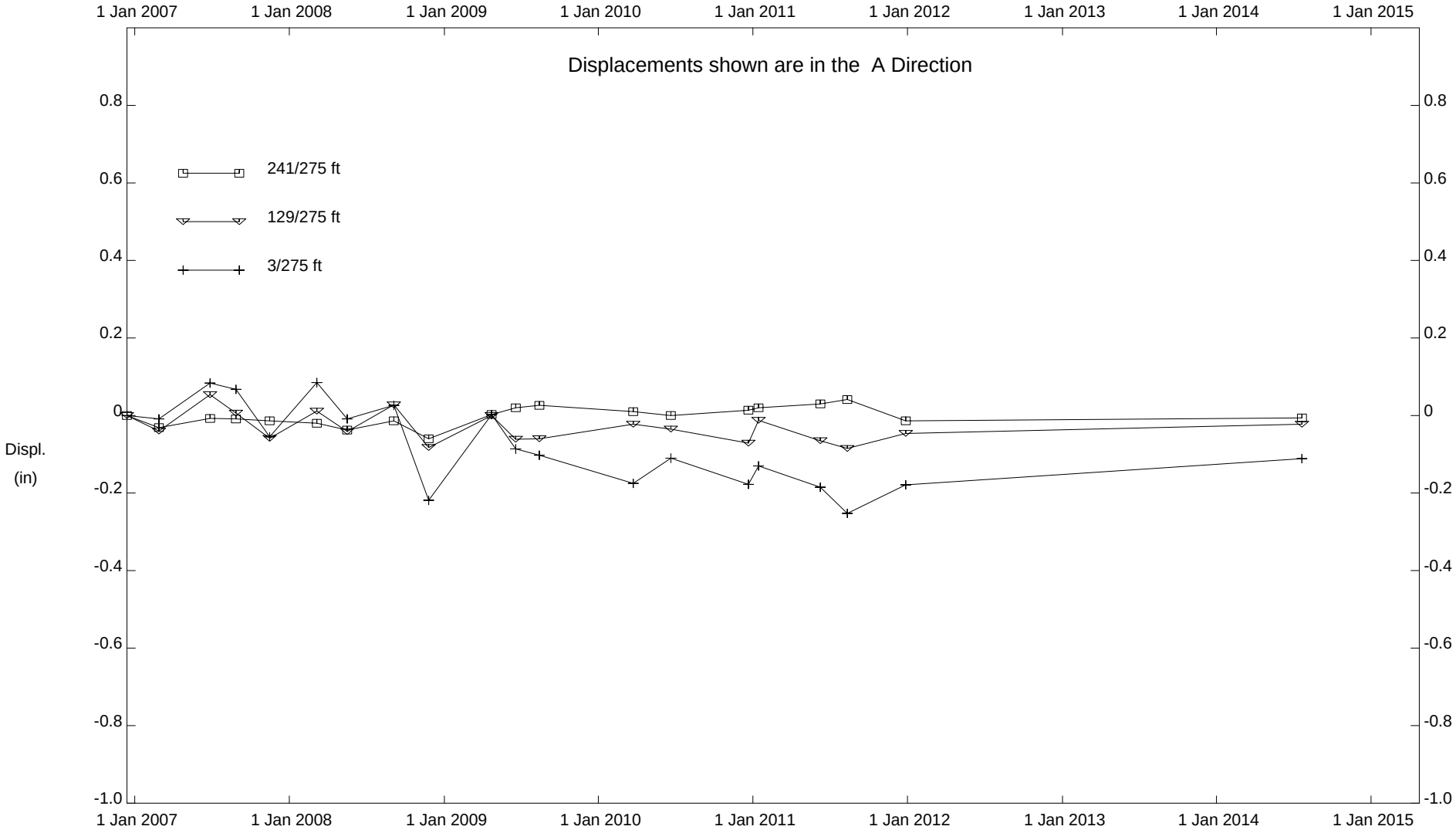


BIG ROCK MESA, Inclinometer SP-28

BLUFF REGION

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

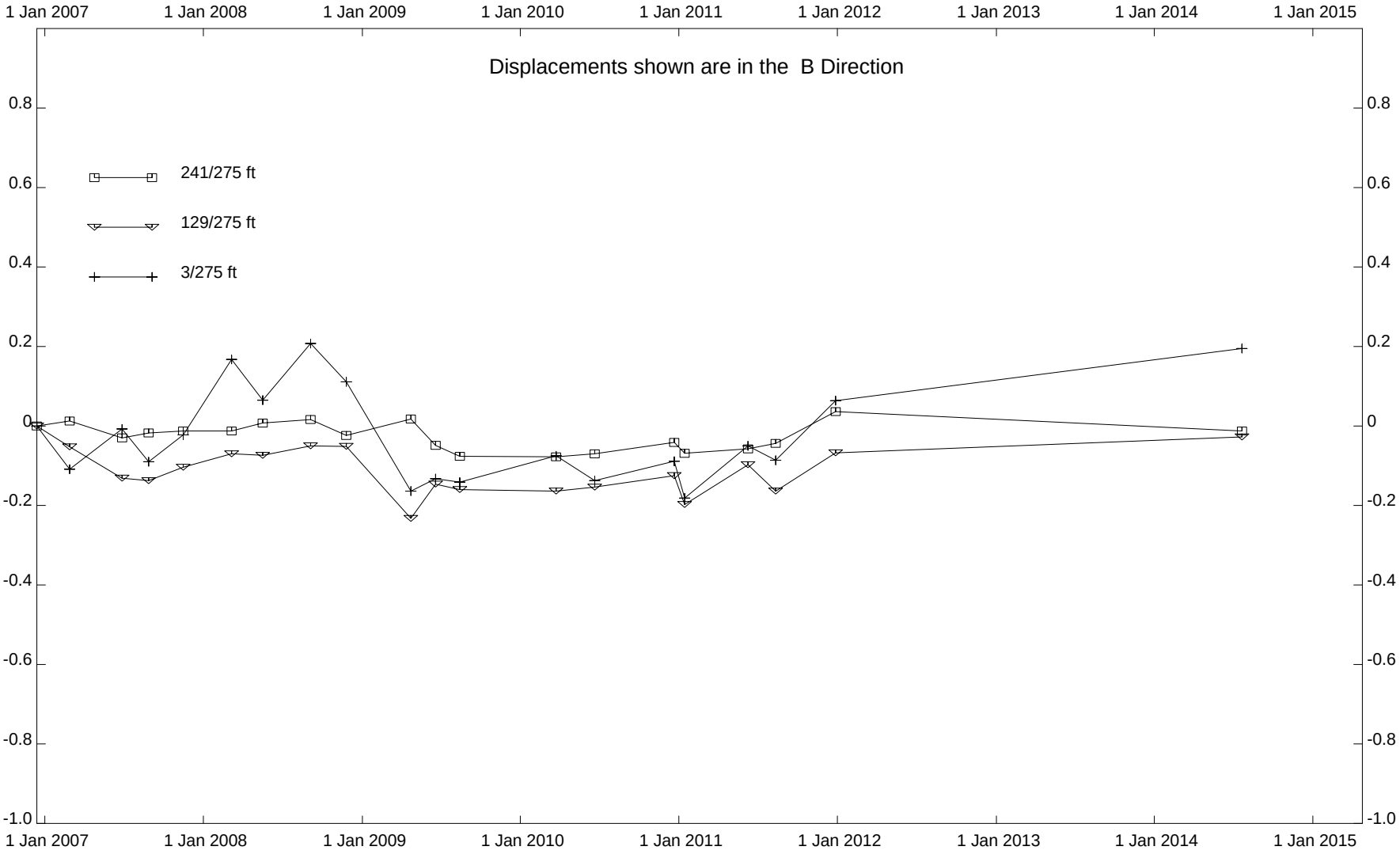
PLATE D-11b



BIG ROCK MESA, Inclinometer SP-28

BLUFF REGION

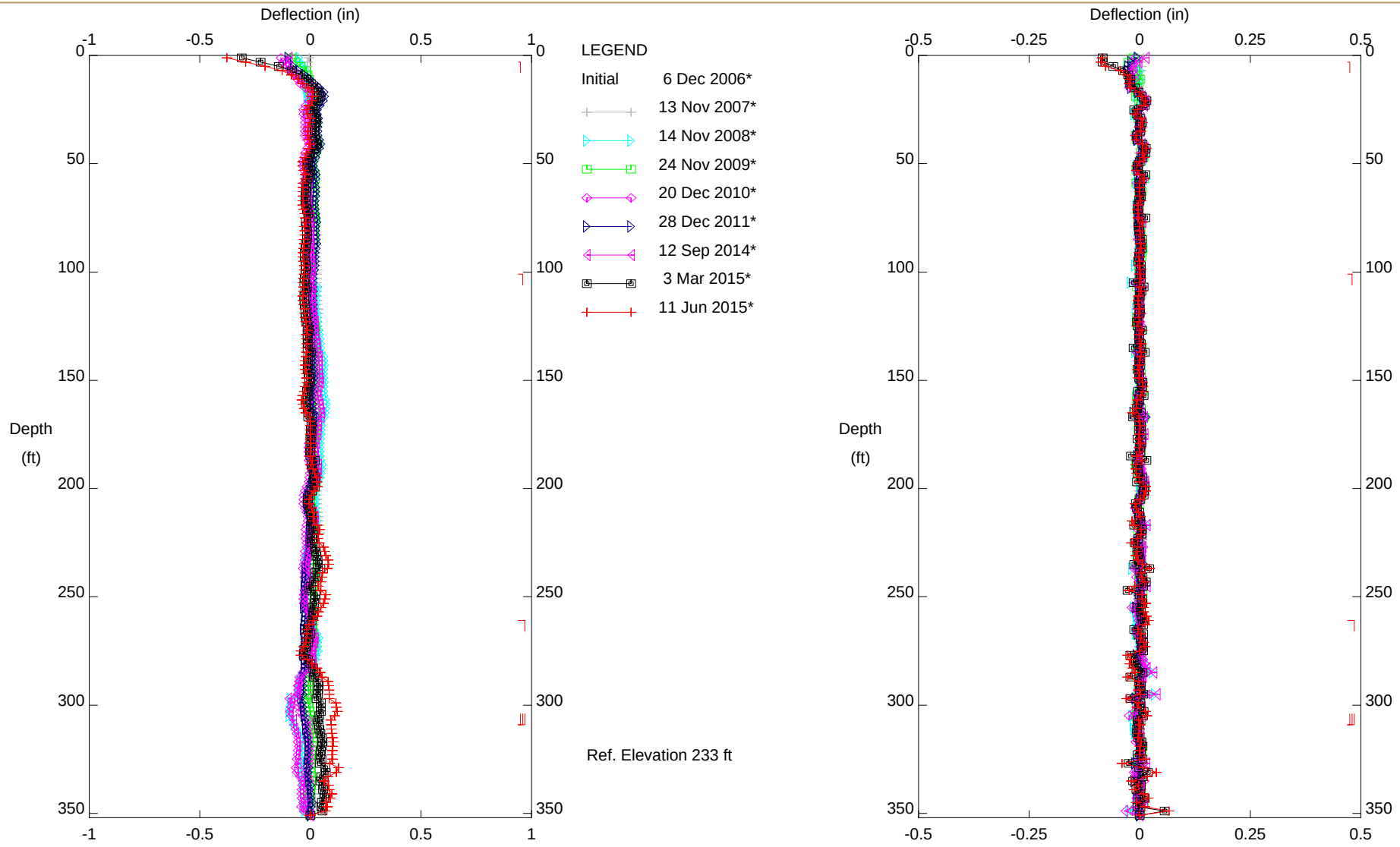
PLATE D-11c



BIG ROCK MESA, Inclinometer SP-28

BLUFF REGION

PLATE D-11d

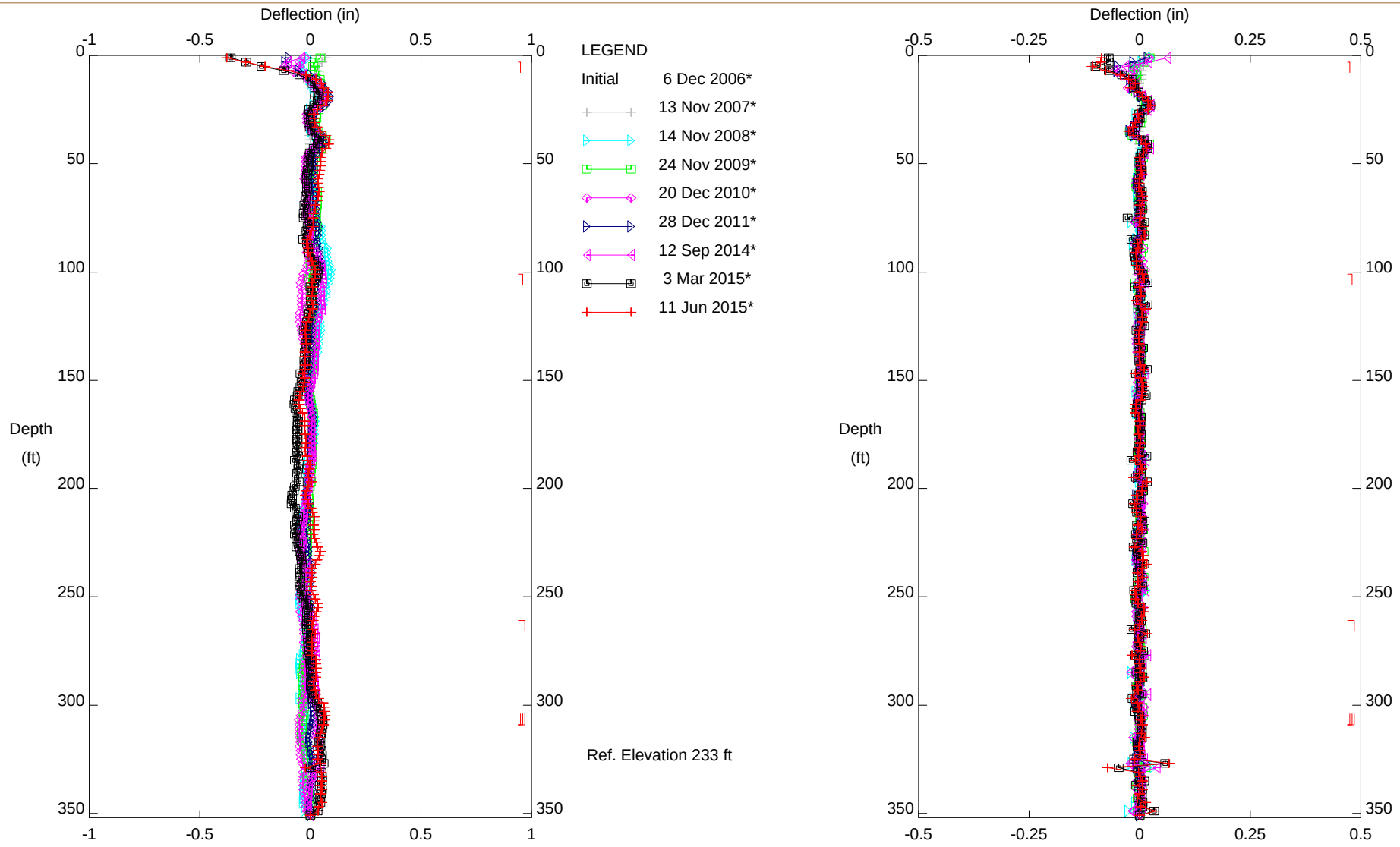


BIG ROCK MESA, Inclinometer SP-32

BLUFF REGION

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

PLATE D-12a



Cumulative Deflection
Direction B

past movement 250 feet

Incremental Deflection
Direction B

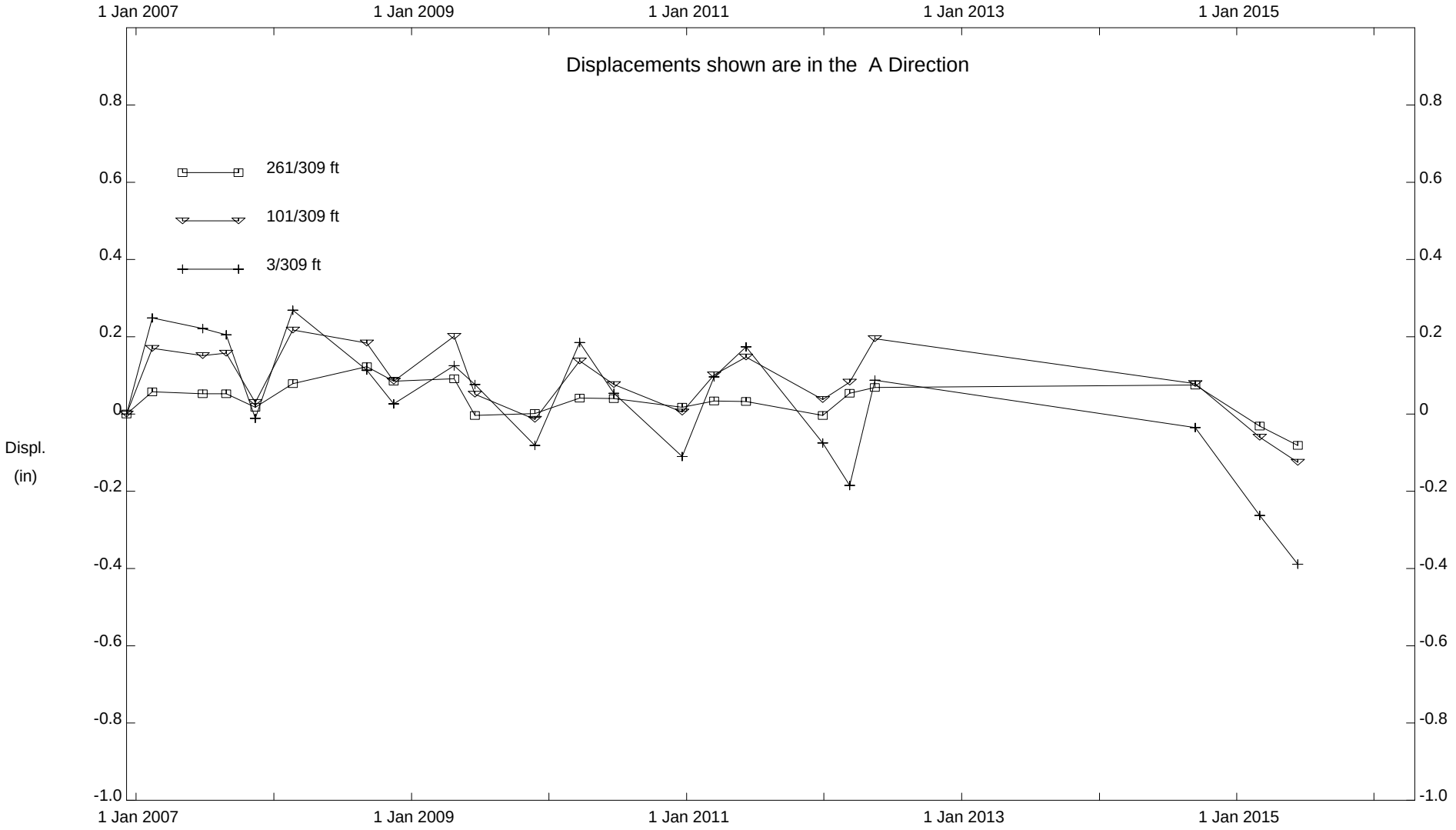
past movement 250 feet

BIG ROCK MESA, Inclinometer SP-32

BLUFF REGION

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

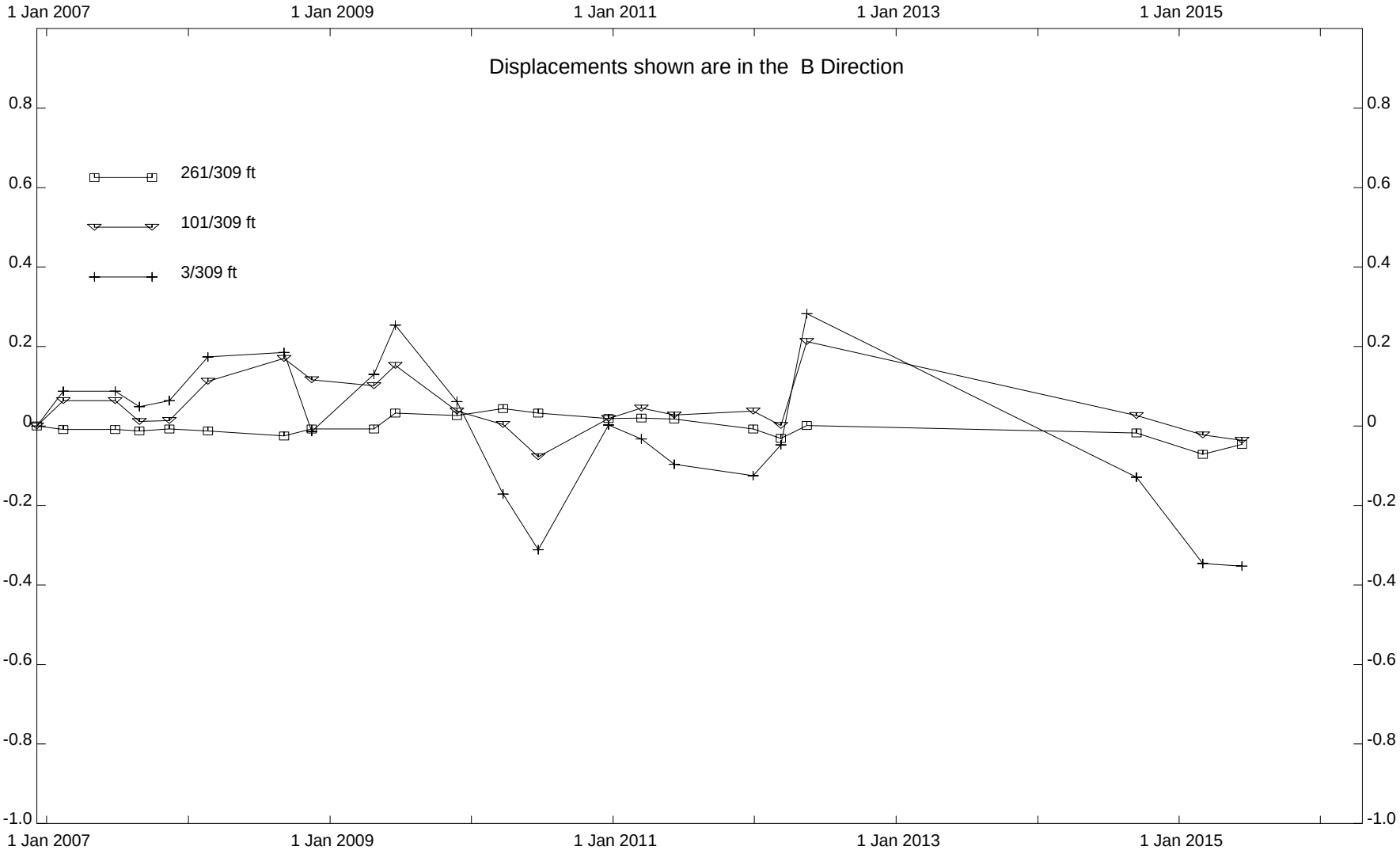
PLATE D-12b



BIG ROCK MESA, Inclinometer SP-32

BLUFF REGION

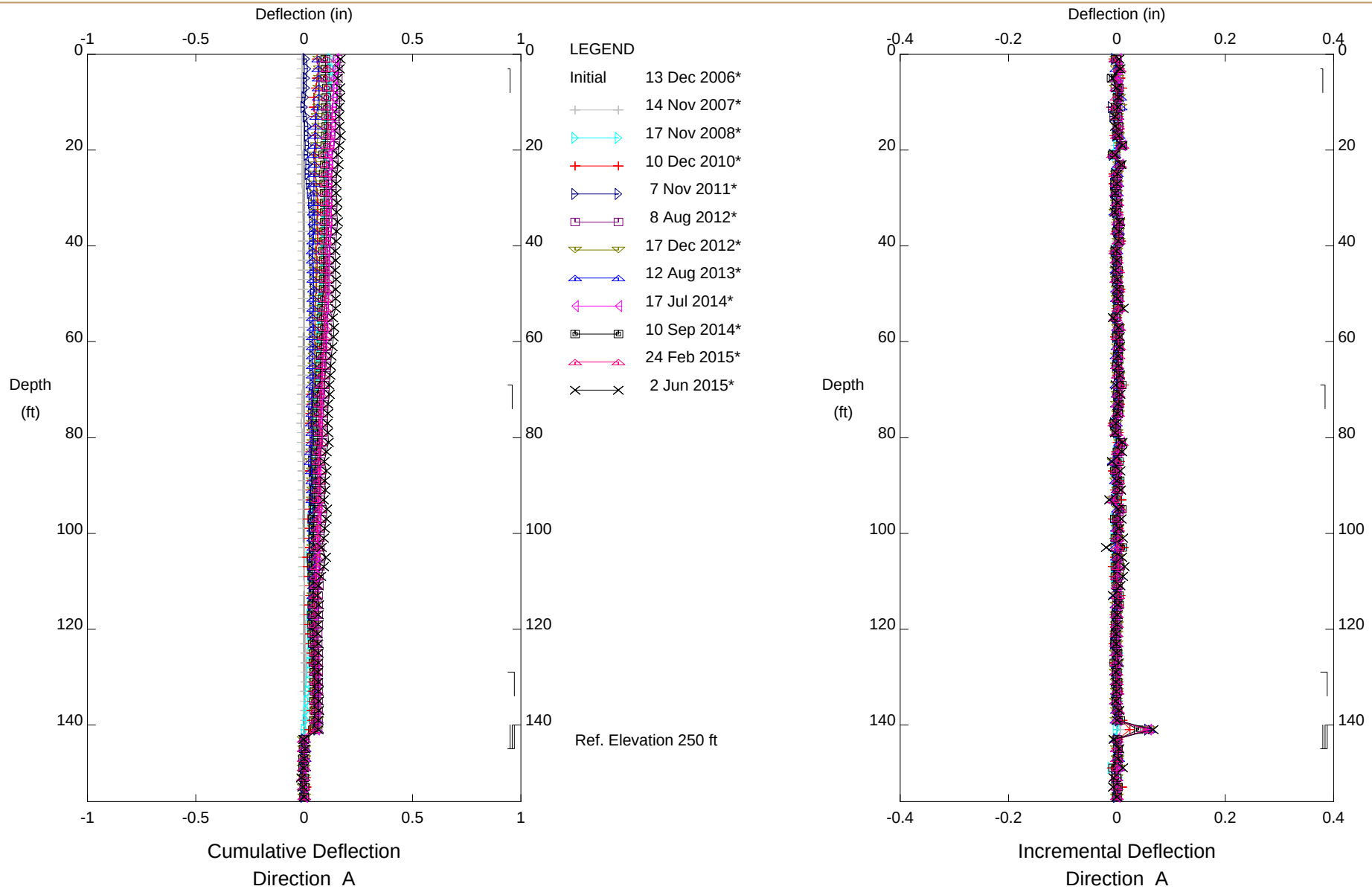
PLATE D-12c



BIG ROCK MESA, Inclinometer SP-32

BLUFF REGION

PLATE D-12d

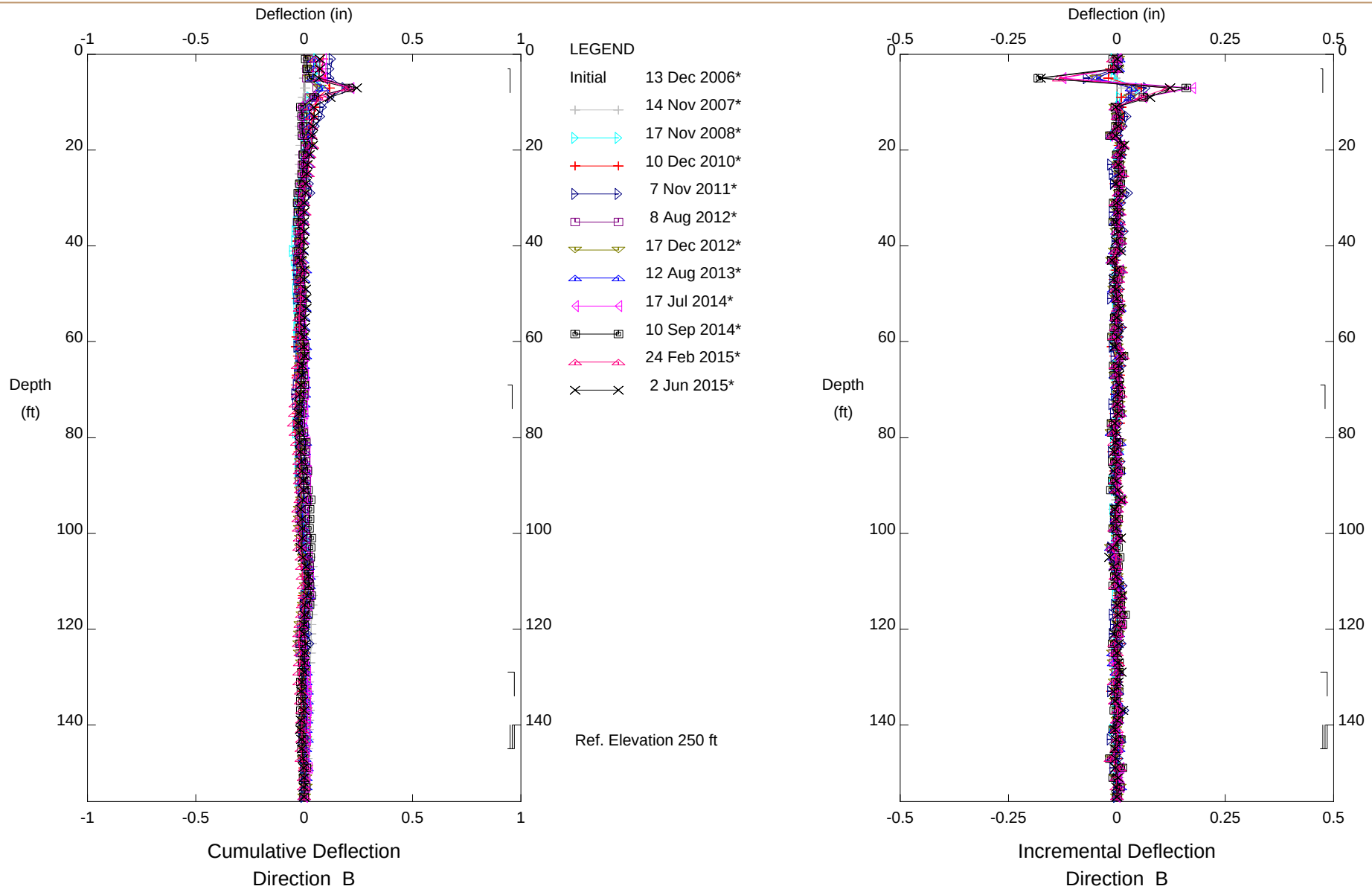


BIG ROCK MESA, Inclinometer PC-1

EASTERN REGION

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

PLATE D-13a

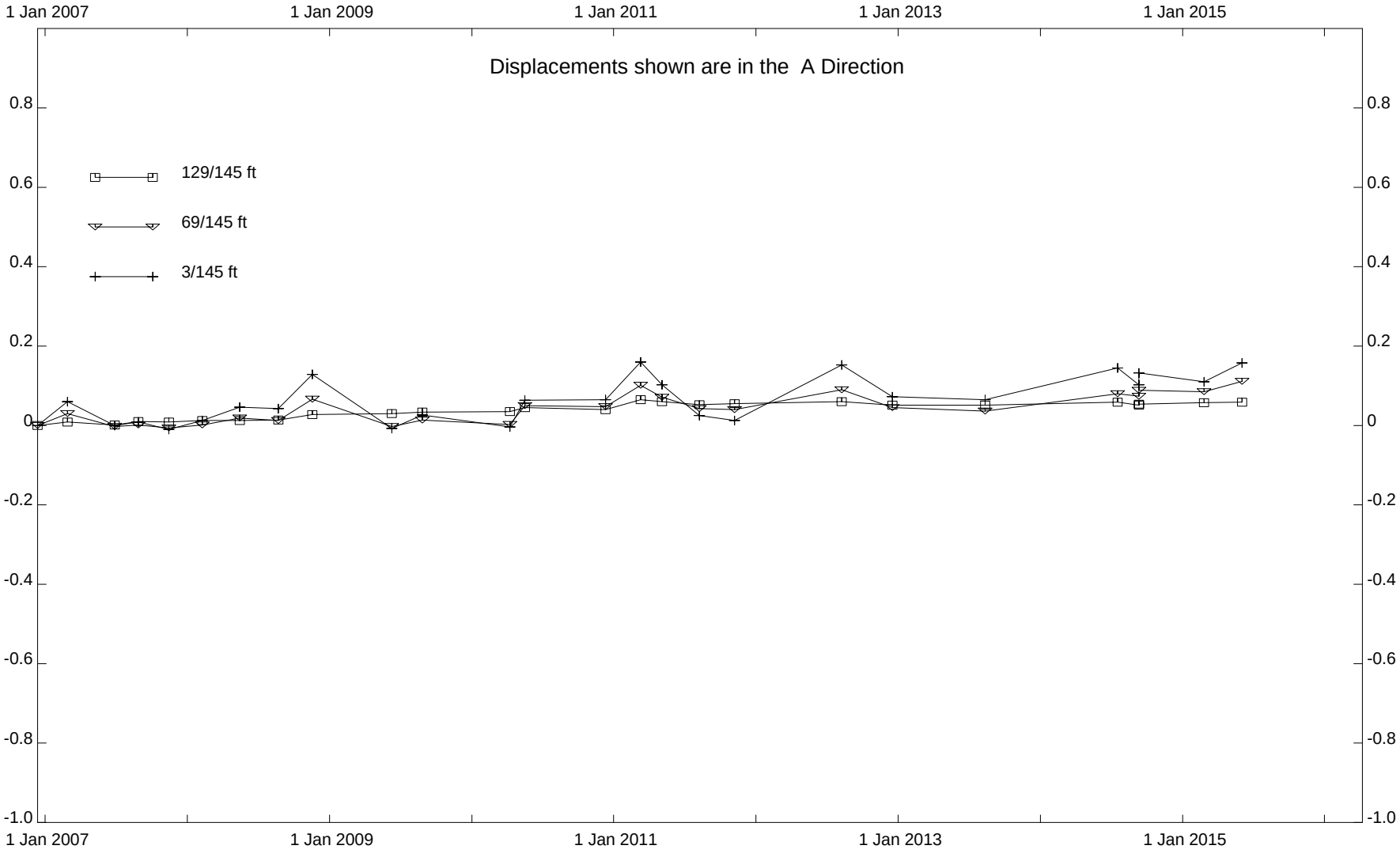


BIG ROCK MESA, Inclinometer PC-1

EASTERN REGION

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

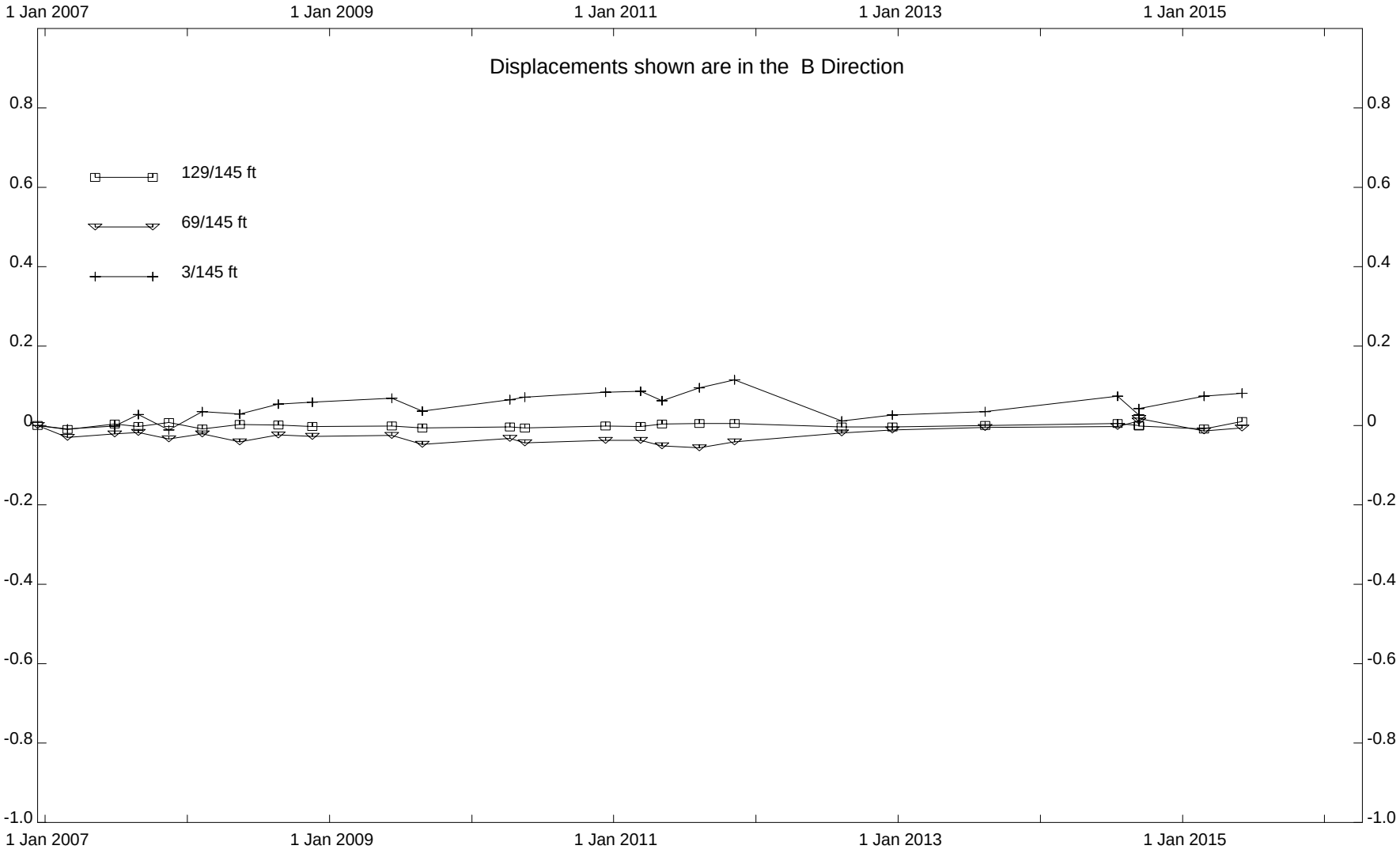
PLATE D-13b



BIG ROCK MESA, Inclinometer PC-1

EASTERN REGION

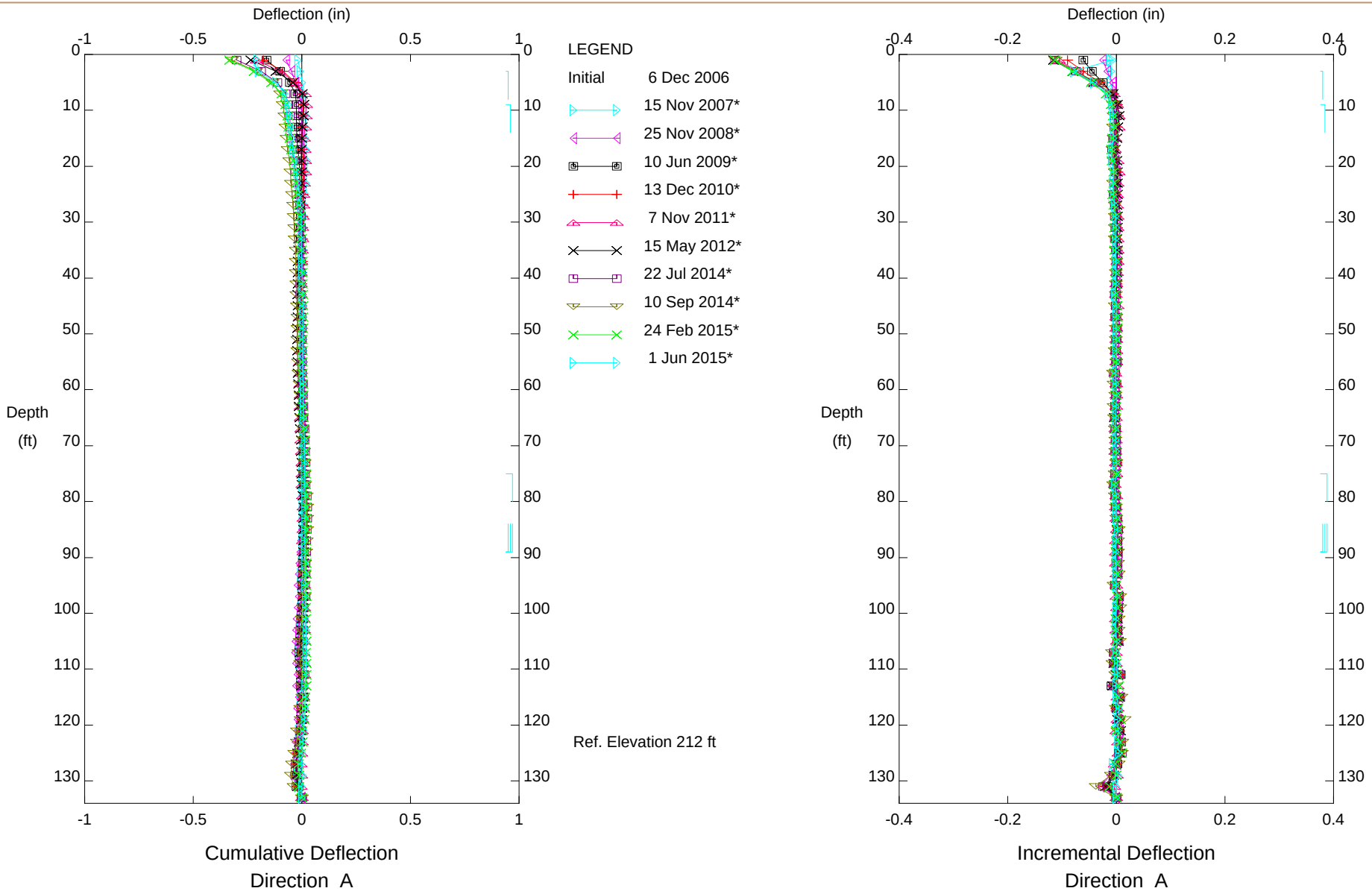
PLATE D-13c



BIG ROCK MESA, Inclinometer PC-1

EASTERN REGION

PLATE D-13d

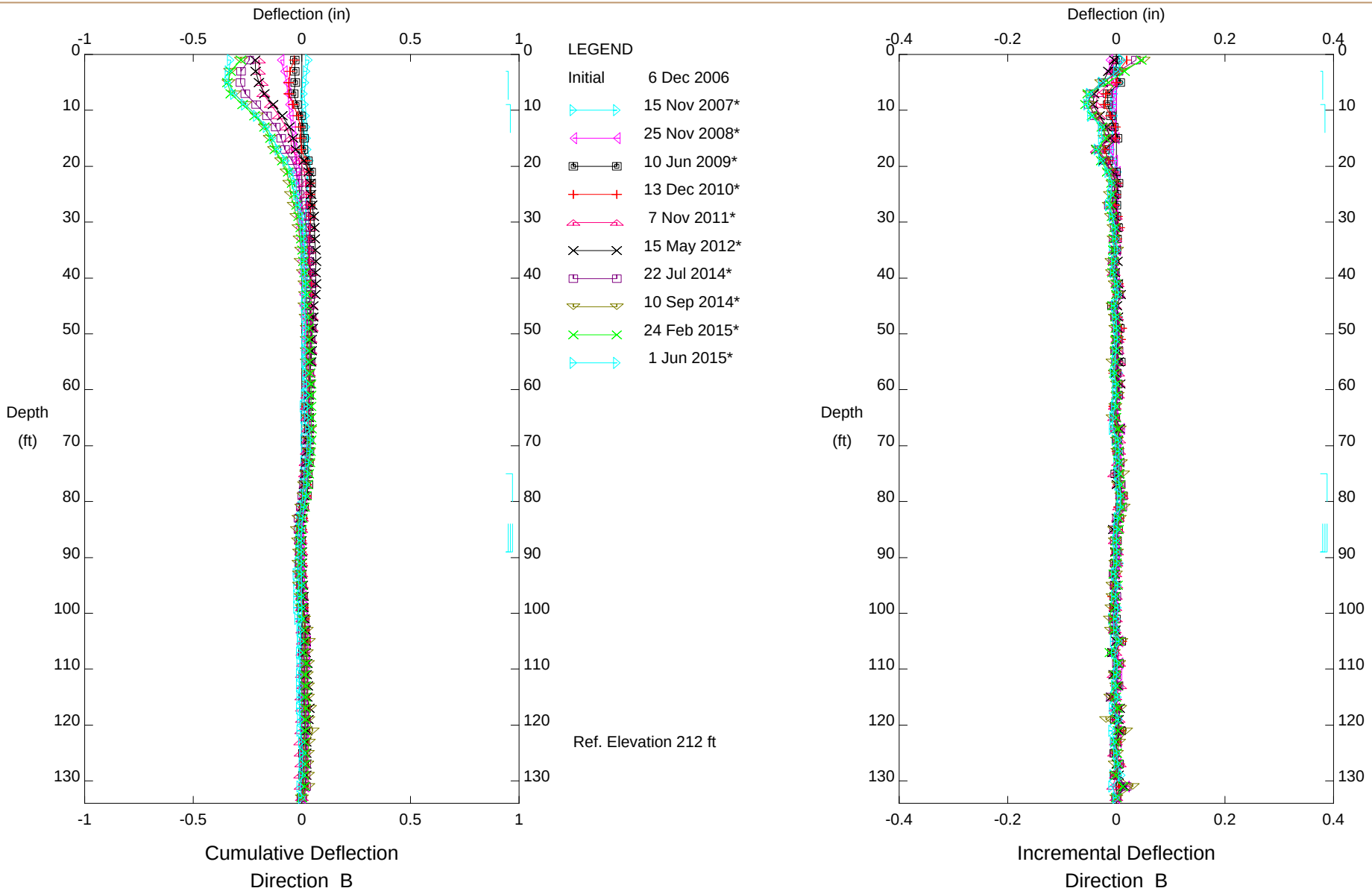


BIG ROCK MESA, Inclinometer SP-3

EASTERN REGION

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

PLATE D-14a

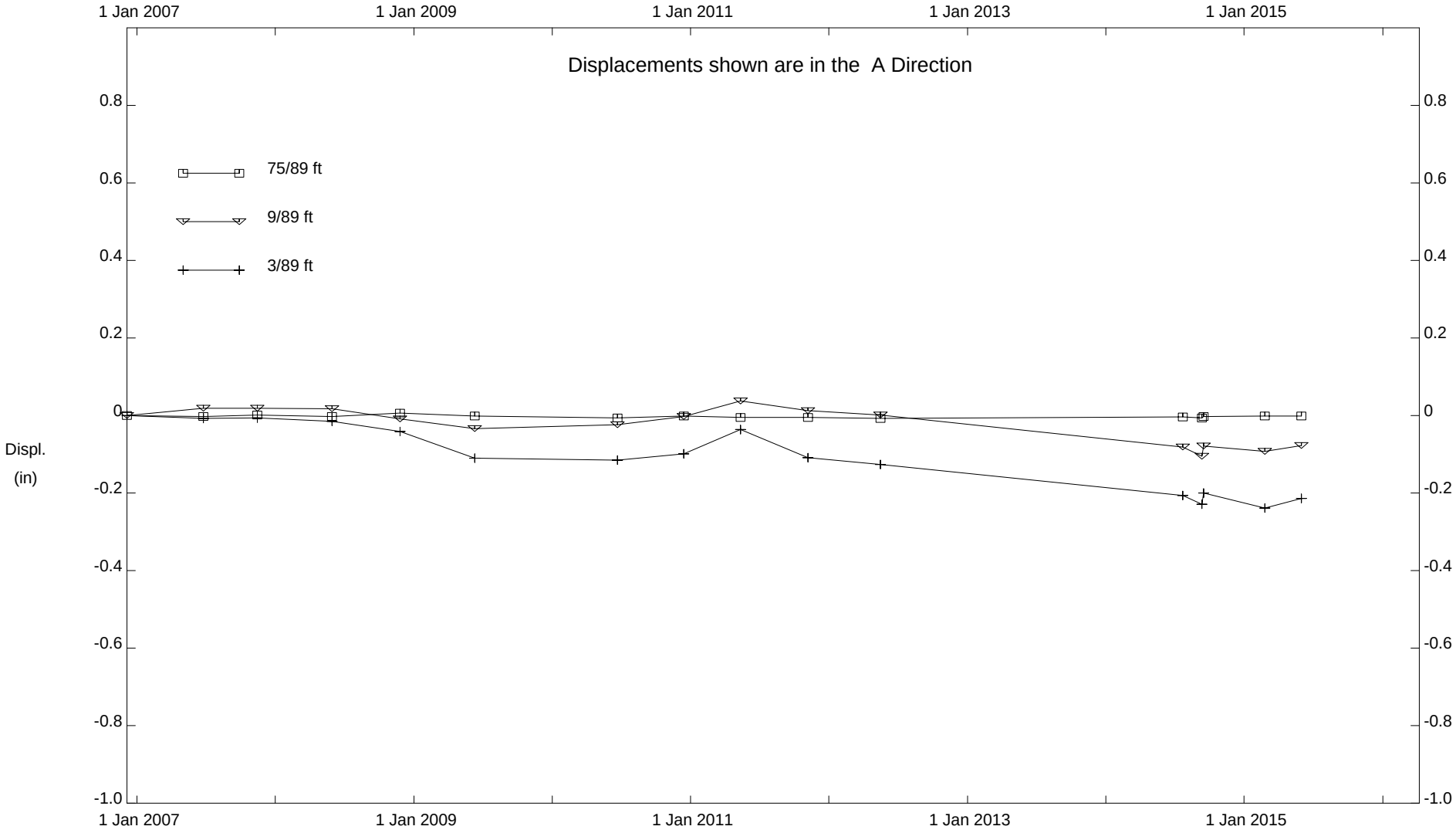


BIG ROCK MESA, Inclinometer SP-3

EASTERN REGION

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

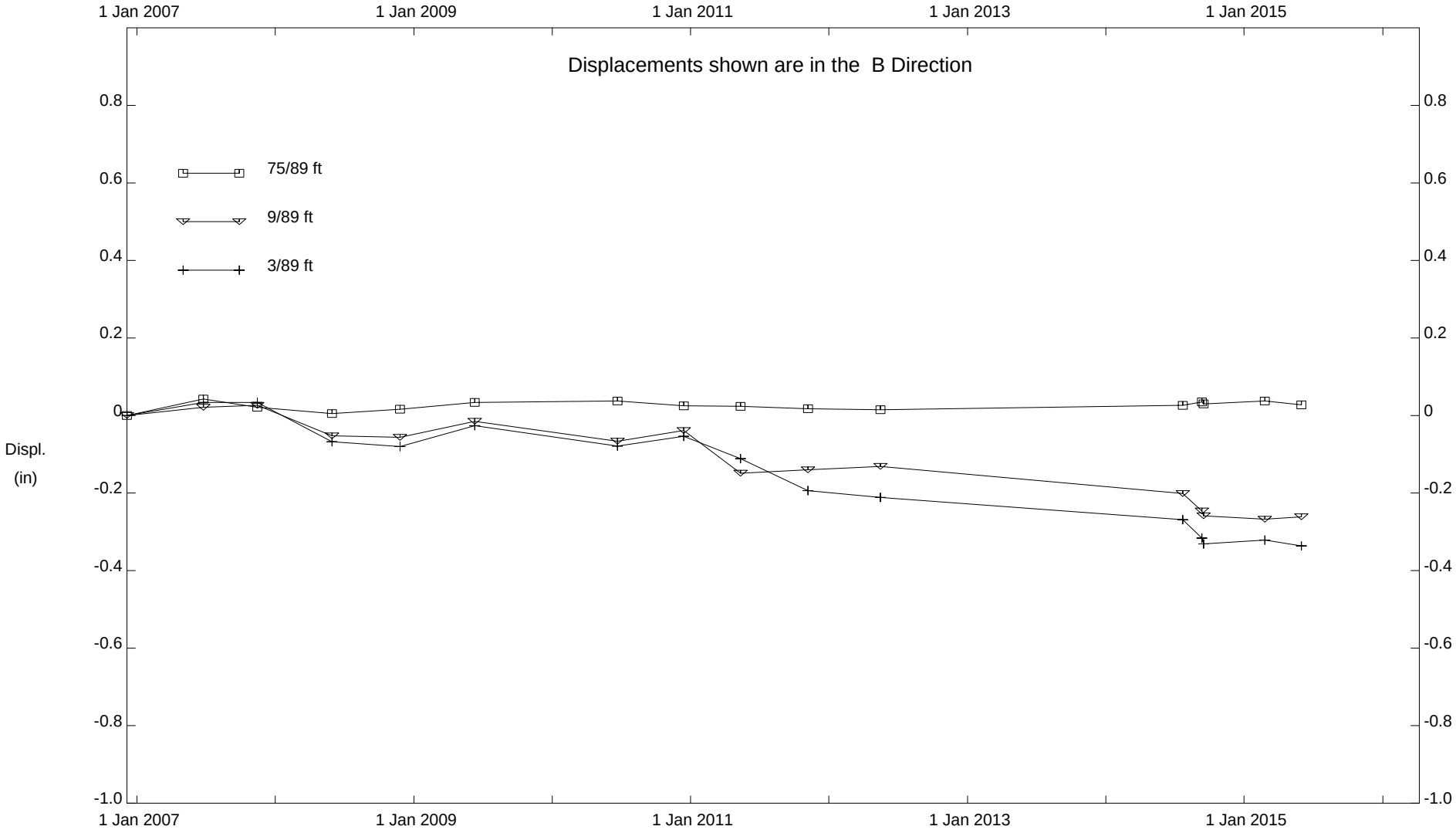
PLATE D-14b



BIG ROCK MESA, Inclinometer SP-3

EASTERN REGION

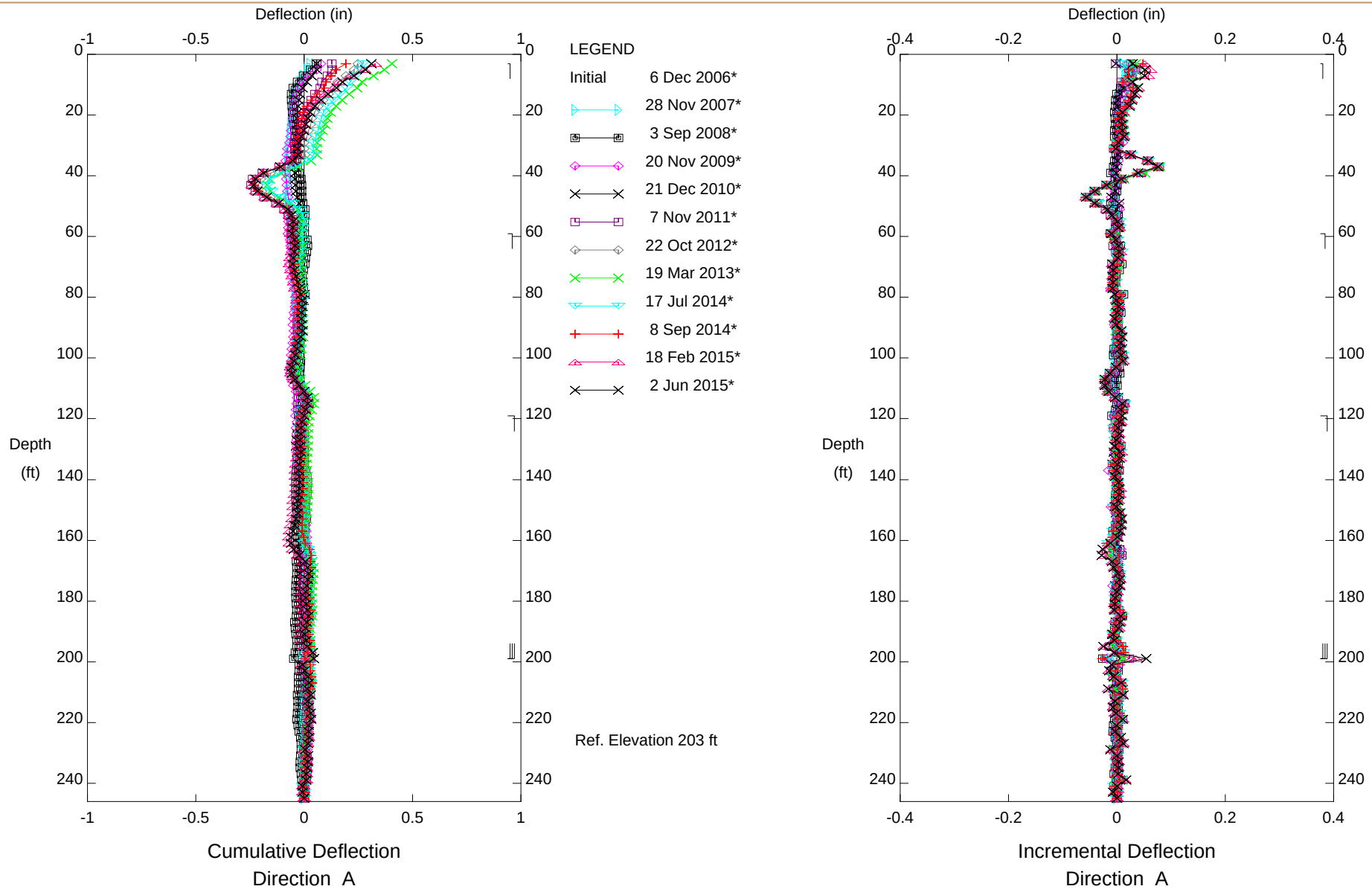
PLATE D-14c



BIG ROCK MESA, Inclinometer SP-3

EASTERN REGION

PLATE D-14d

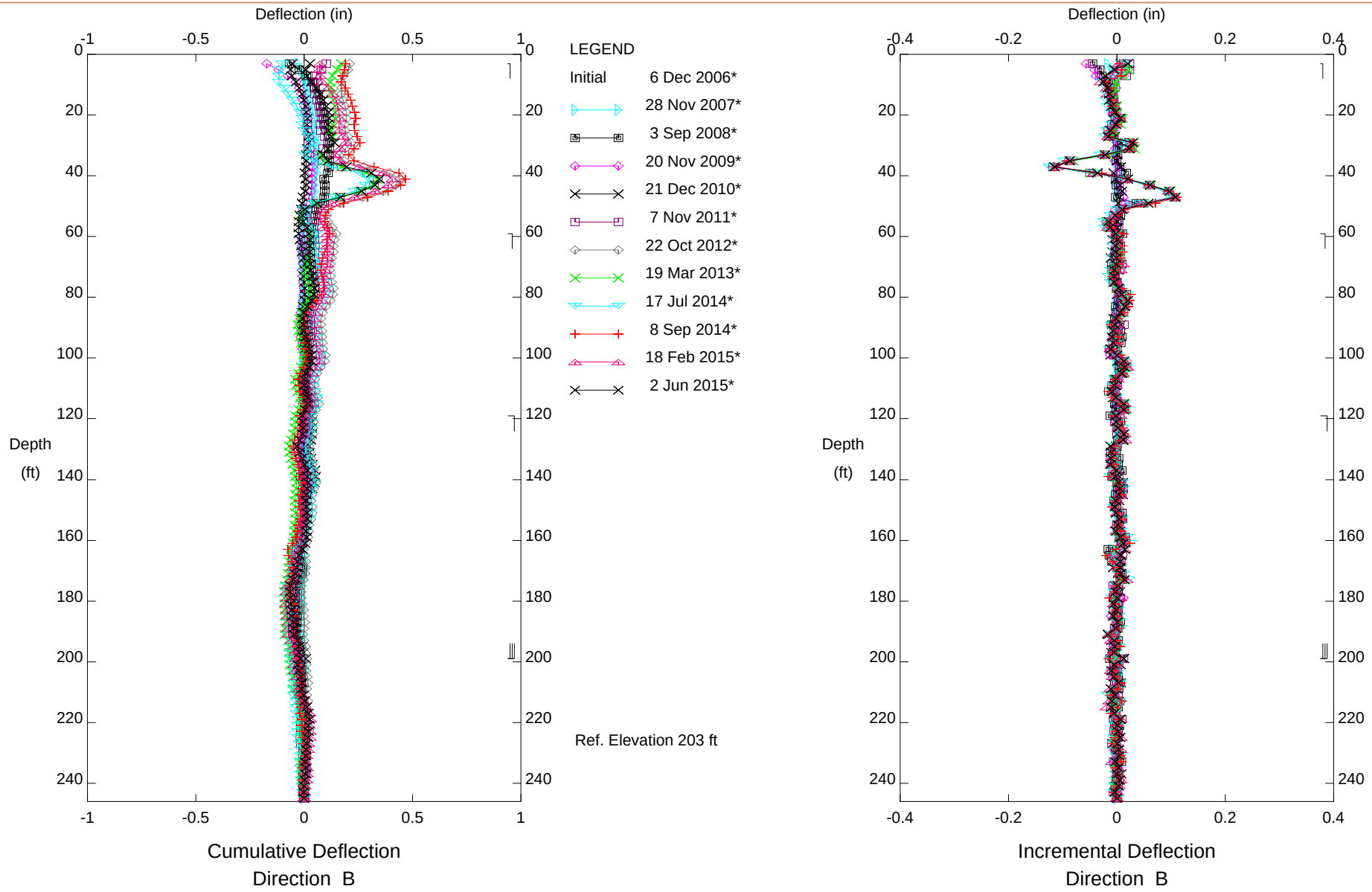


BIG ROCK MESA, Inclinometer SP-3A

EASTERN REGION

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

PLATE D-15a

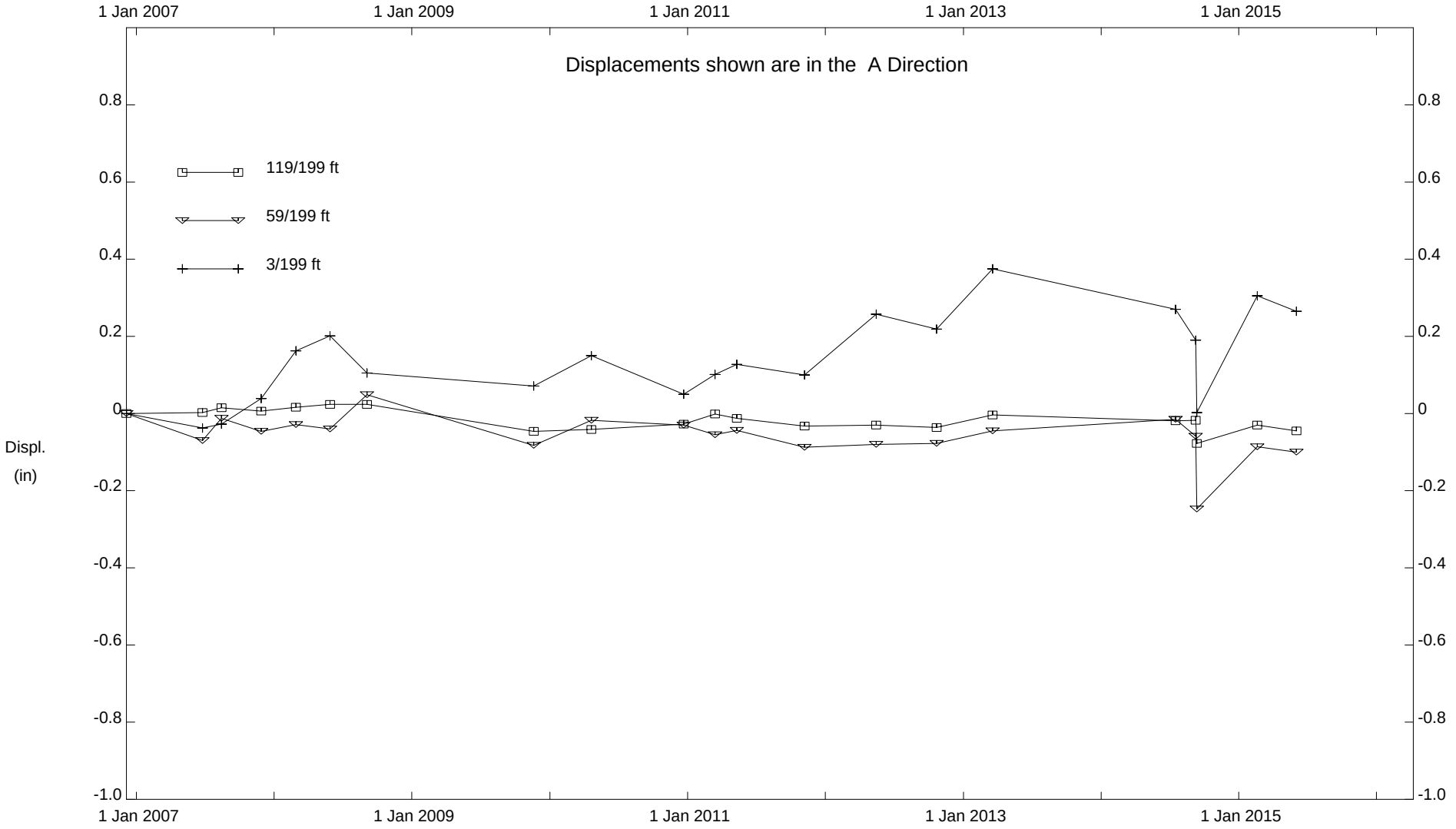


BIG ROCK MESA, Inclinometer SP-3A

EASTERN REGION

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

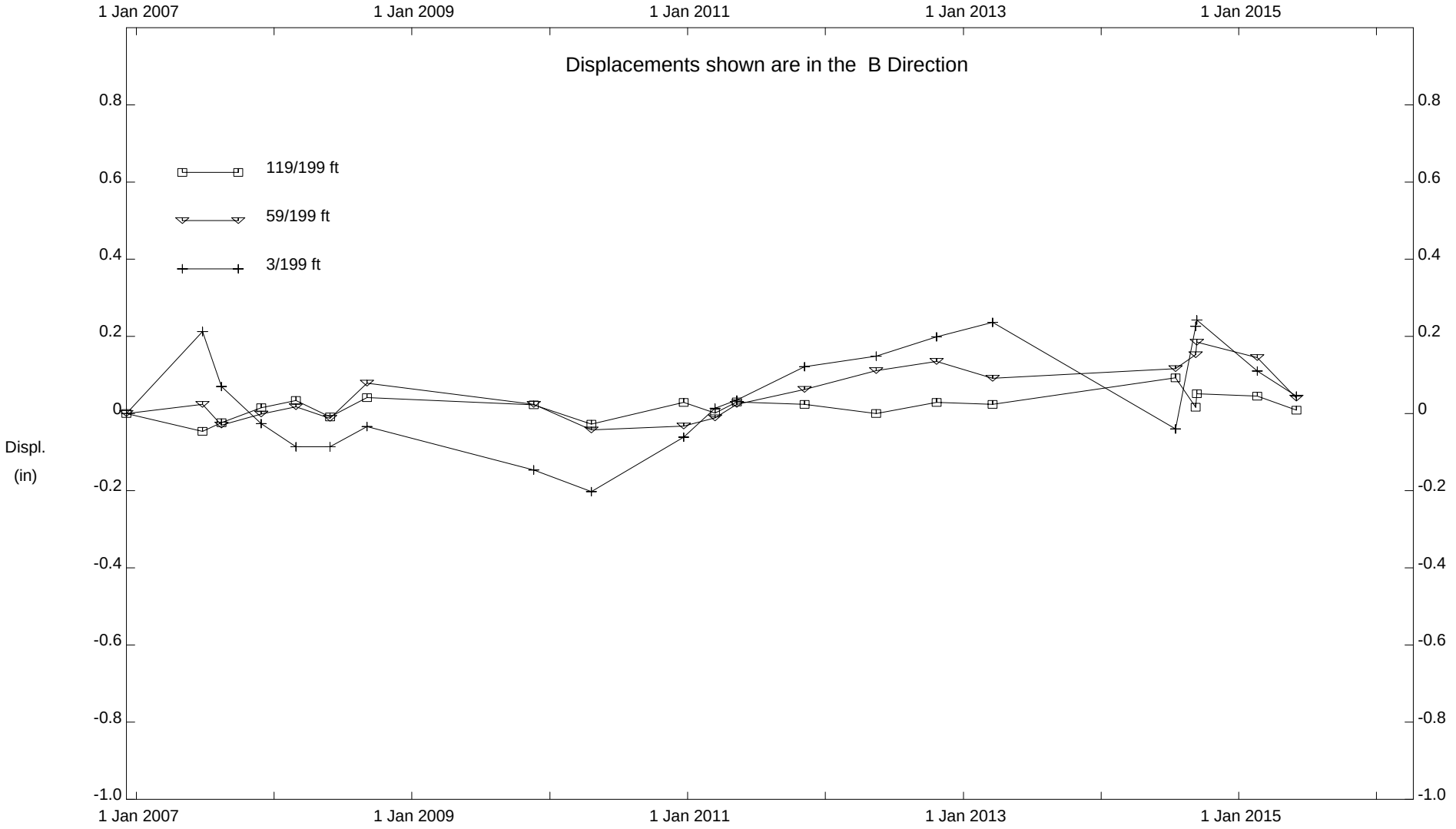
PLATE D-15b



BIG ROCK MESA, Inclinometer SP-3A

EASTERN REGION

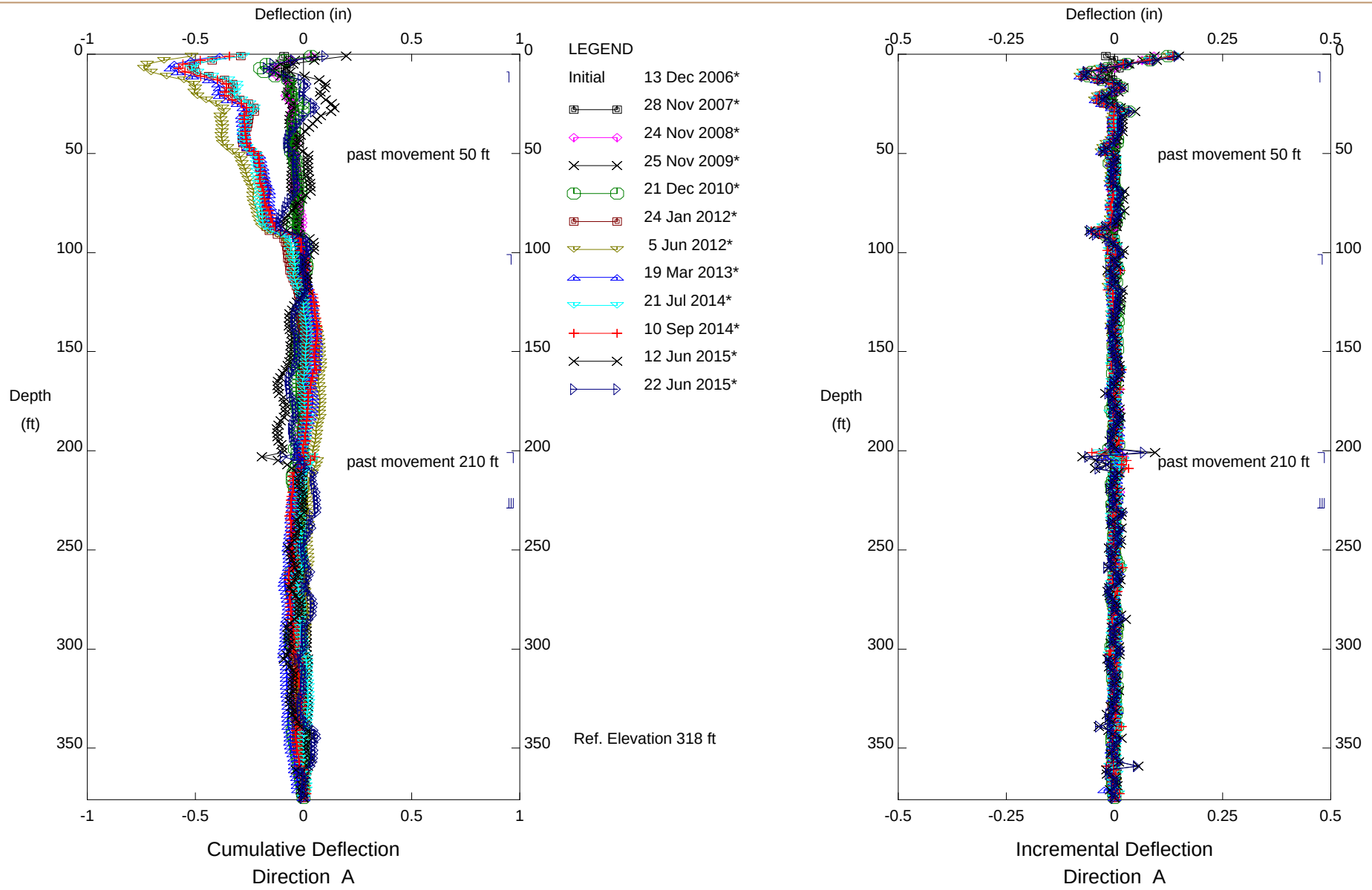
PLATE D-15c



BIG ROCK MESA, Inclinometer SP-3A

EASTERN REGION

PLATE D-15d

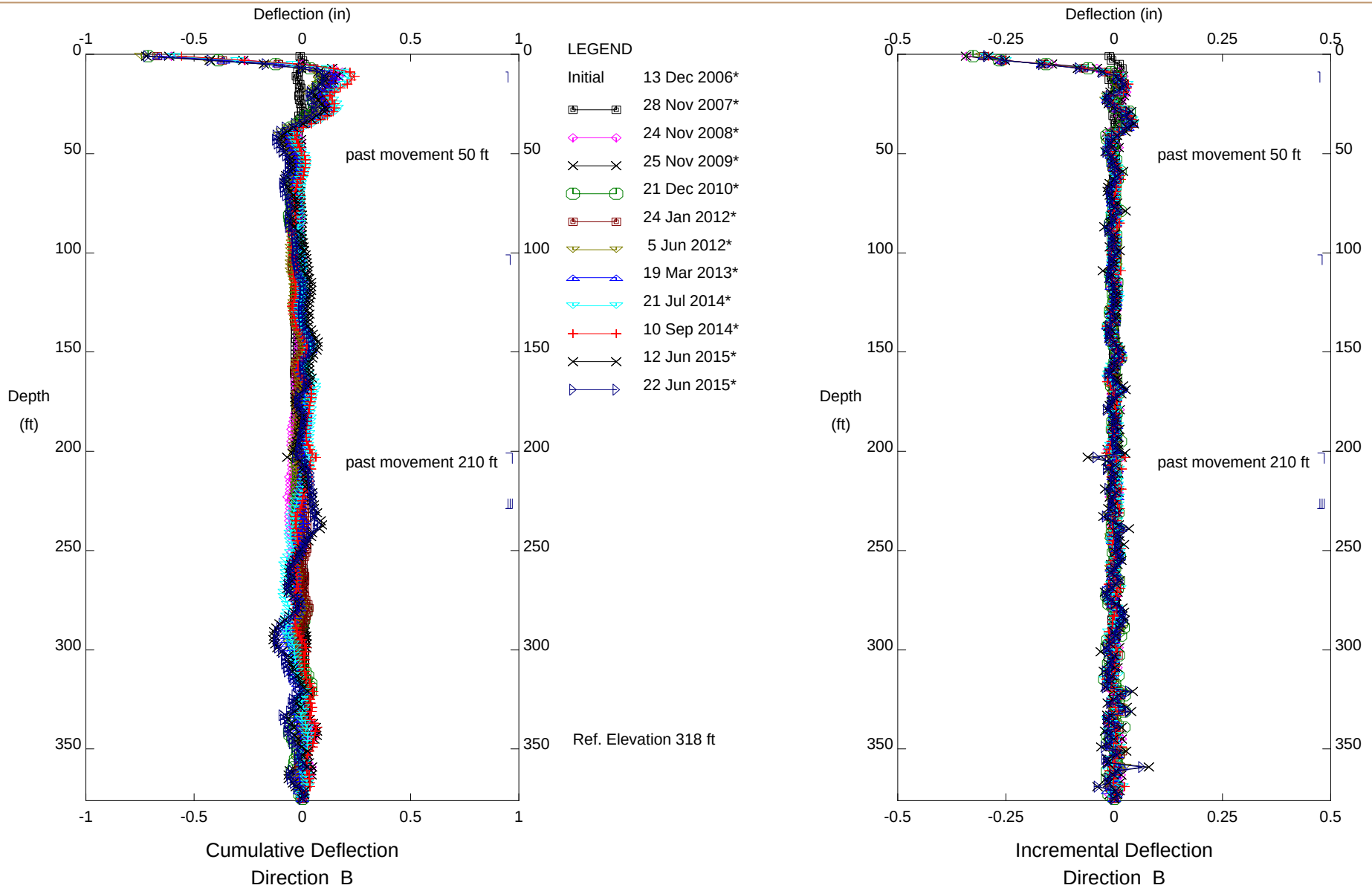


BIG ROCK MESA, Inclinometer SP-33

EASTERN REGION

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

PLATE D-16a

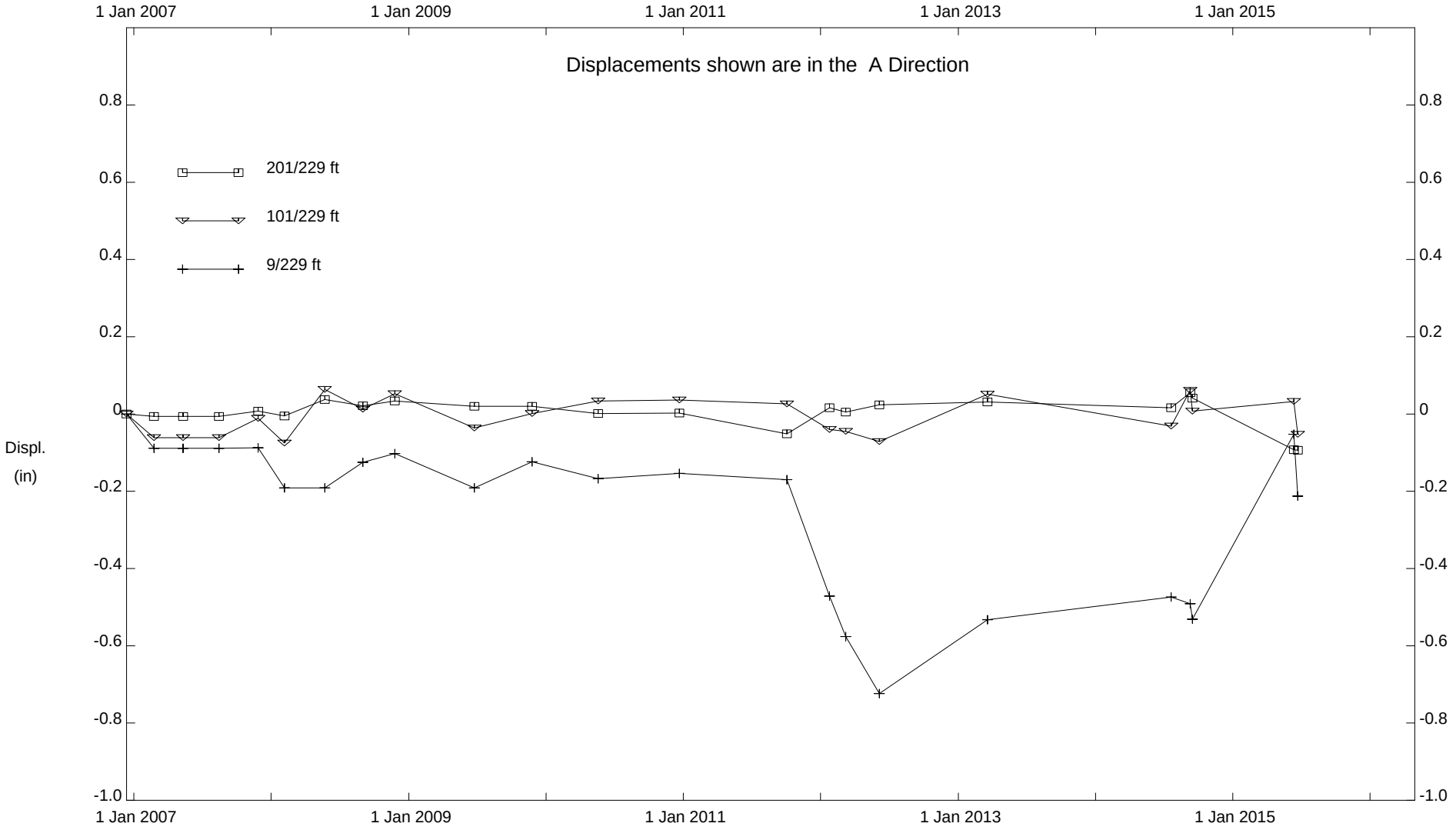


BIG ROCK MESA, Inclinometer SP-33

EASTERN REGION

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

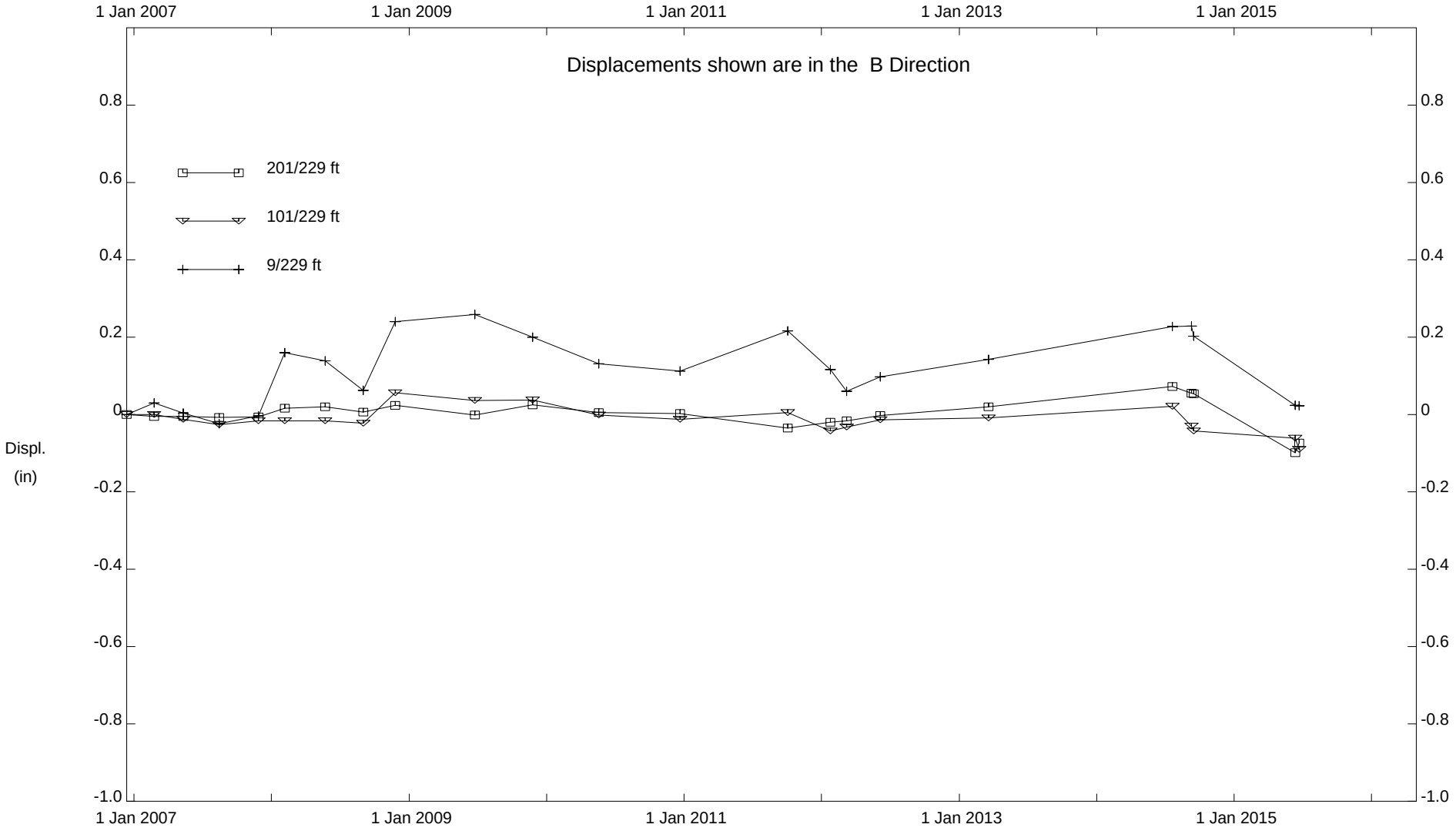
PLATE D-16b



BIG ROCK MESA, Inclinometer SP-33

EASTERN REGION

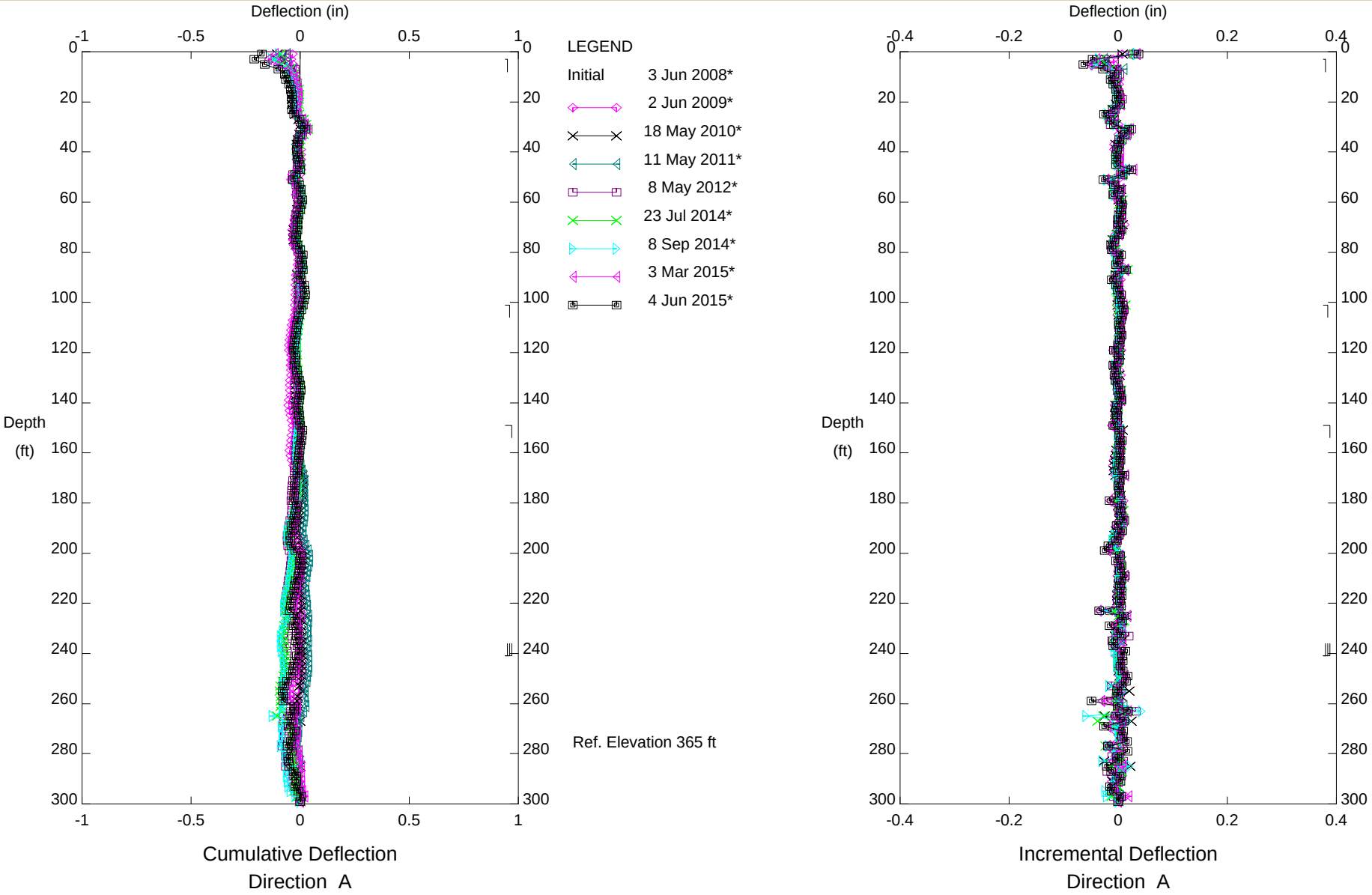
PLATE D-16c



BIG ROCK MESA, Inclinometer SP-33

EASTERN REGION

PLATE D-16d

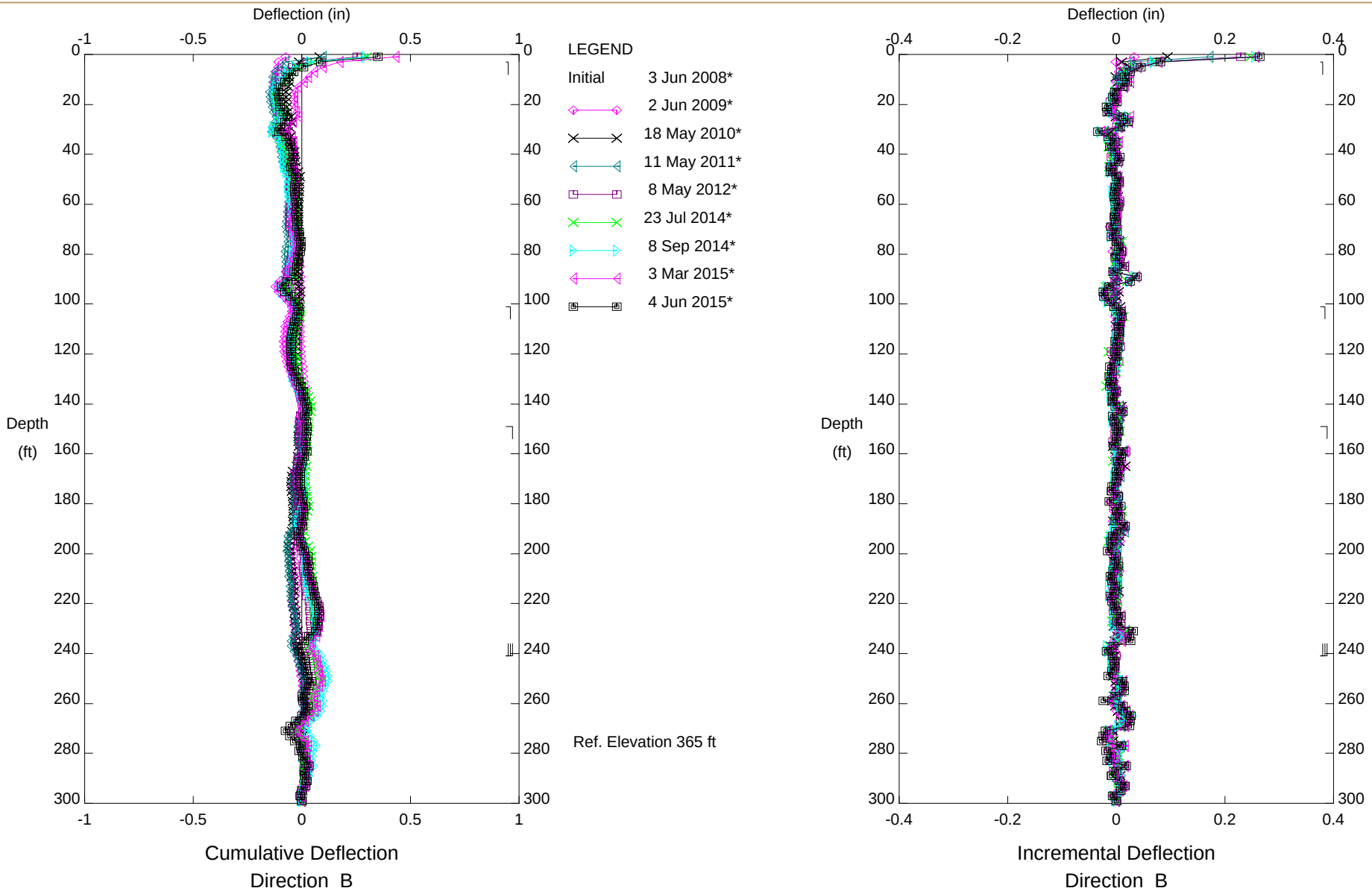


BIG ROCK MESA, Inclinometer SP-9A

CENTRAL REGION

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

PLATE D-17a

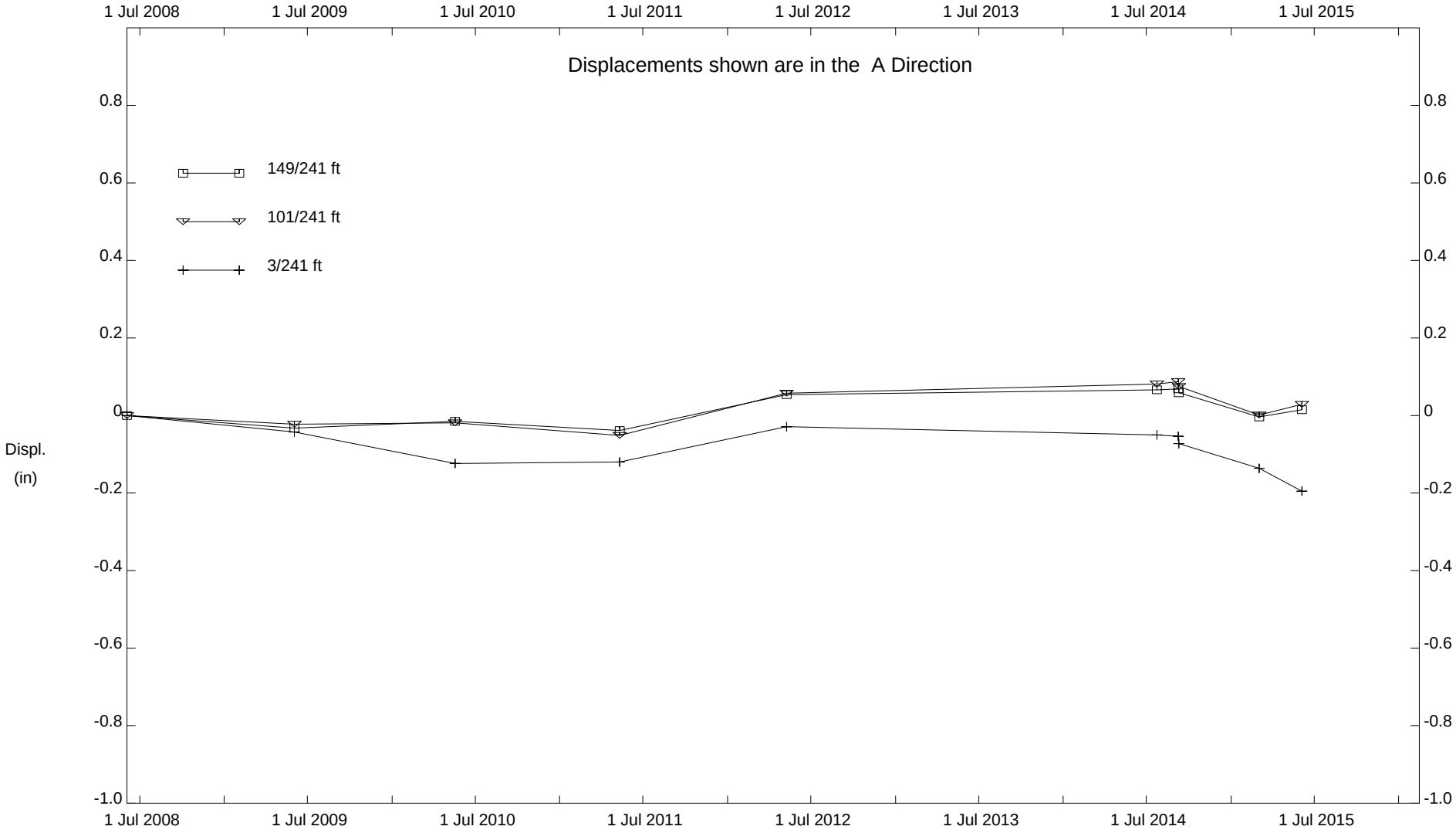


BIG ROCK MESA, Inclinometer SP-9A

CENTRAL REGION

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

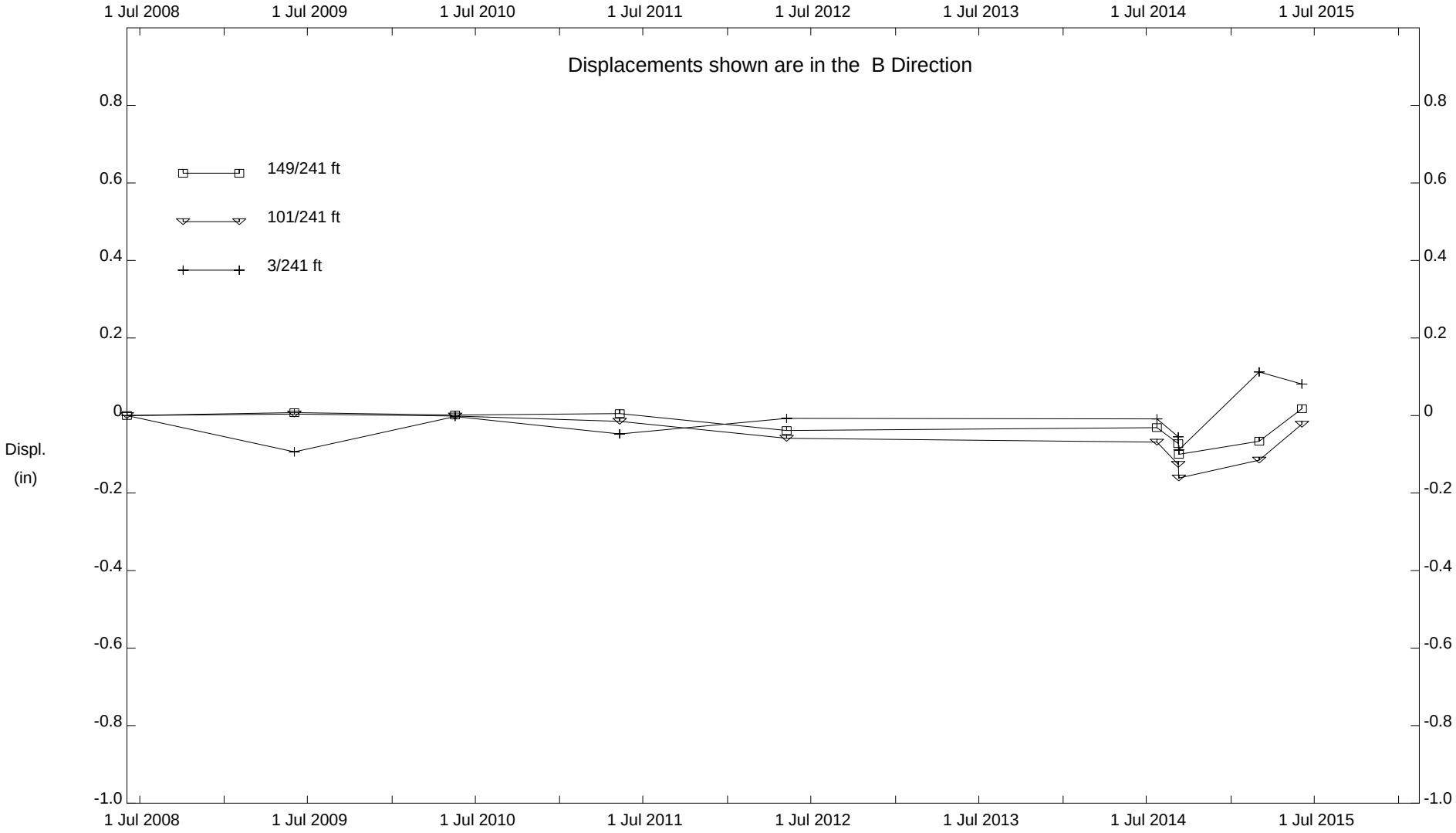
PLATE D-17b



BIG ROCK MESA, Inclinometer SP-9A

CENTRAL REGION

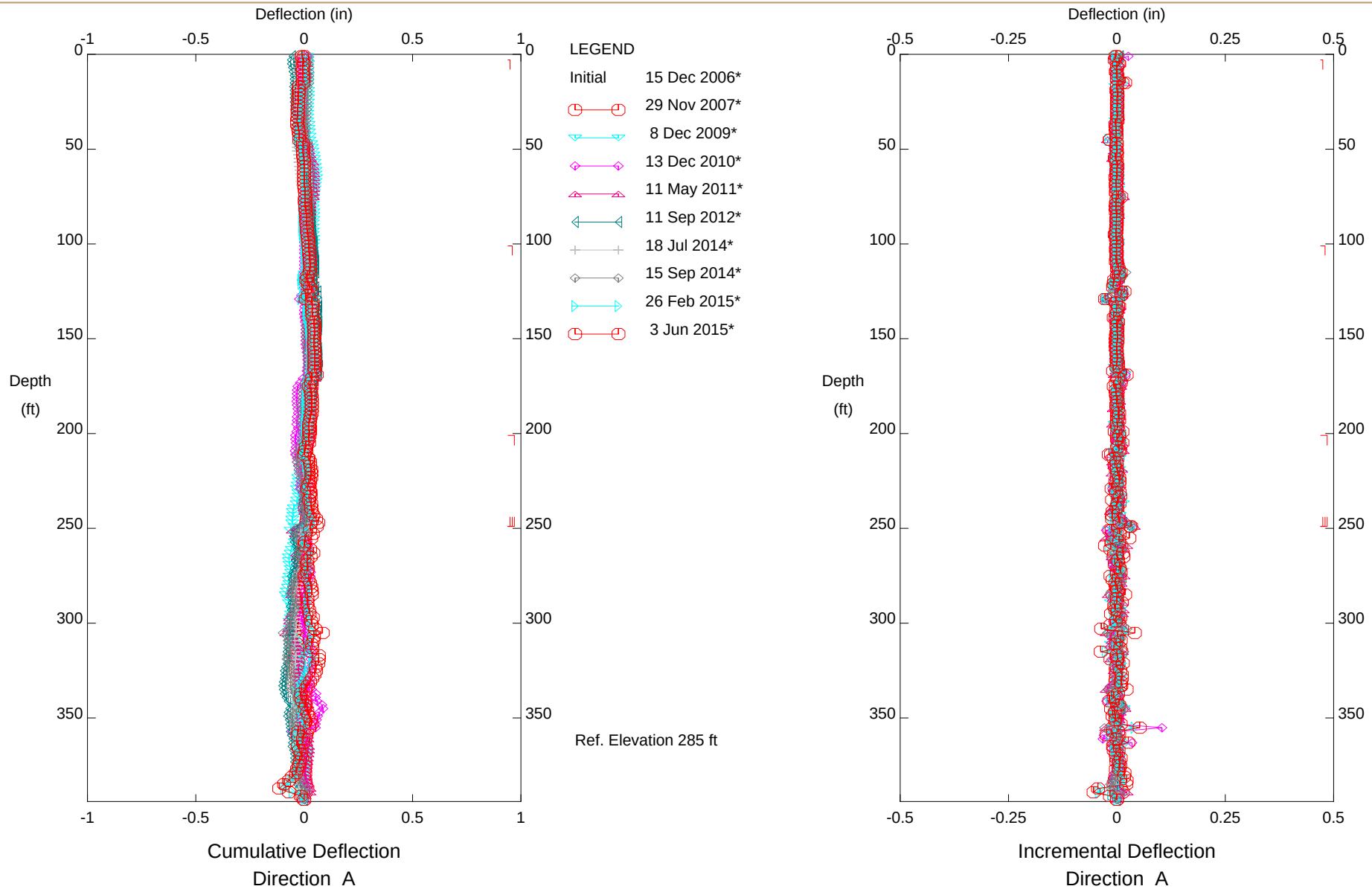
PLATE D-17c



BIG ROCK MESA, Inclinometer SP-9A

CENTRAL REGION

PLATE D-17d

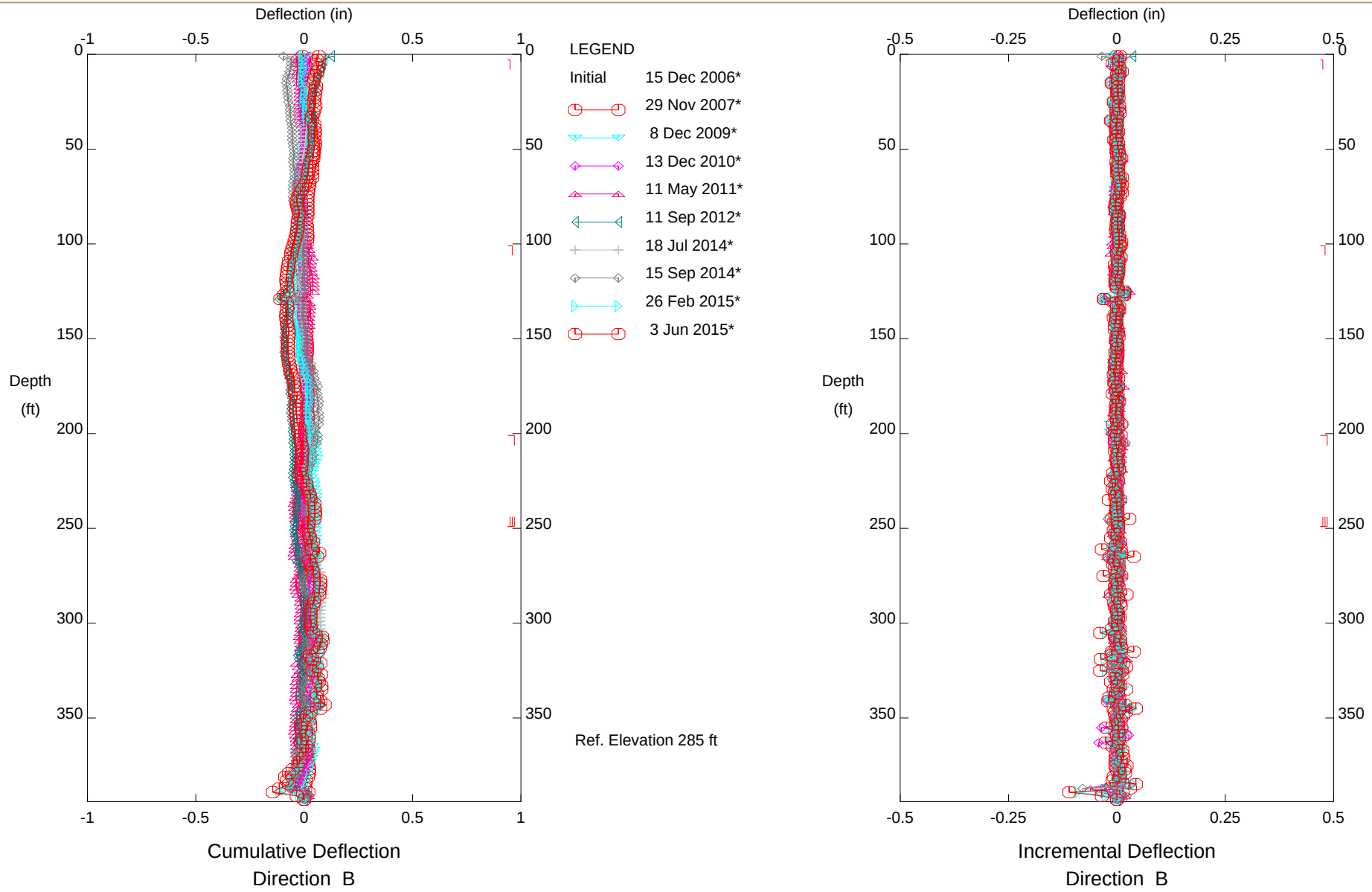


BIG ROCK MESA, Inclinometer SP-16A

CENTRAL REGION

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

PLATE D-18a

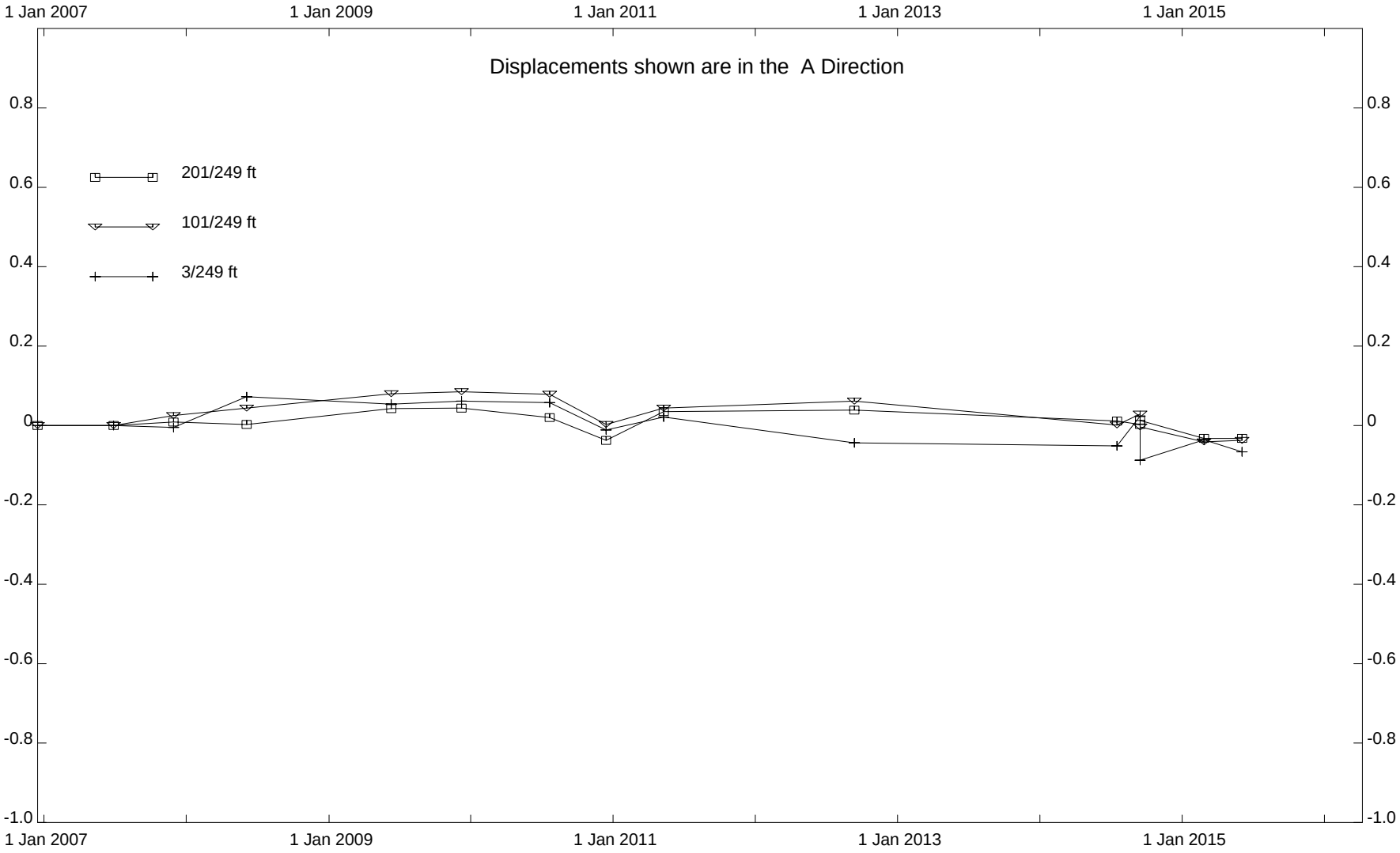


BIG ROCK MESA, Inclinometer SP-16A

CENTRAL REGION

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

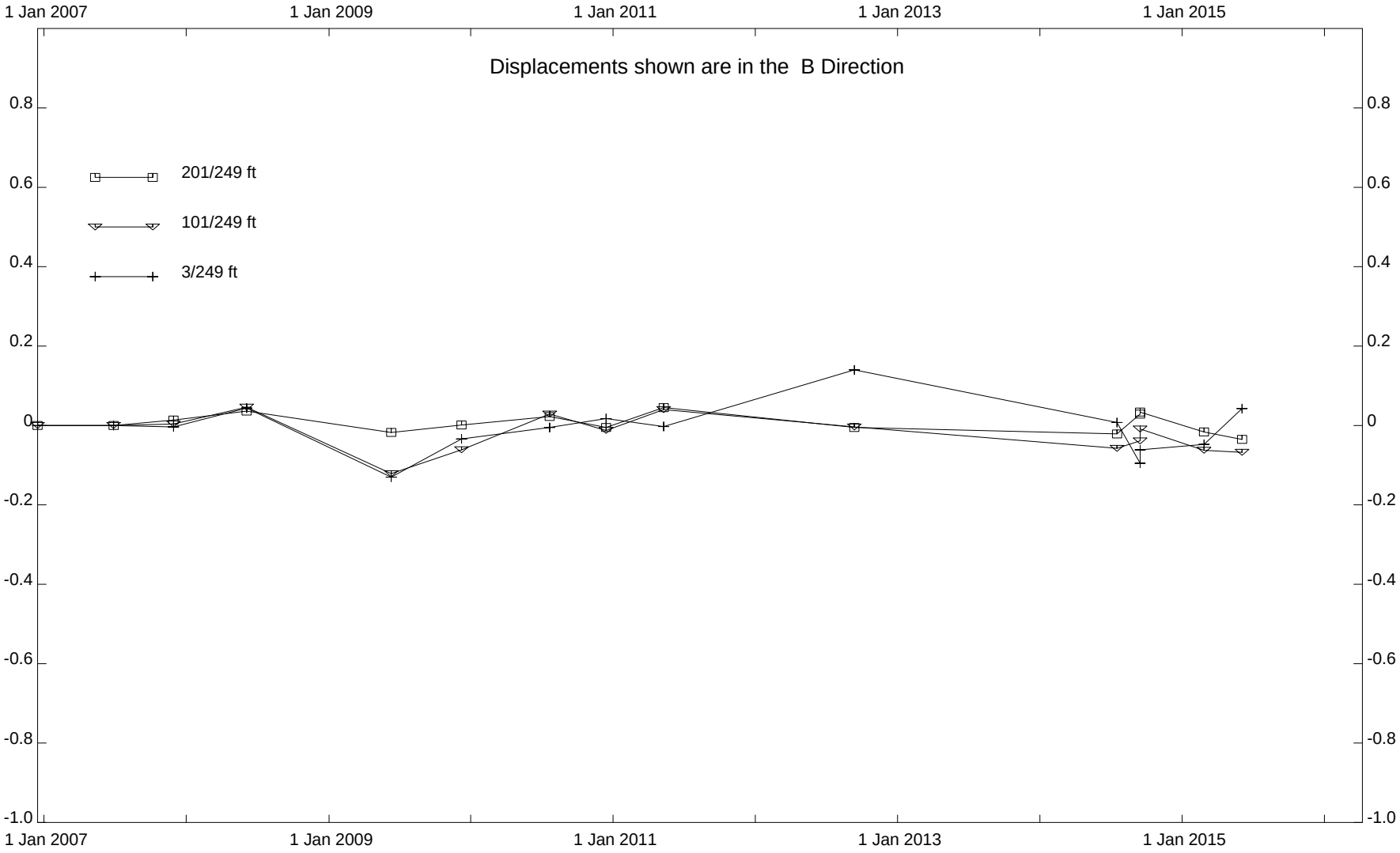
PLATE D-18b



BIG ROCK MESA, Inclinometer SP-16A

CENTRAL REGION

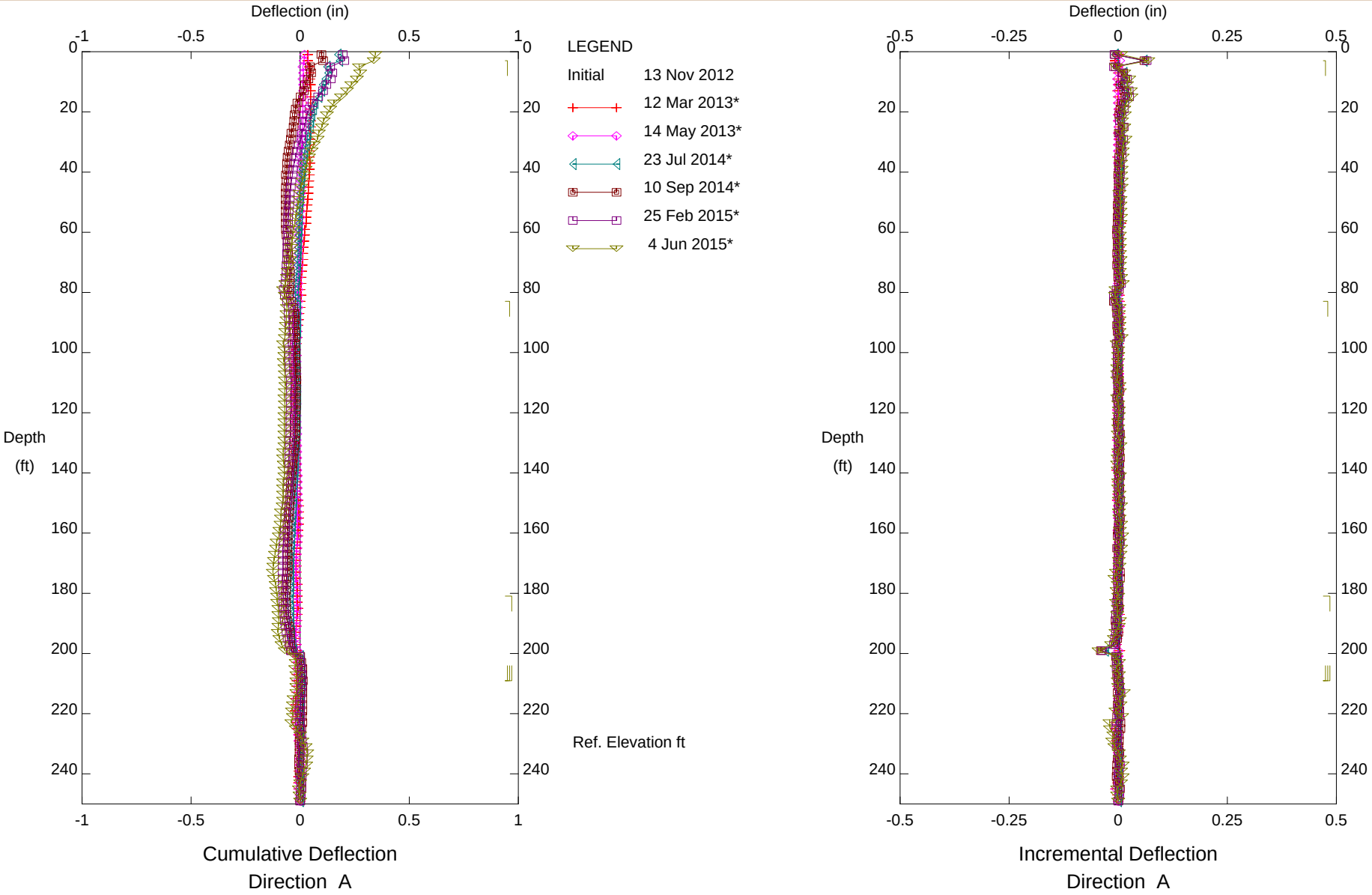
PLATE D-18c



BIG ROCK MESA, Inclinometer SP-16A

CENTRAL REGION

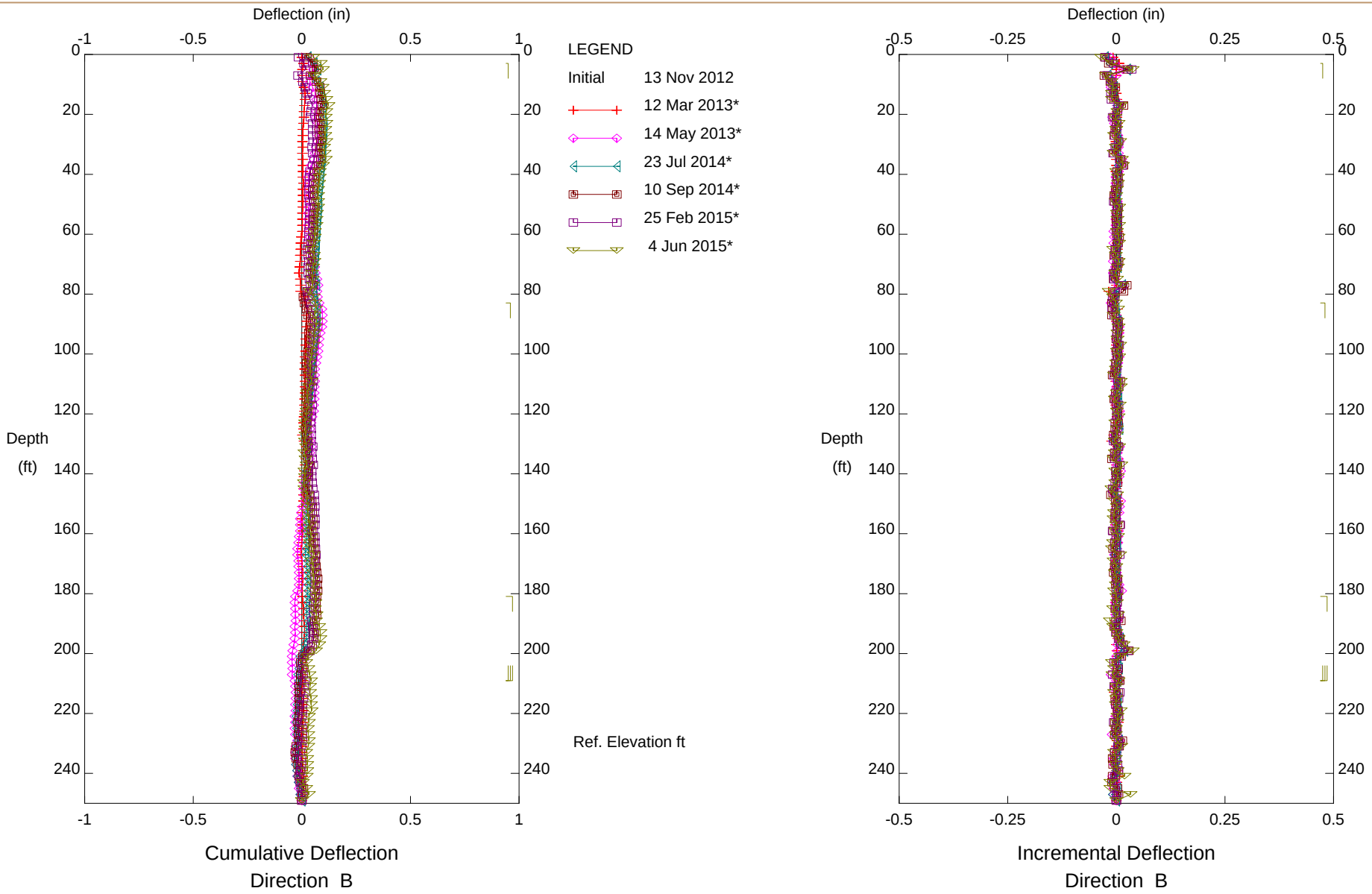
PLATE D-18d



BRM, Inclinometer SP-17B

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

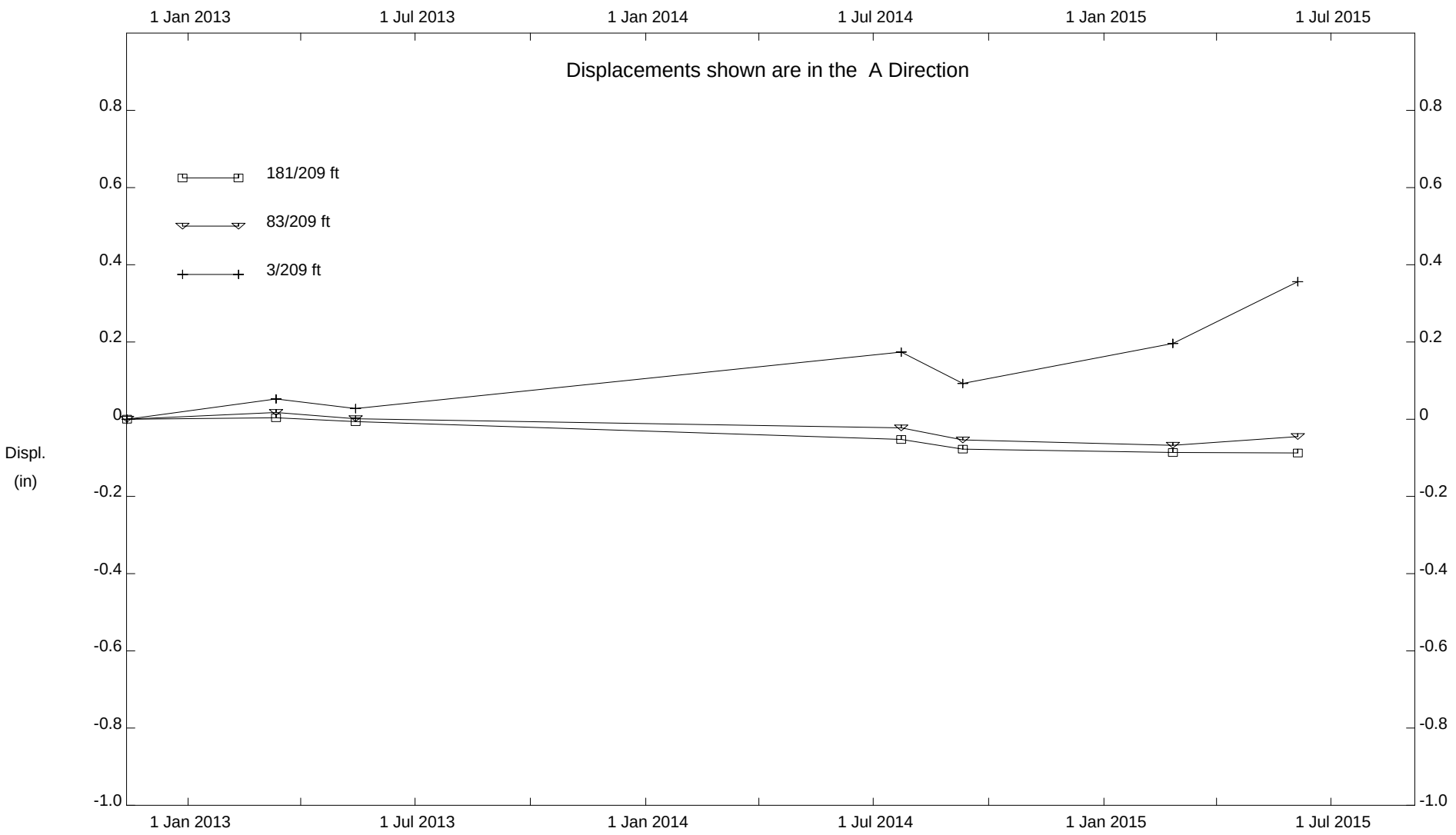
PLATE D-19a



BRM, Inclinometer SP-17B

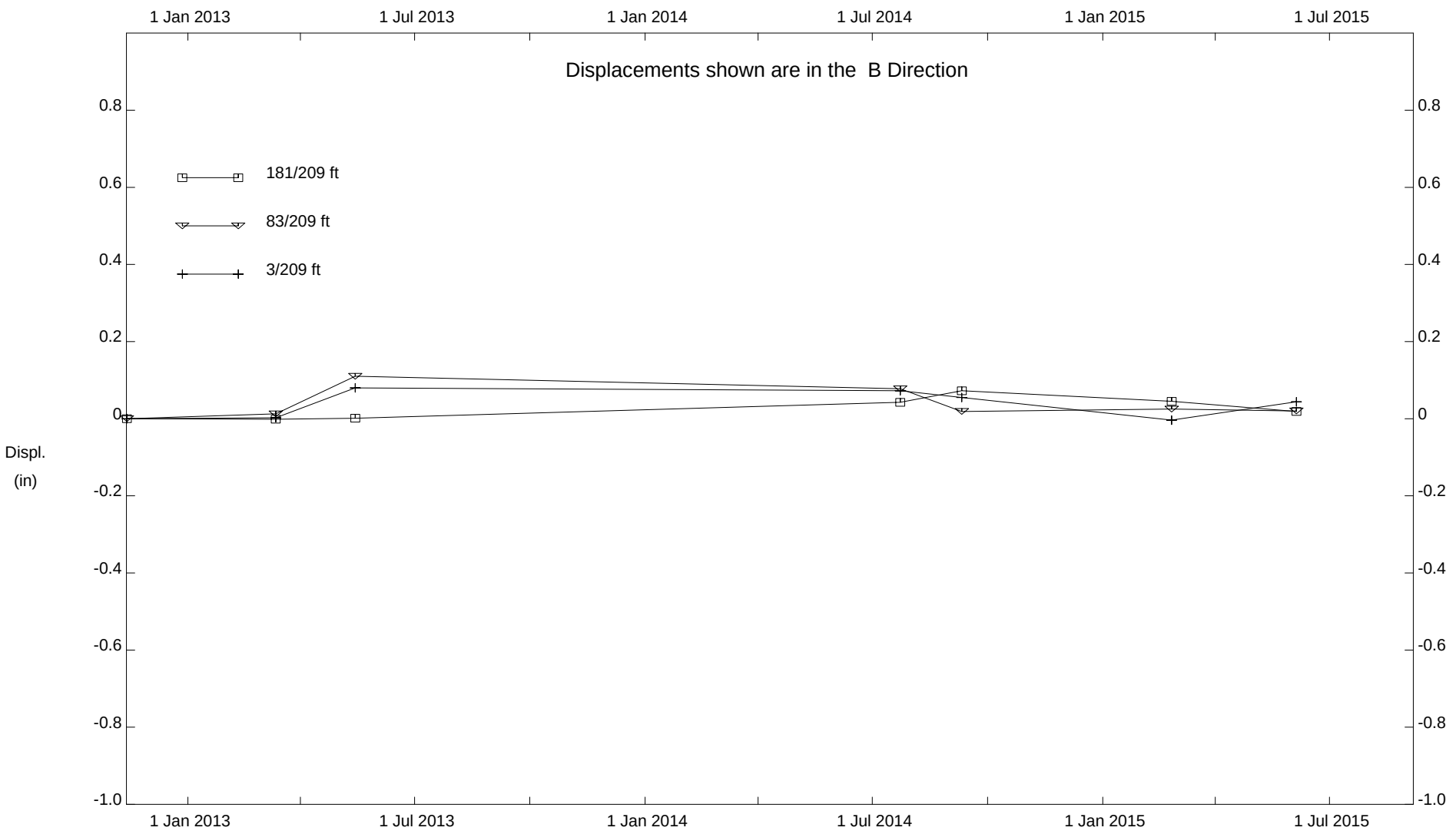
Sets marked * include zero shift and/or rotation corrections.

PLATE D-19b

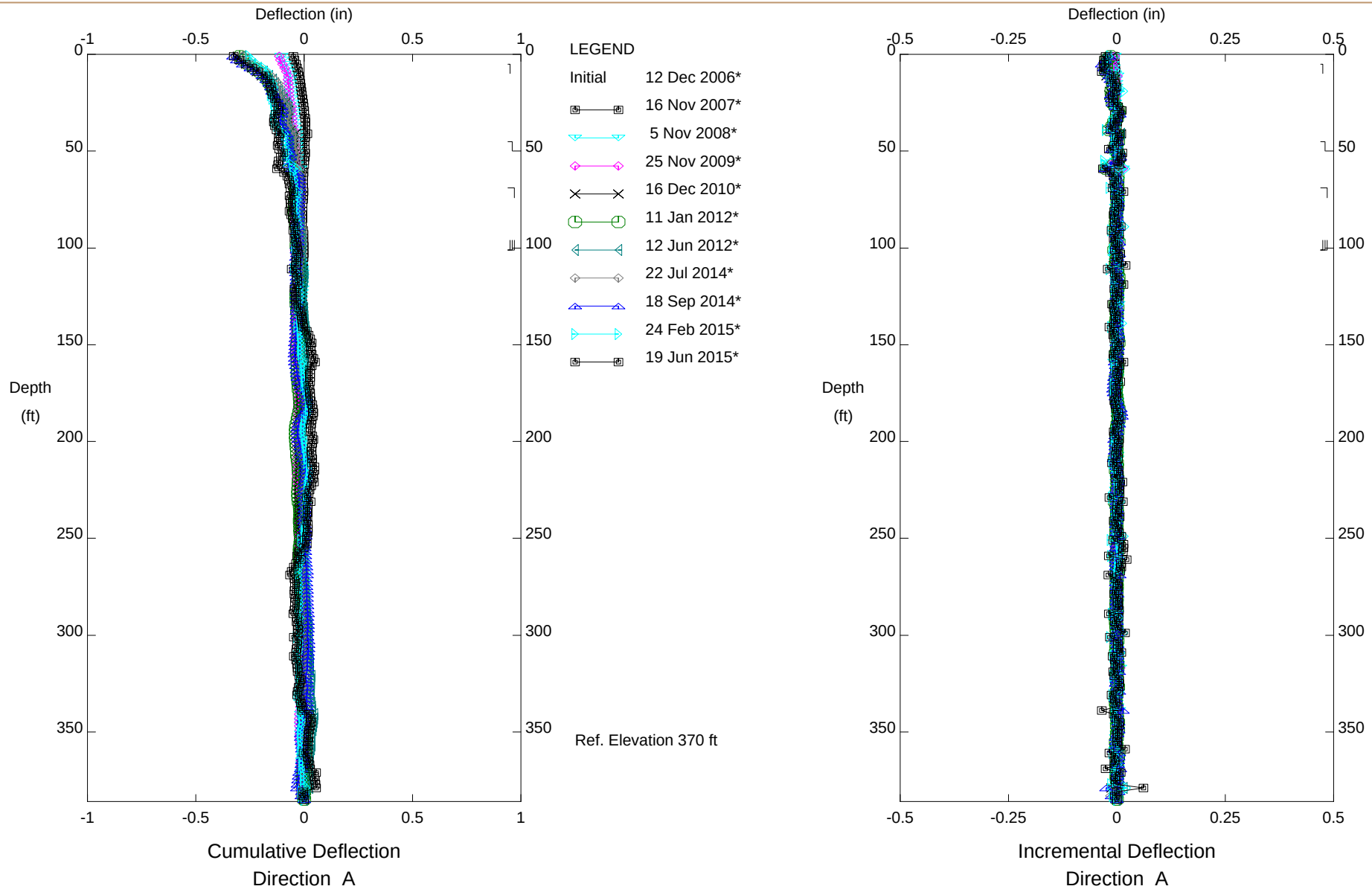


BRM, Inclinometer SP-17B

PLATE D-19c



BRM, Inclinometer SP-17B

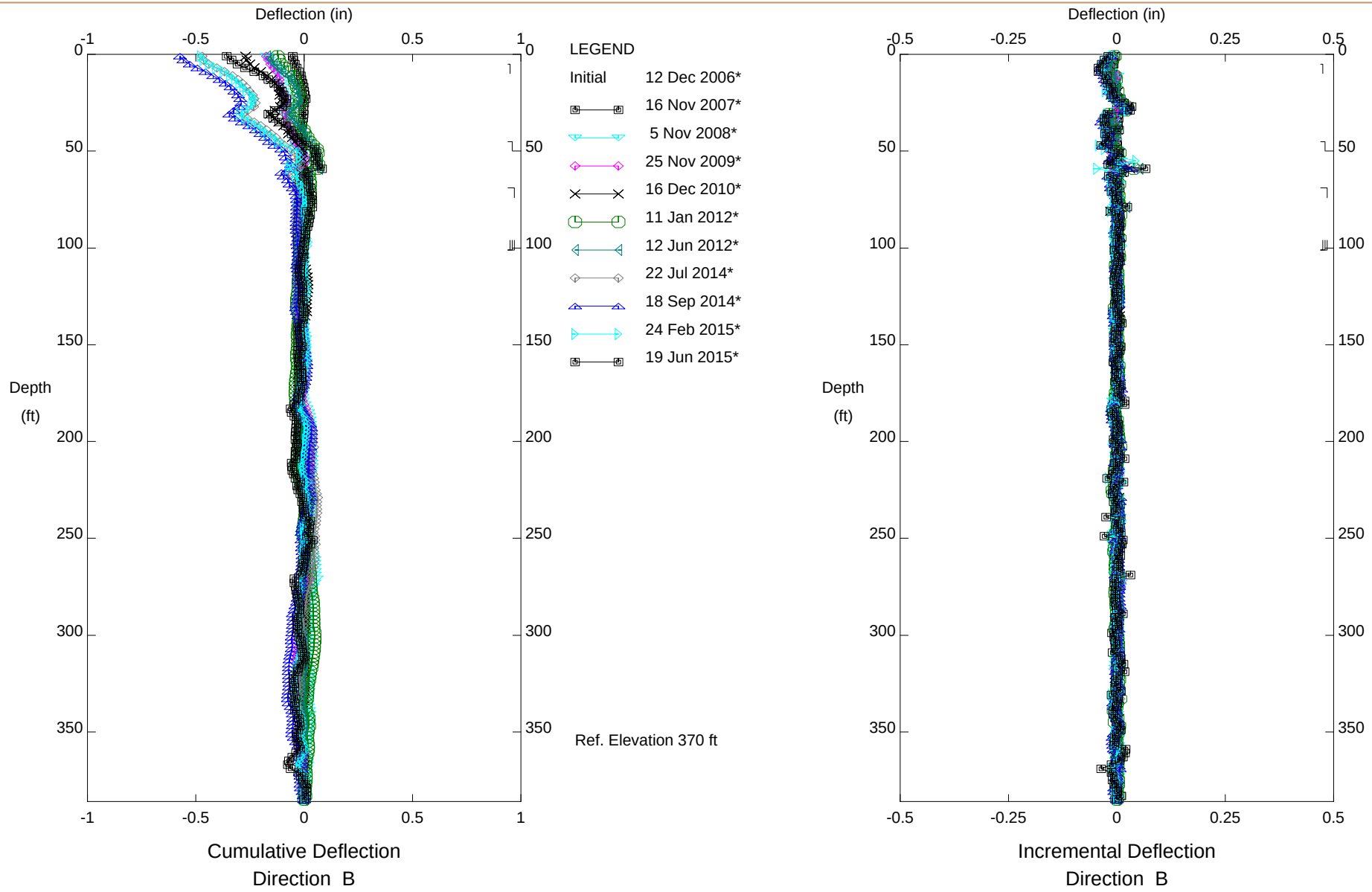


BIG ROCK MESA, Inclinometer SP-24

CENTRAL REGION

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

PLATE D-20a

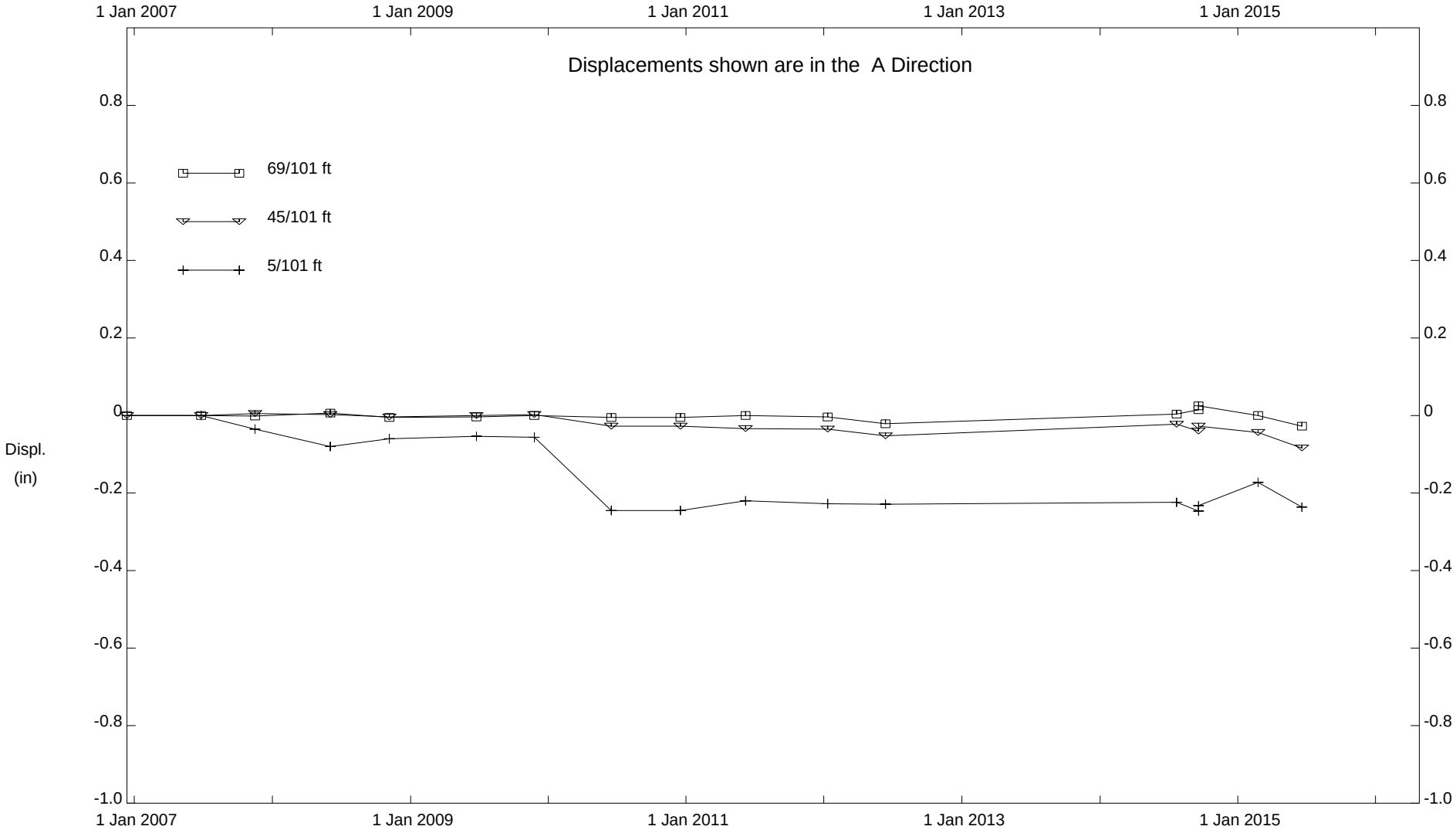


BIG ROCK MESA, Inclinometer SP-24

CENTRAL REGION

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

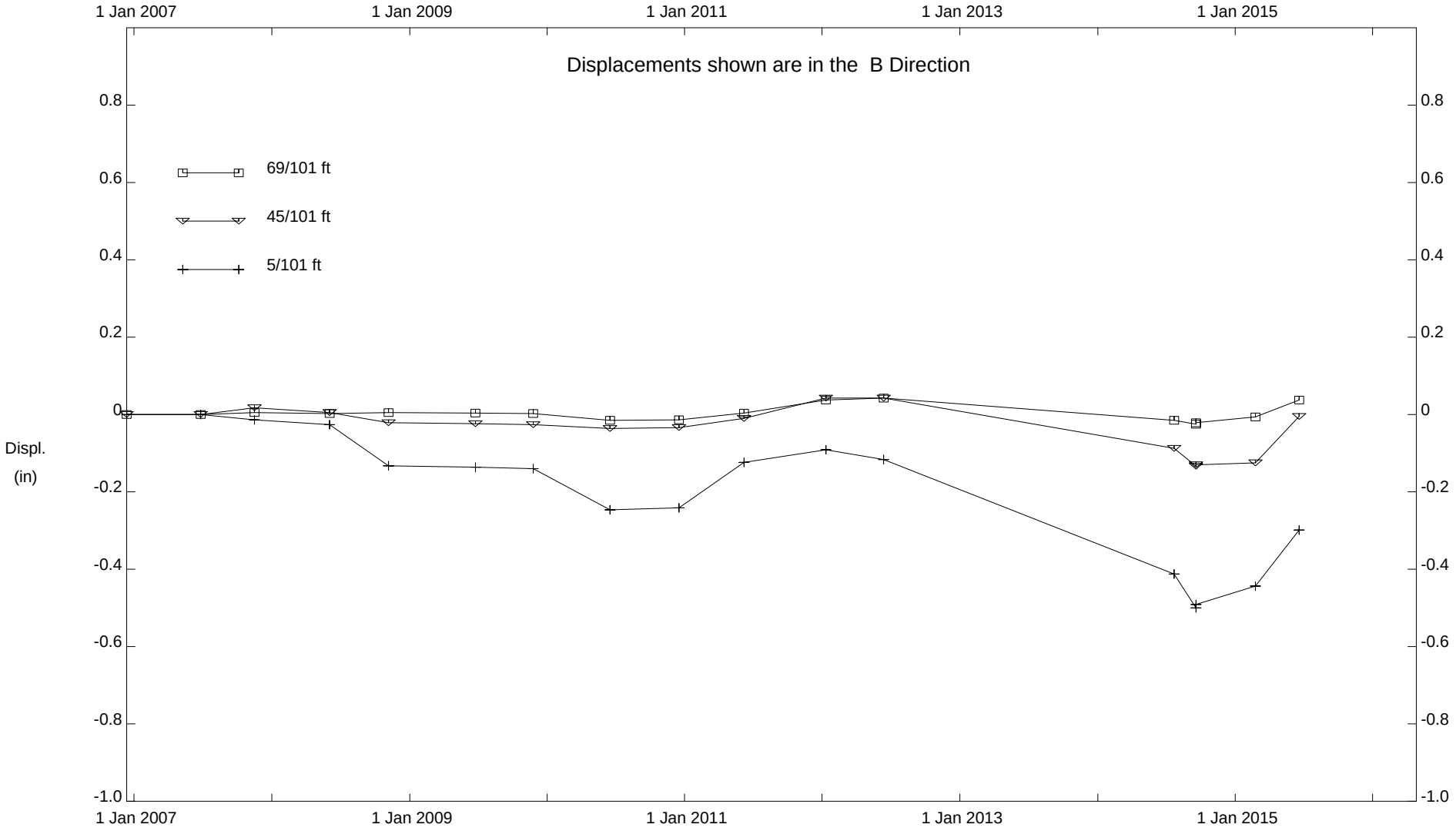
PLATE D-20b



BIG ROCK MESA, Inclinometer SP-24

CENTRAL REGION

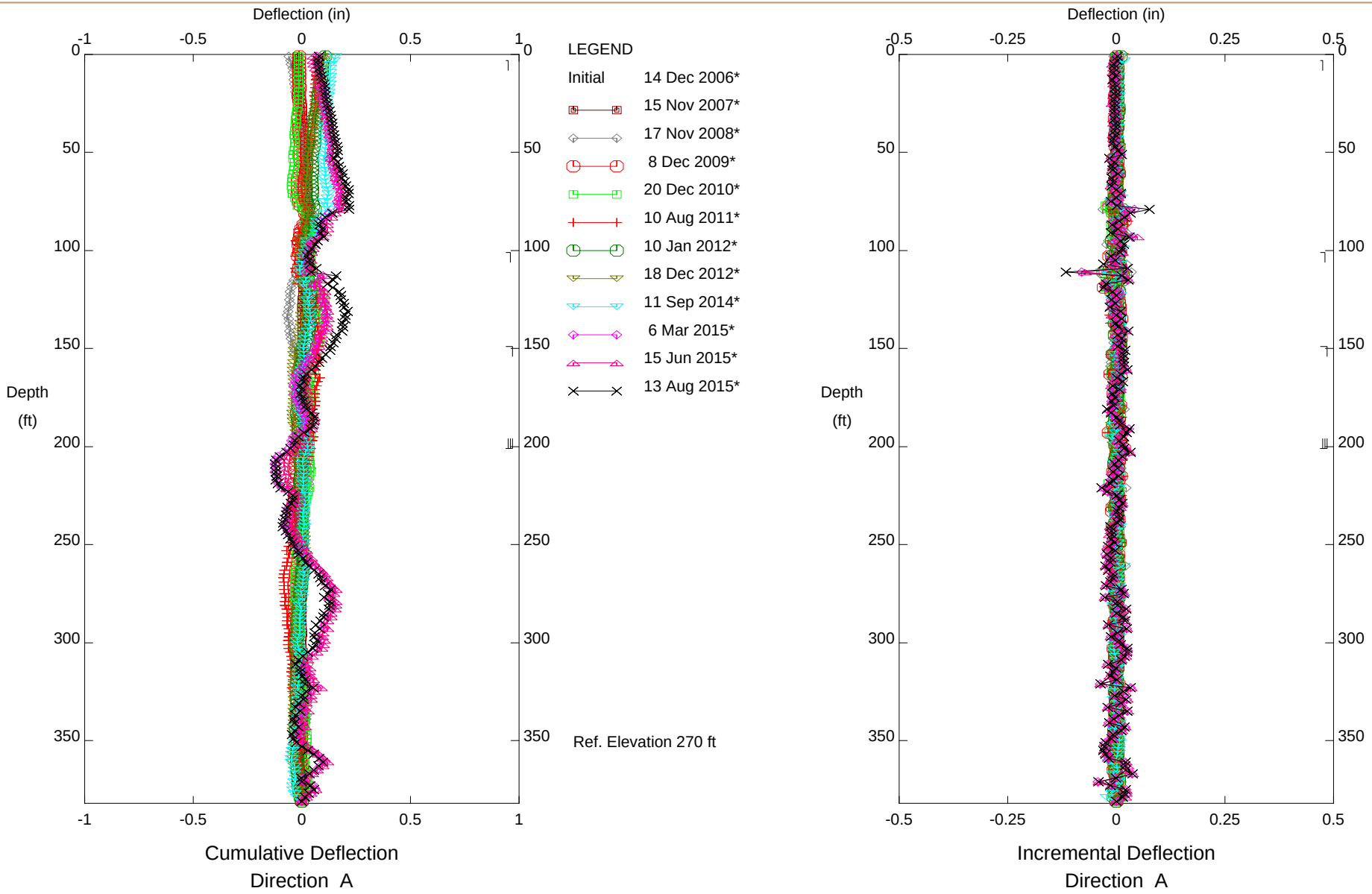
PLATE D-20c



BIG ROCK MESA, Inclinometer SP-24

CENTRAL REGION

PLATE D-20d

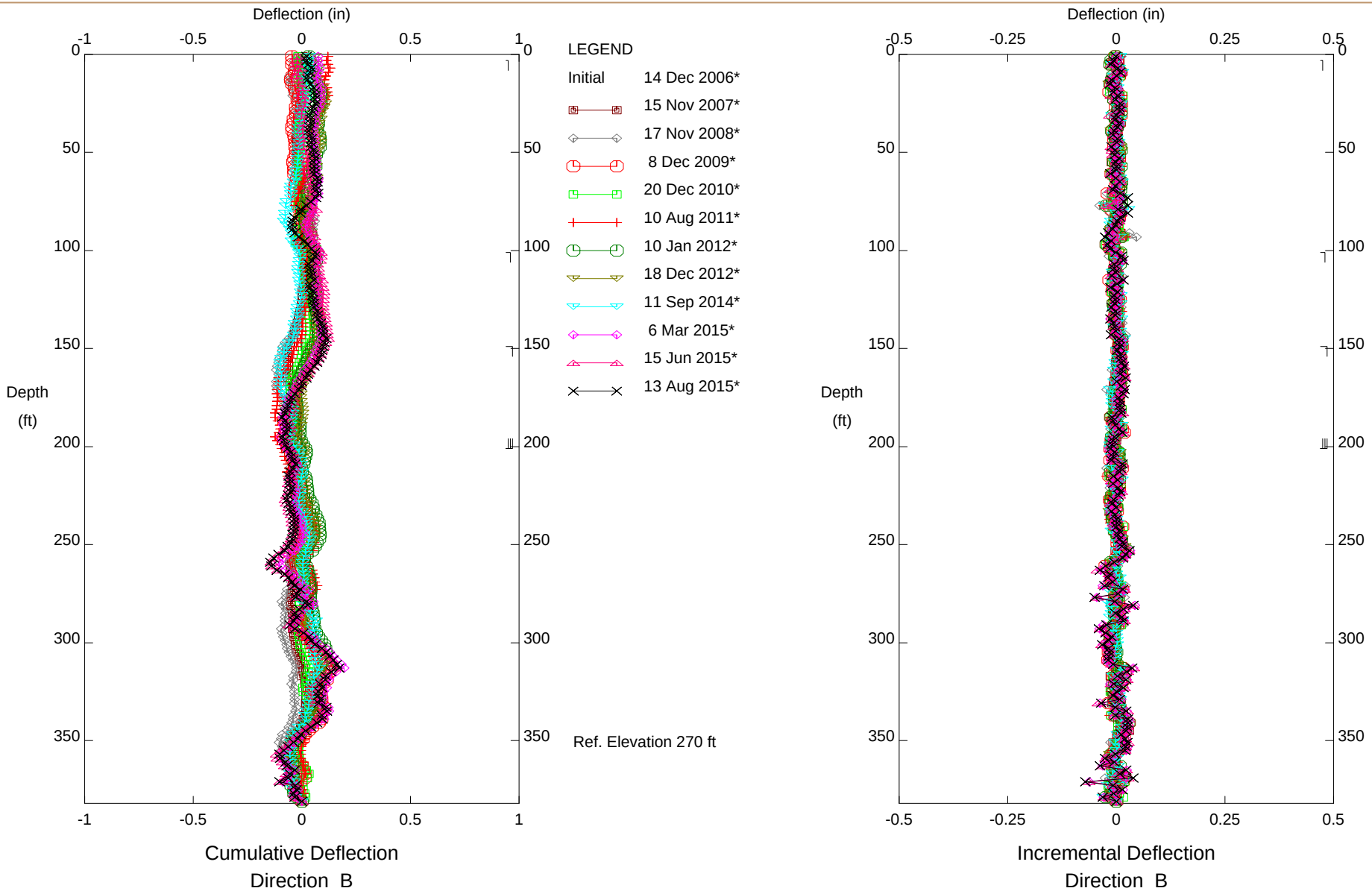


BIG ROCK MESA, Inclinometer SP-34

CENTRAL REGION

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

PLATE D-21a

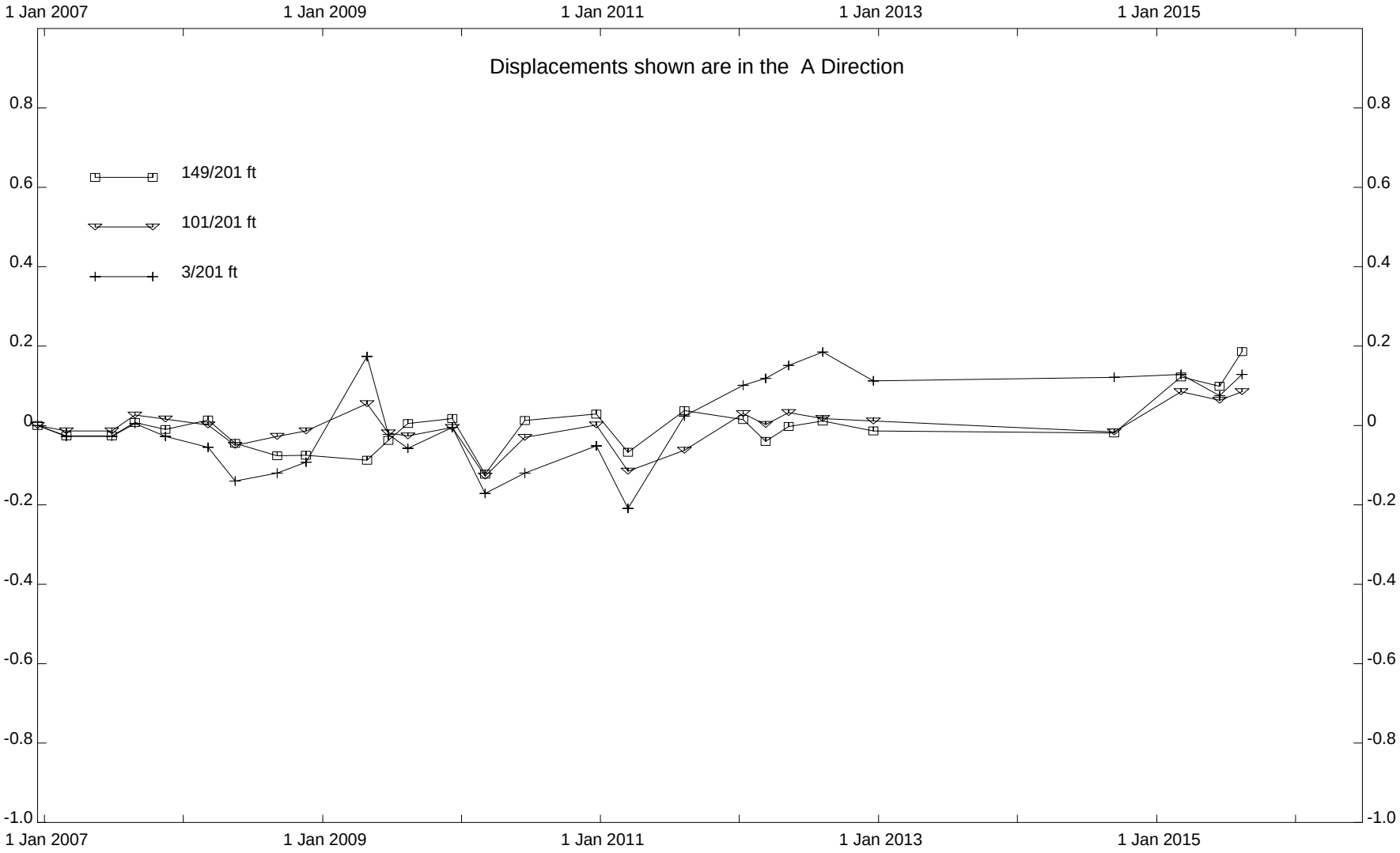


BIG ROCK MESA, Inclinometer SP-34

CENTRAL REGION

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

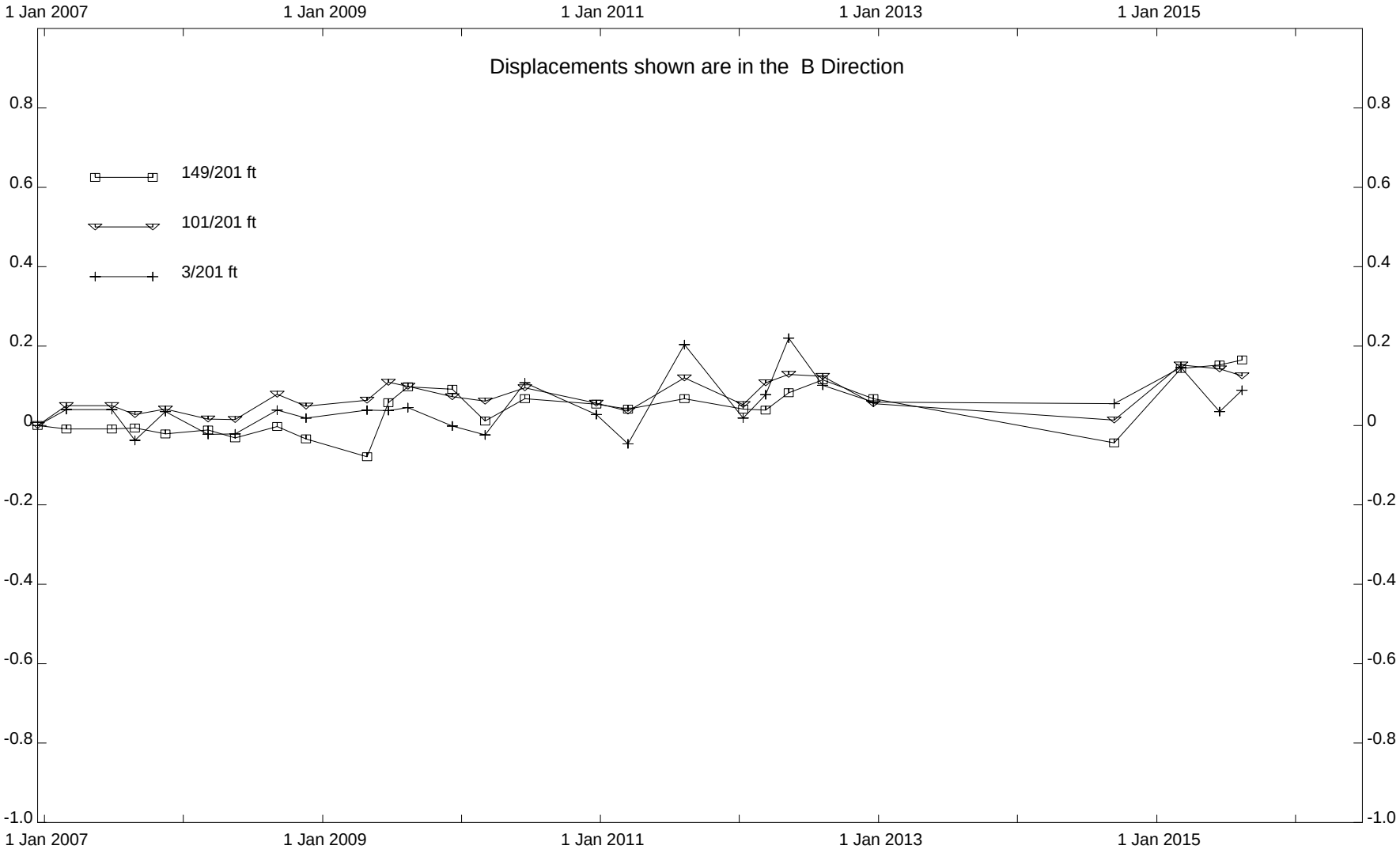
PLATE D-21b



BIG ROCK MESA, Inclinometer SP-34

CENTRAL REGION

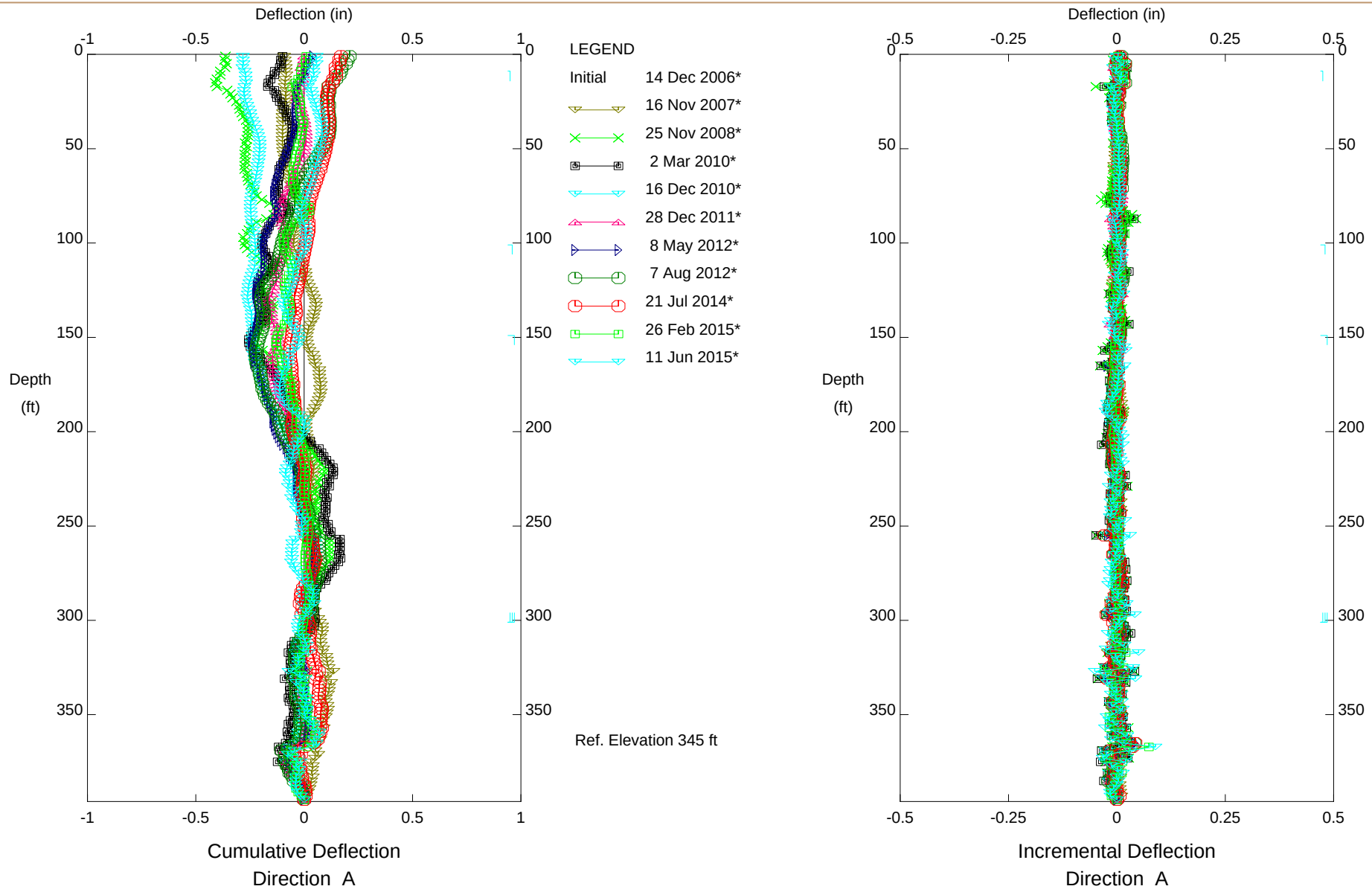
PLATE D-21c



BIG ROCK MESA, Inclinometer SP-34

CENTRAL REGION

PLATE D-21d

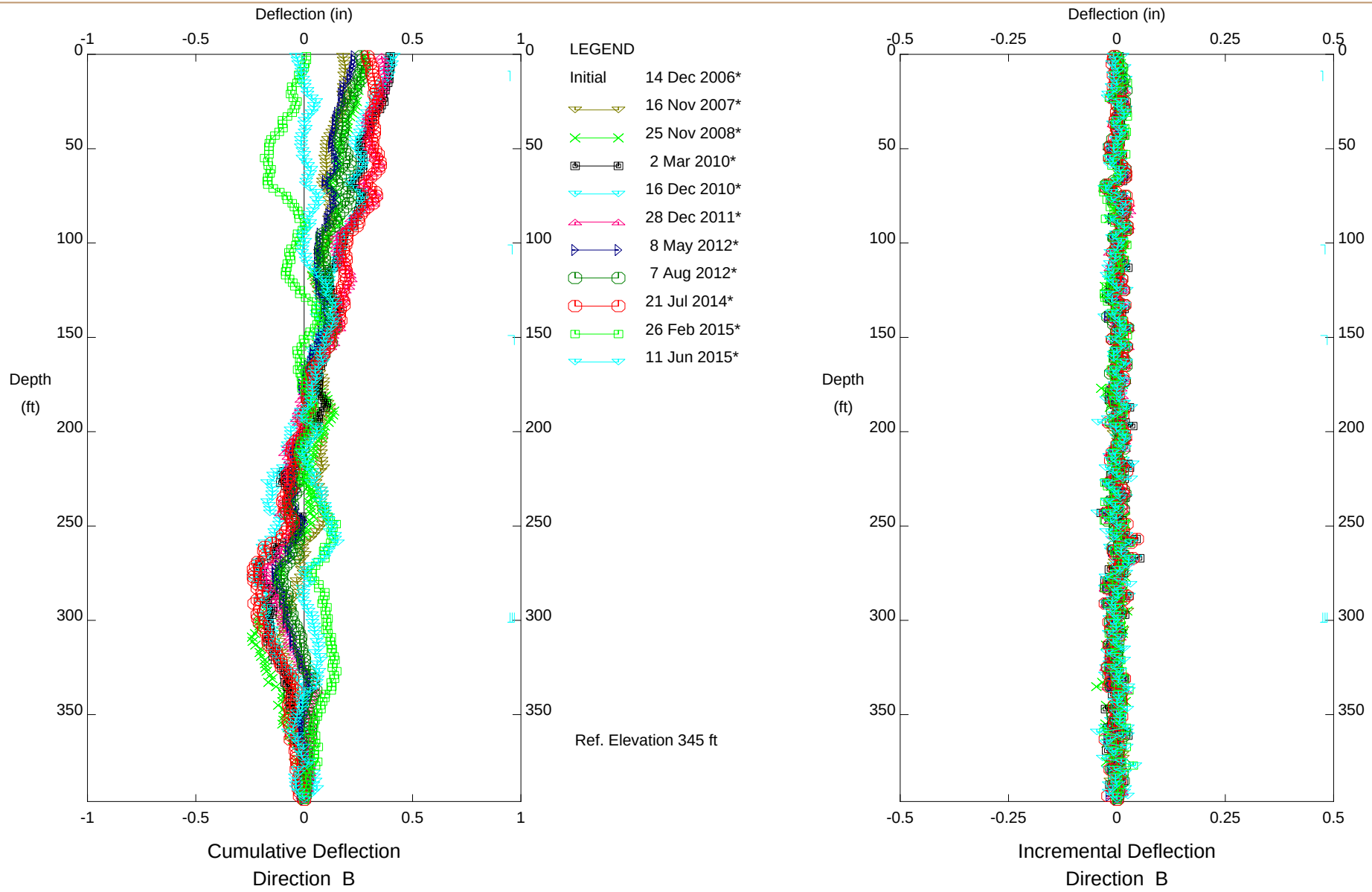


BIG ROCK MESA, Inclinometer SP-35

CENTRAL REGION

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

PLATE D-22a

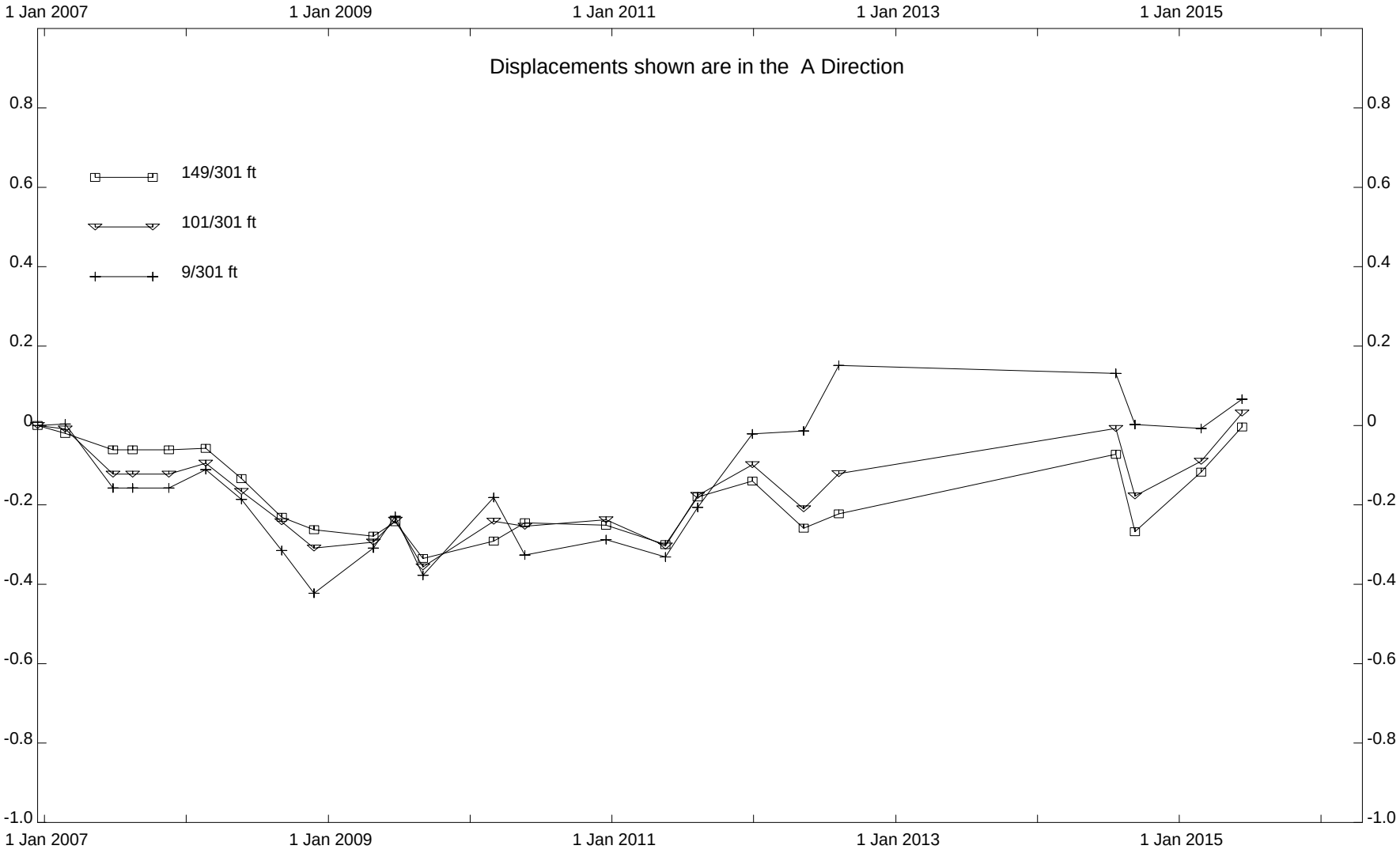


BIG ROCK MESA, Inclinometer SP-35

CENTRAL REGION

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

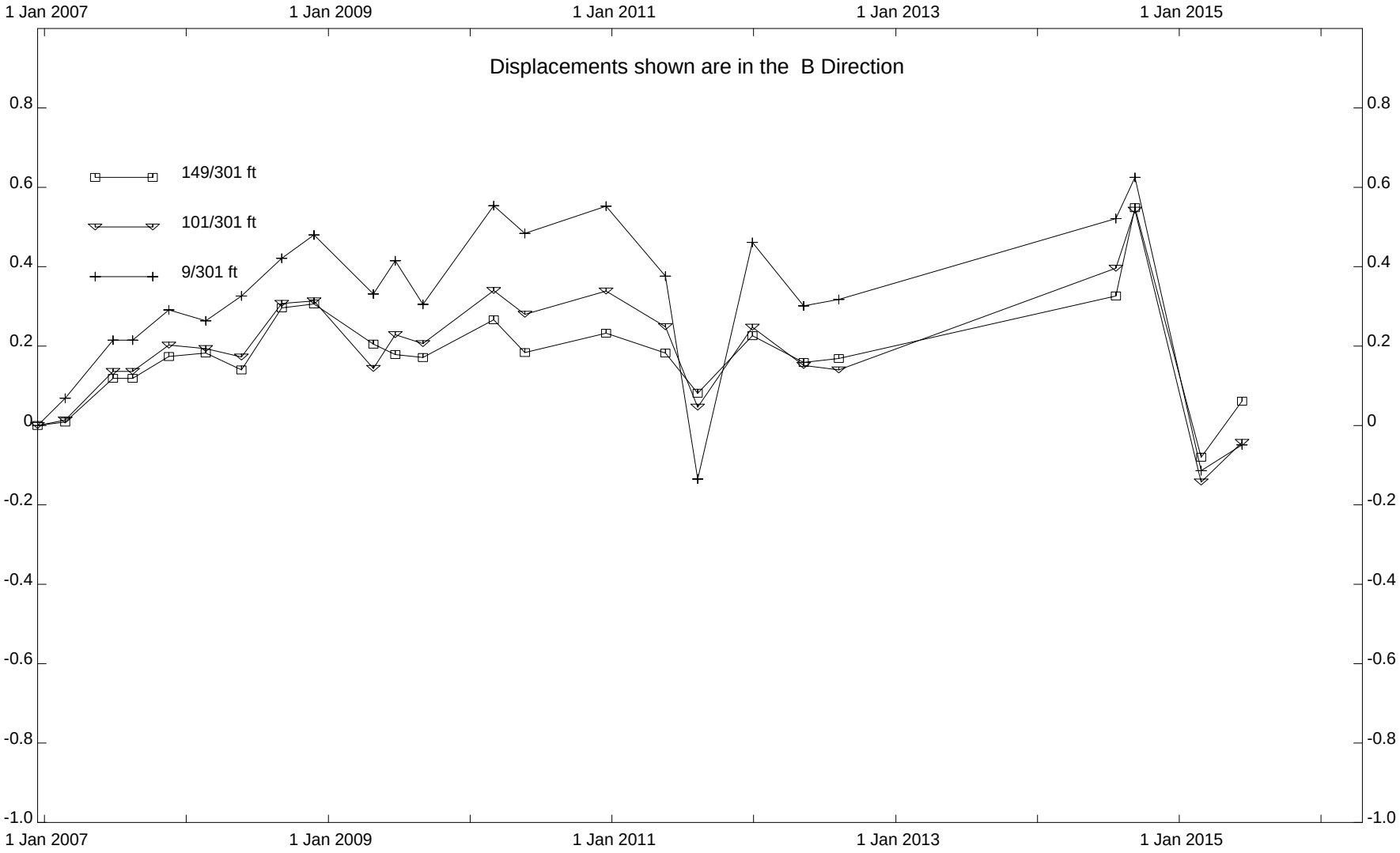
PLATE D-22b



BIG ROCK MESA, Inclinometer SP-35

CENTRAL REGION

PLATE D-22c

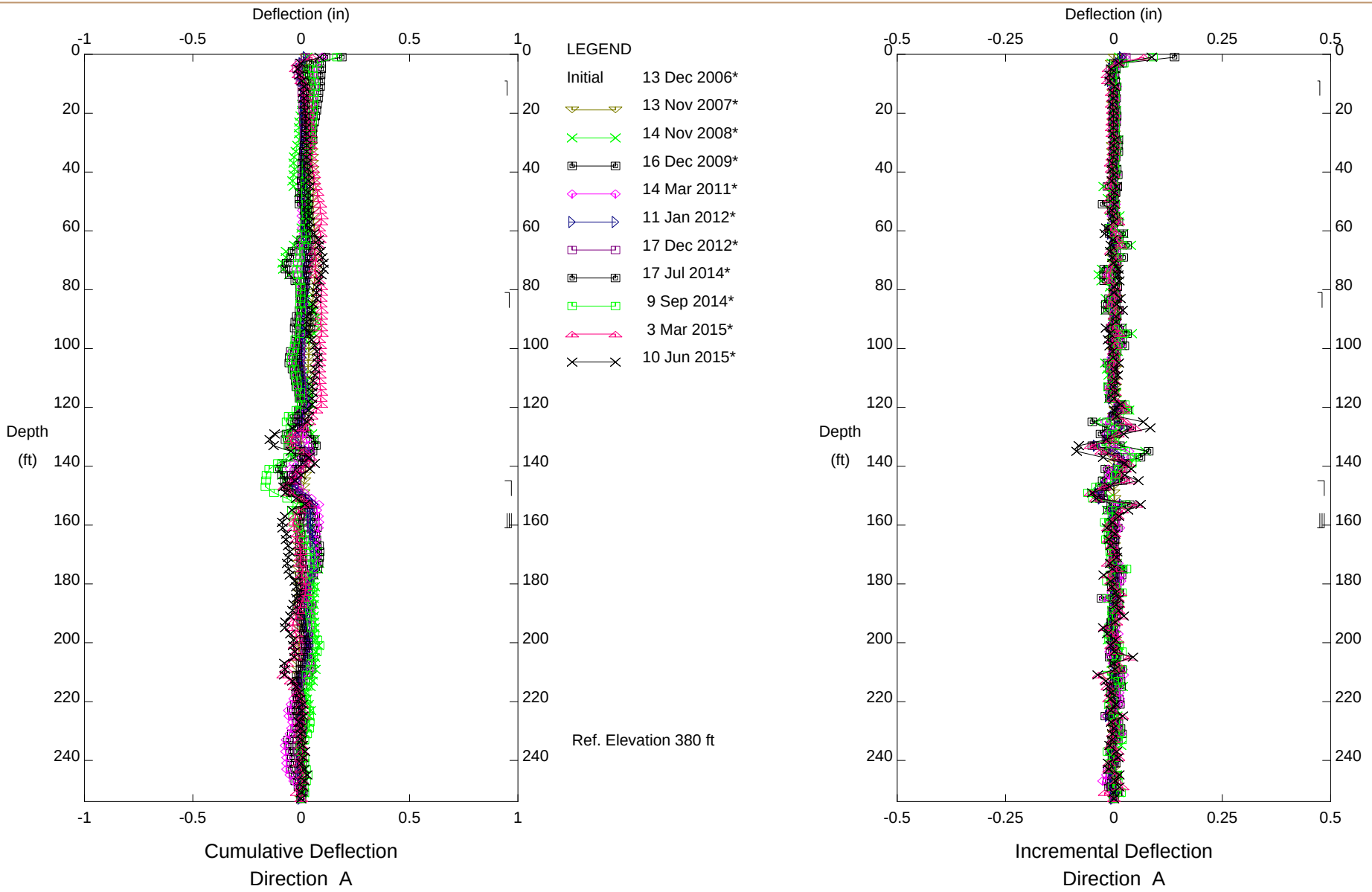


BIG ROCK MESA, Inclinometer SP-35

CENTRAL REGION

PLATE D-22d

Fugro Consultants, Inc. - Ventura, CA



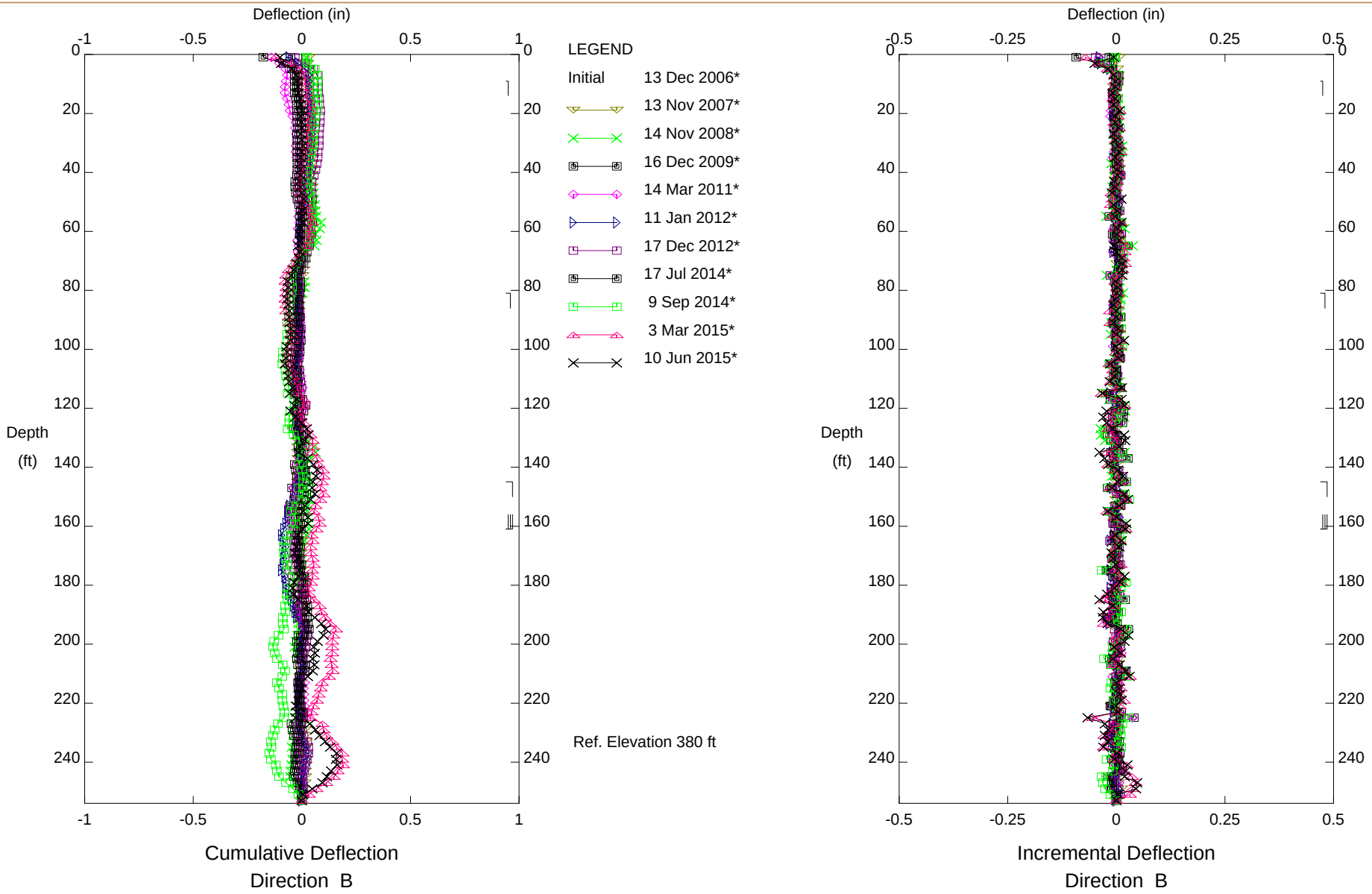
BIG ROCK MESA, Inclinometer SP-36

CENTRAL REGION

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

PLATE D-23a

C:\CADFiles\MalibuInclinometers\Big Rock GTL\BRM 2014-2015 Annual\SP36.gtl

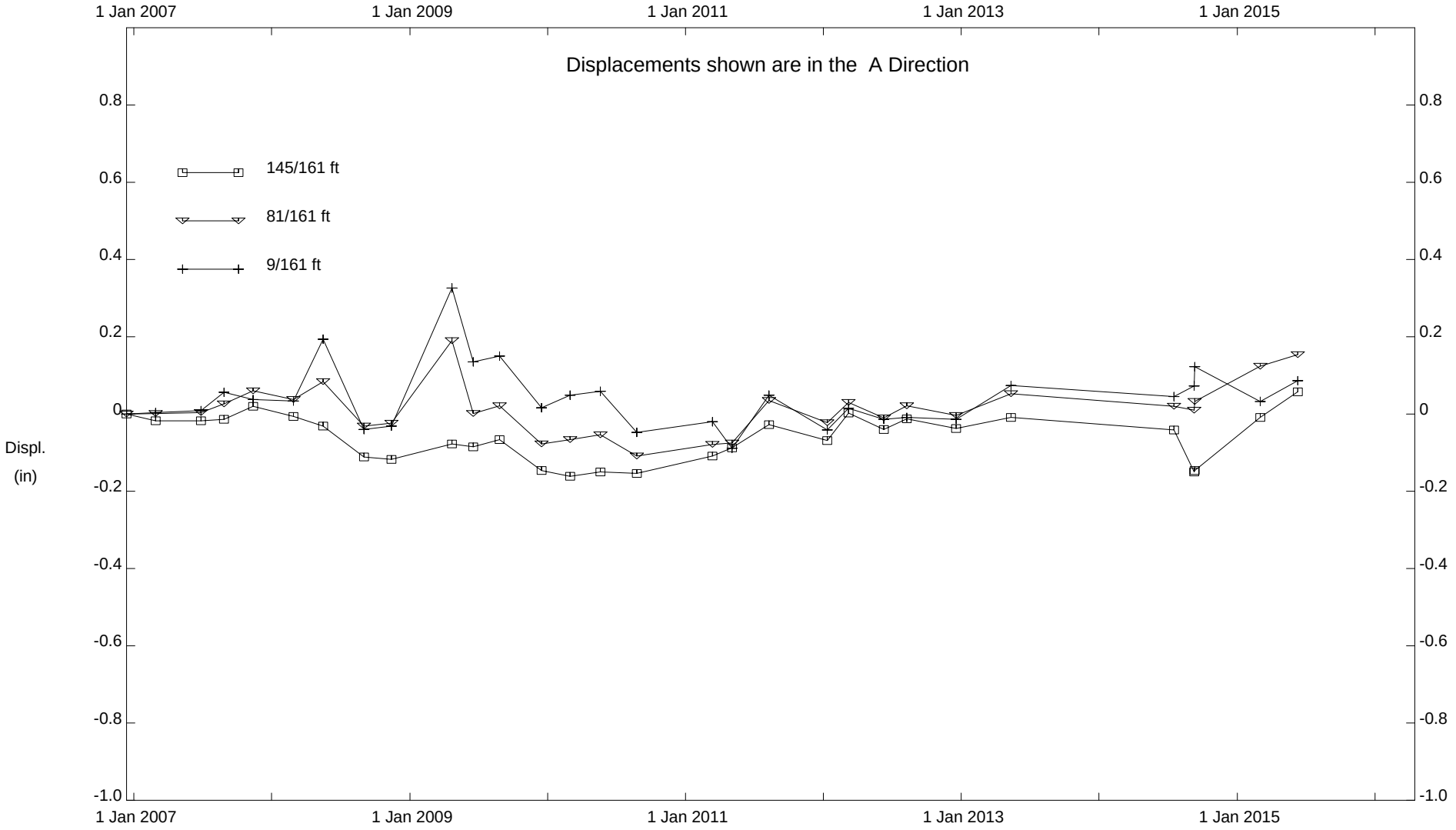


BIG ROCK MESA, Inclinometer SP-36

CENTRAL REGION

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

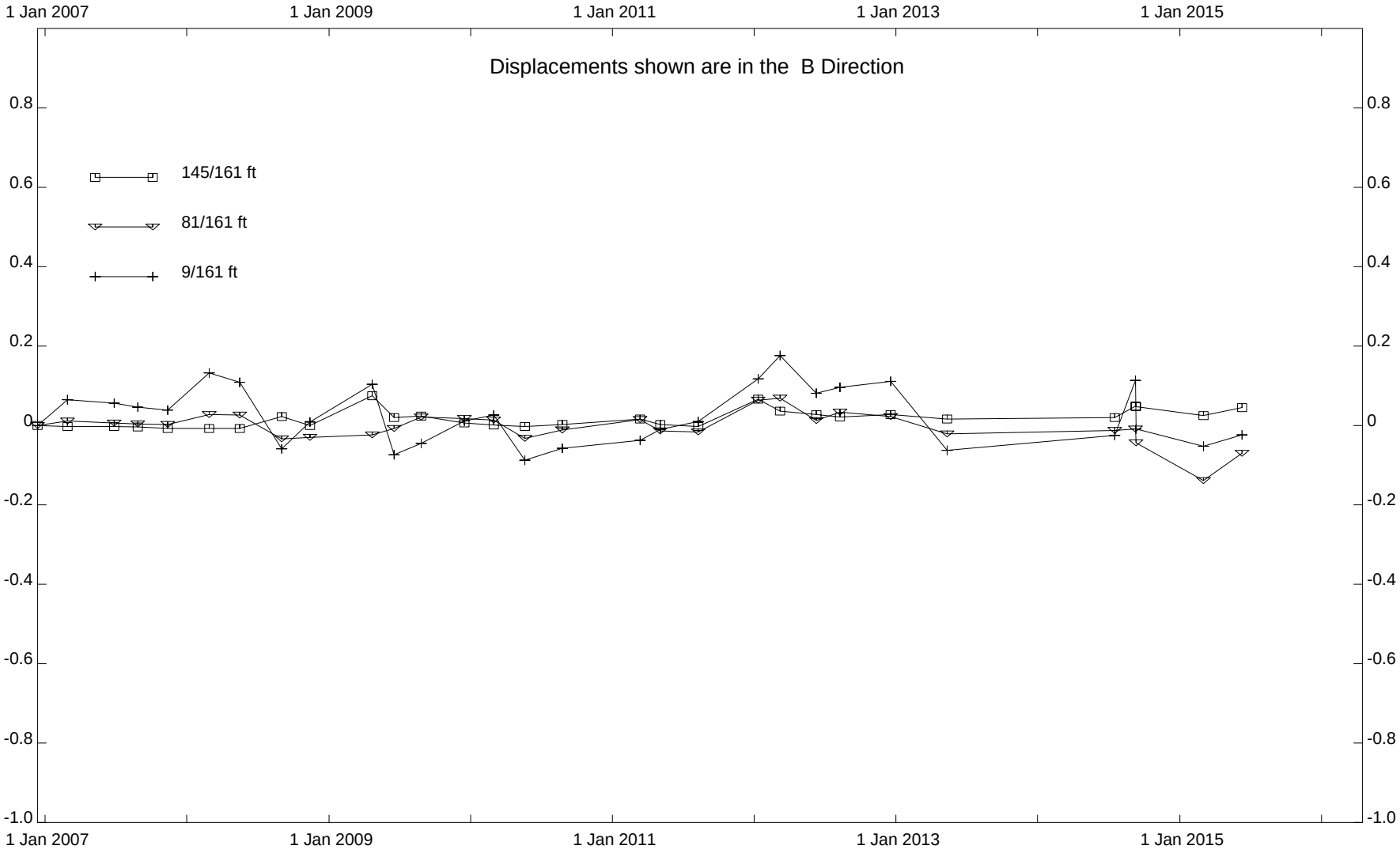
PLATE D-23b



BIG ROCK MESA, Inclinometer SP-36

CENTRAL REGION

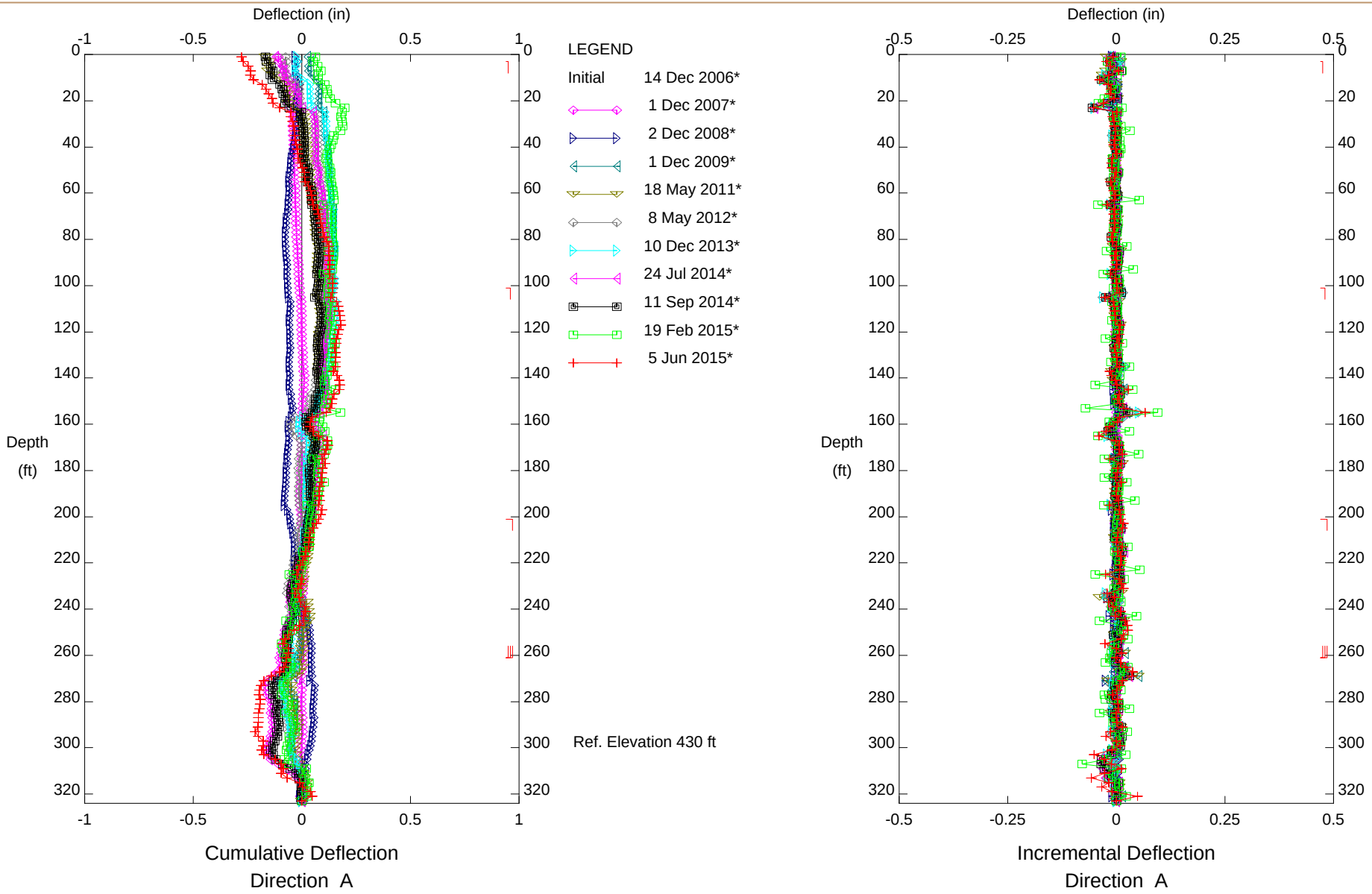
PLATE D-23c



BIG ROCK MESA, Inclinometer SP-36

CENTRAL REGION

PLATE D-23d

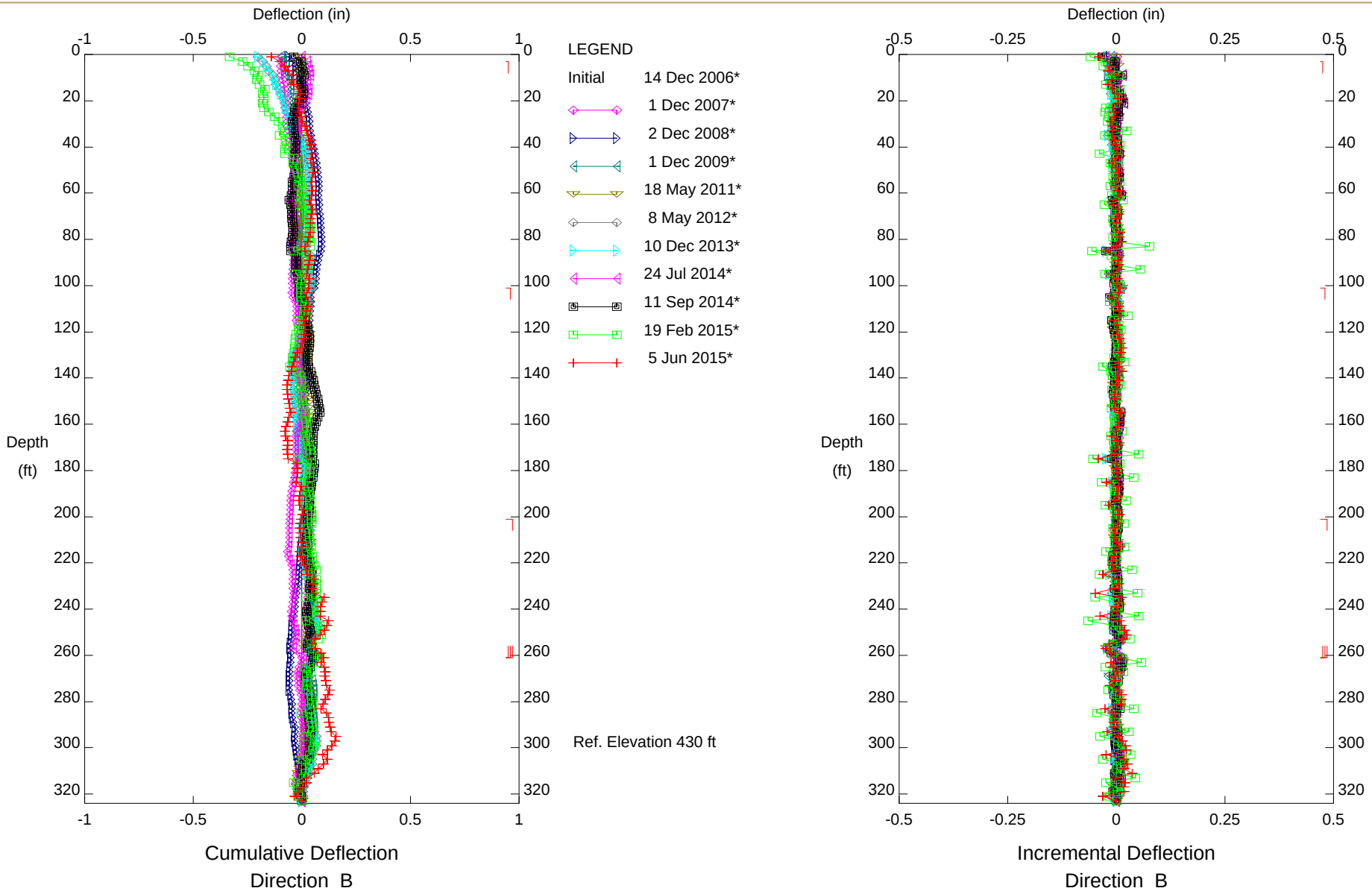


BIG ROCK MESA, Inclinometer SP-20

WESTERN REGION

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

PLATE D-24a

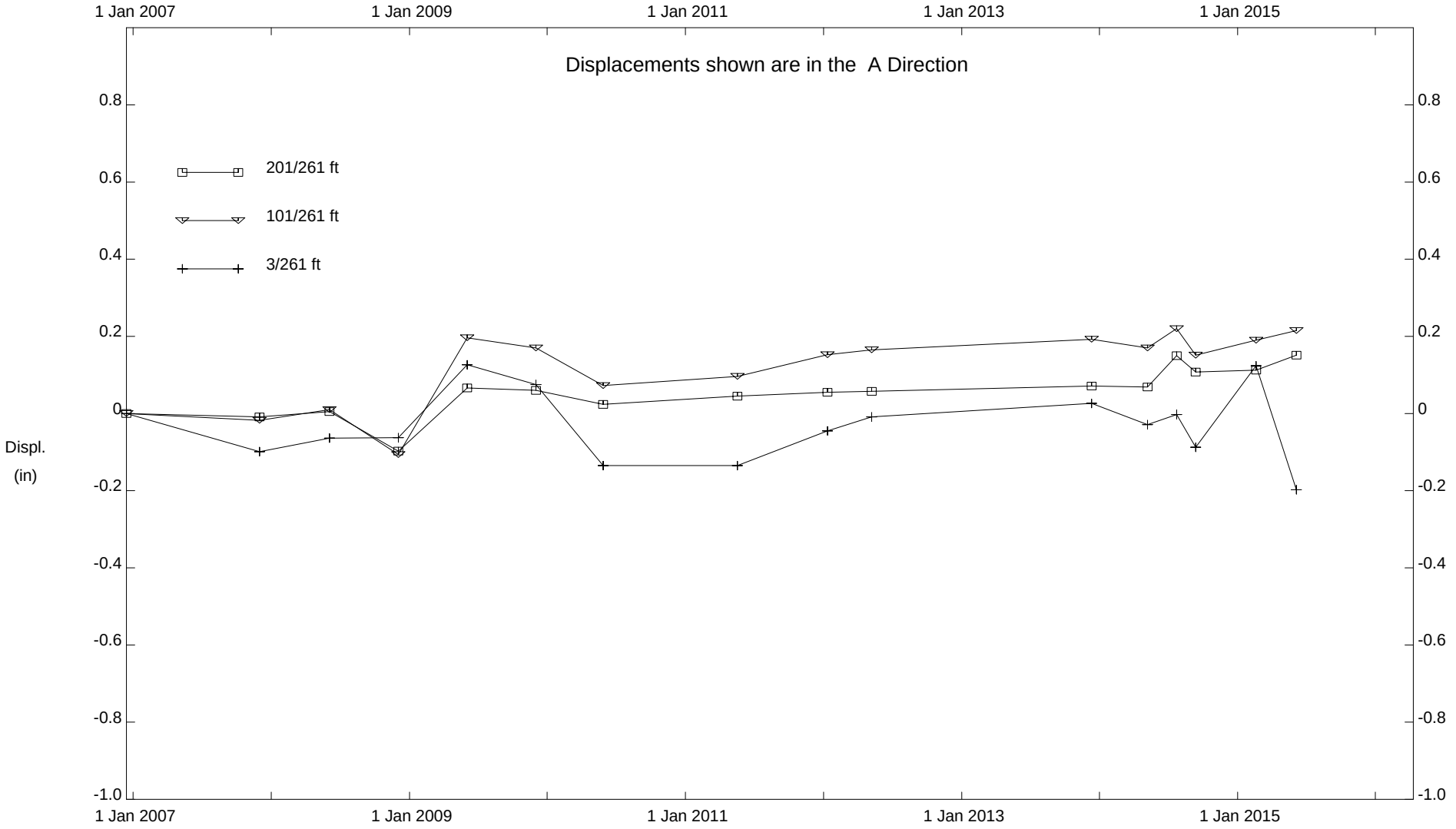


BIG ROCK MESA, Inclinometer SP-20

WESTERN REGION

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

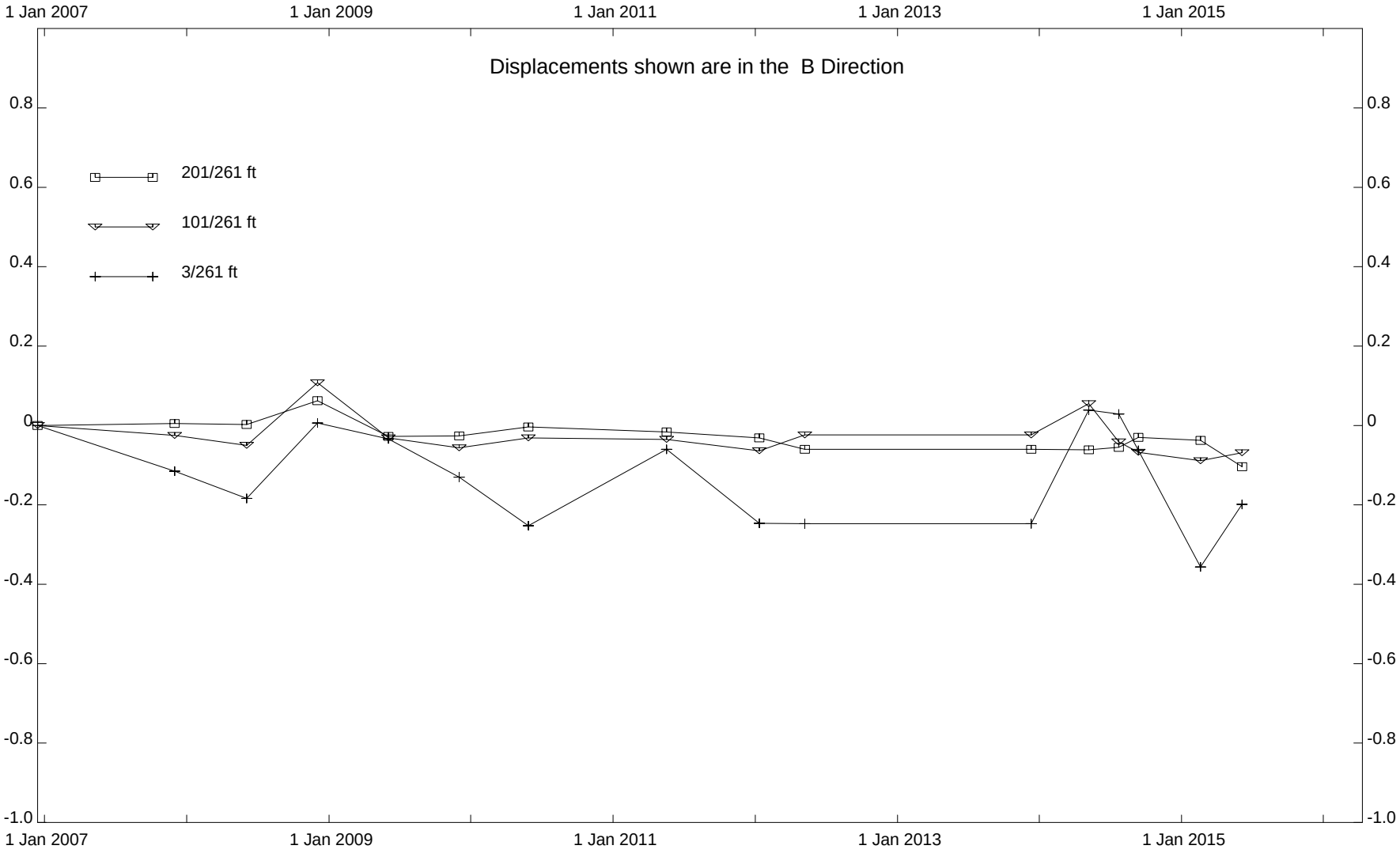
PLATE D-24b



BIG ROCK MESA, Inclinometer SP-20

WESTERN REGION

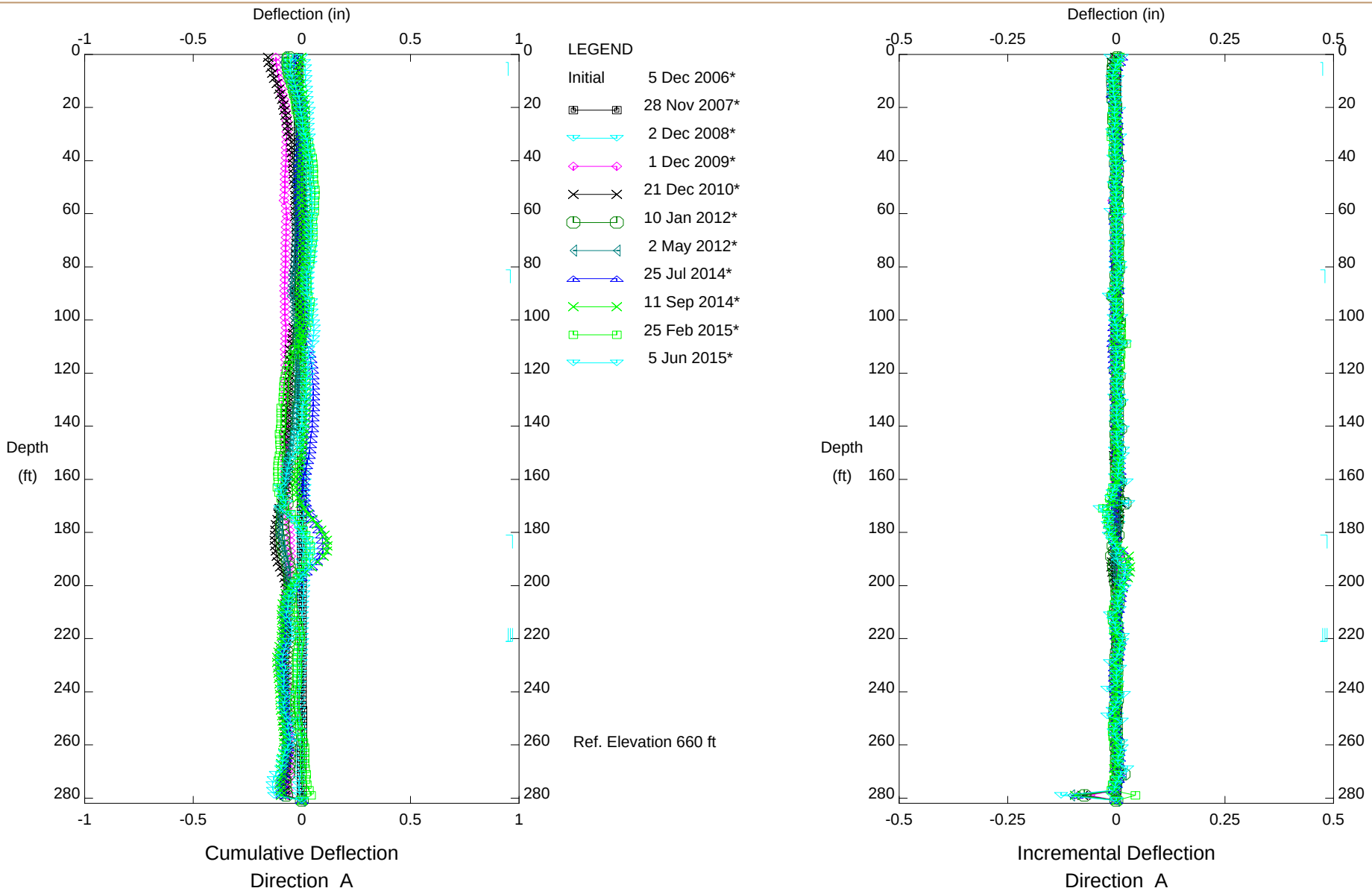
PLATE D-24c



BIG ROCK MESA, Inclinometer SP-20

WESTERN REGION

PLATE D-24d

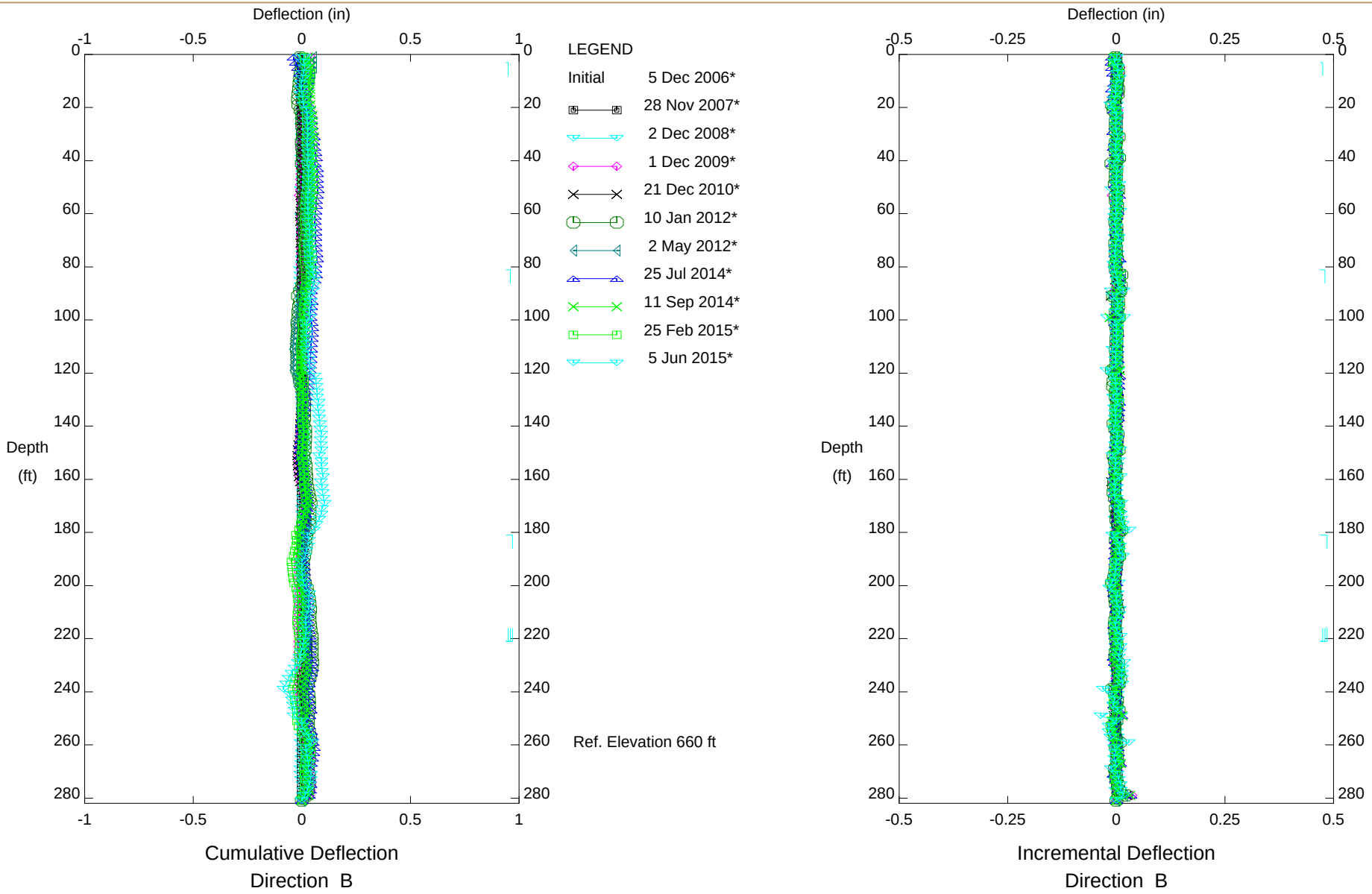


BIG ROCK MESA, Inclinometer SP-21

WESTERN REGION

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

PLATE D-25a

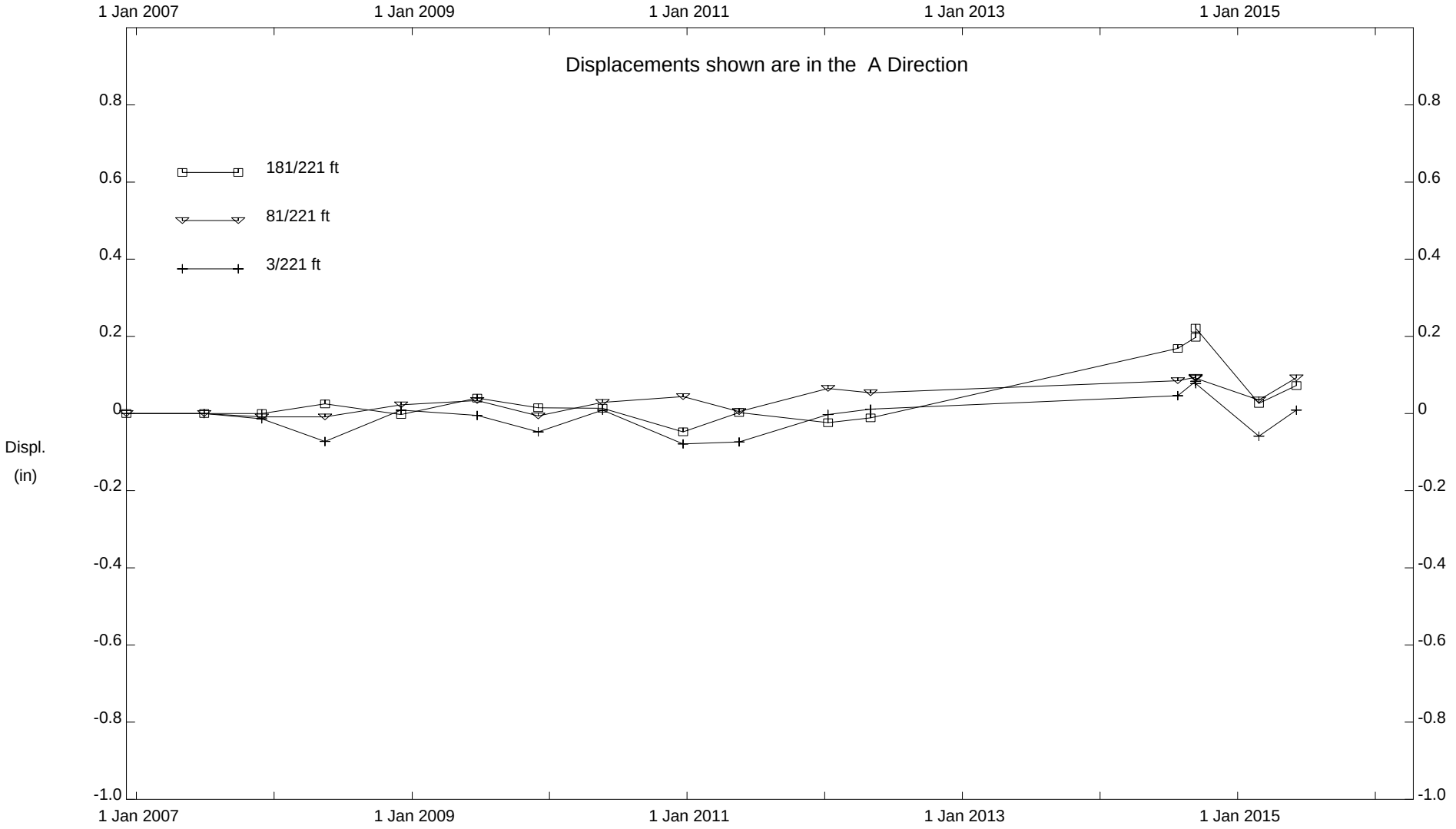


BIG ROCK MESA, Inclinometer SP-21

WESTERN REGION

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

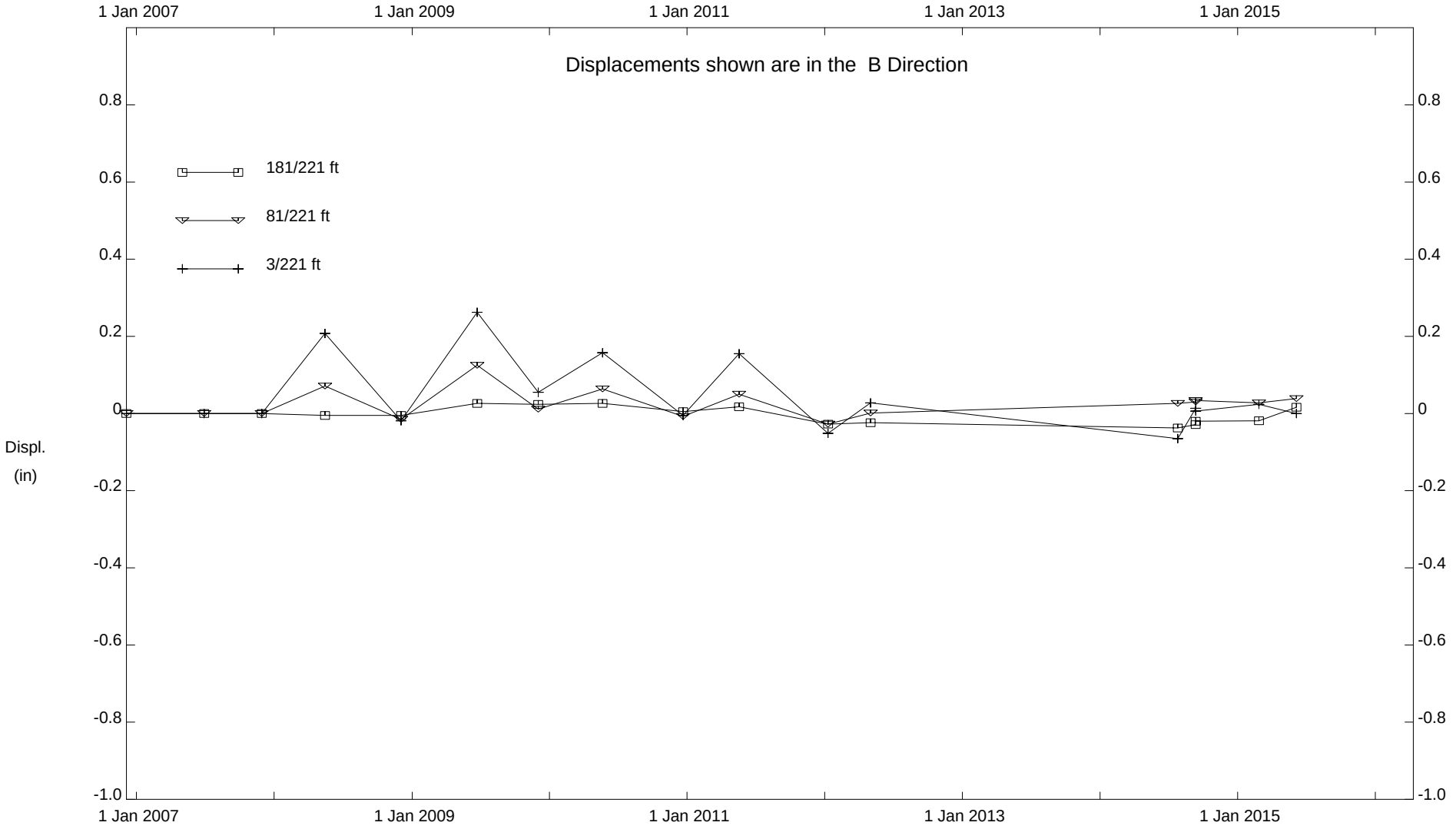
PLATE D-25b



BIG ROCK MESA, Inclinometer SP-21

WESTERN REGION

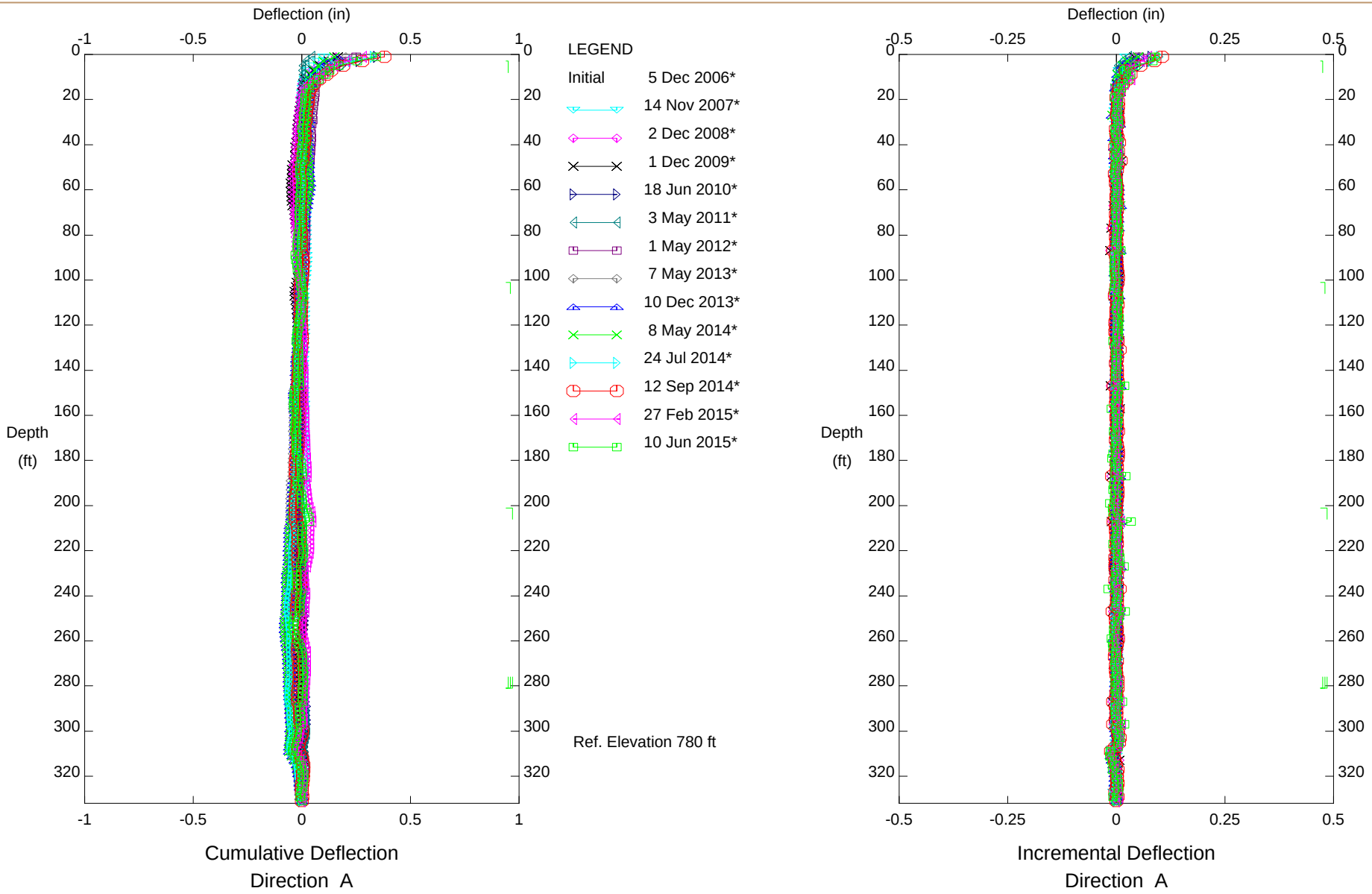
PLATE D-25c



BIG ROCK MESA, Inclinometer SP-21

WESTERN REGION

PLATE D-25d

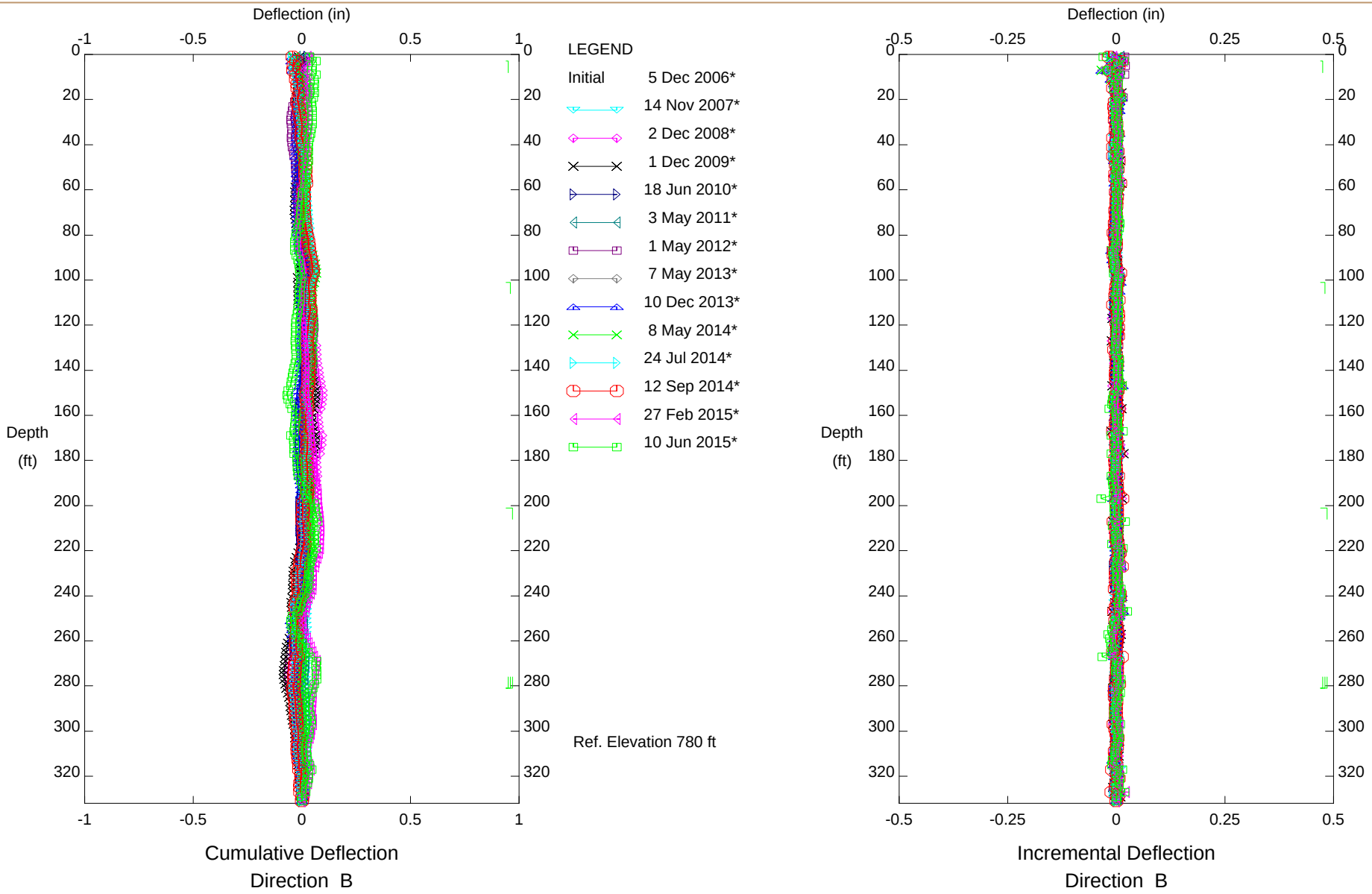


BIG ROCK MESA, Inclinometer SP-22

WESTERN REGION

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

PLATE D-26a

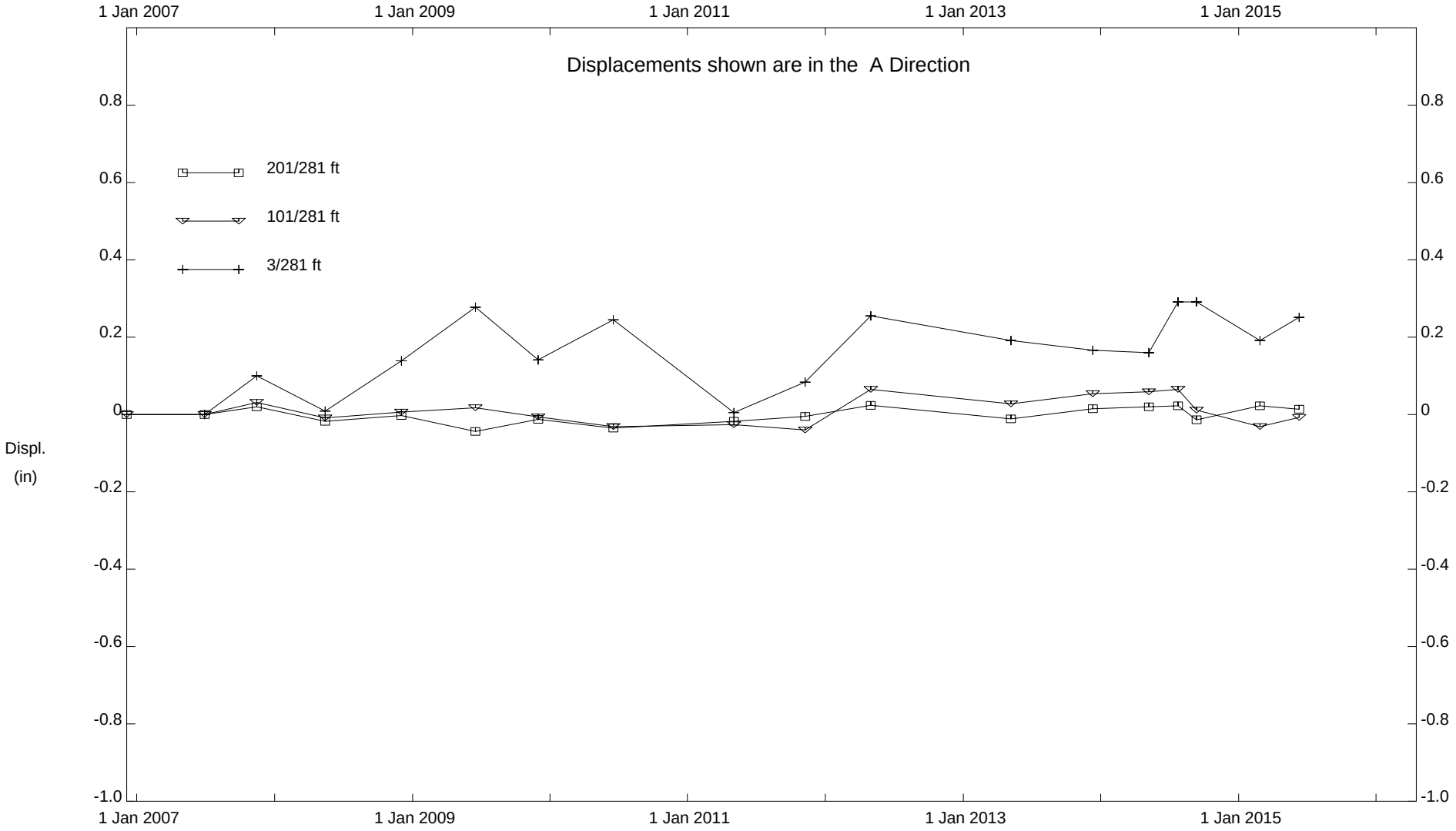


BIG ROCK MESA, Inclinometer SP-22

WESTERN REGION

PLATE D-26b

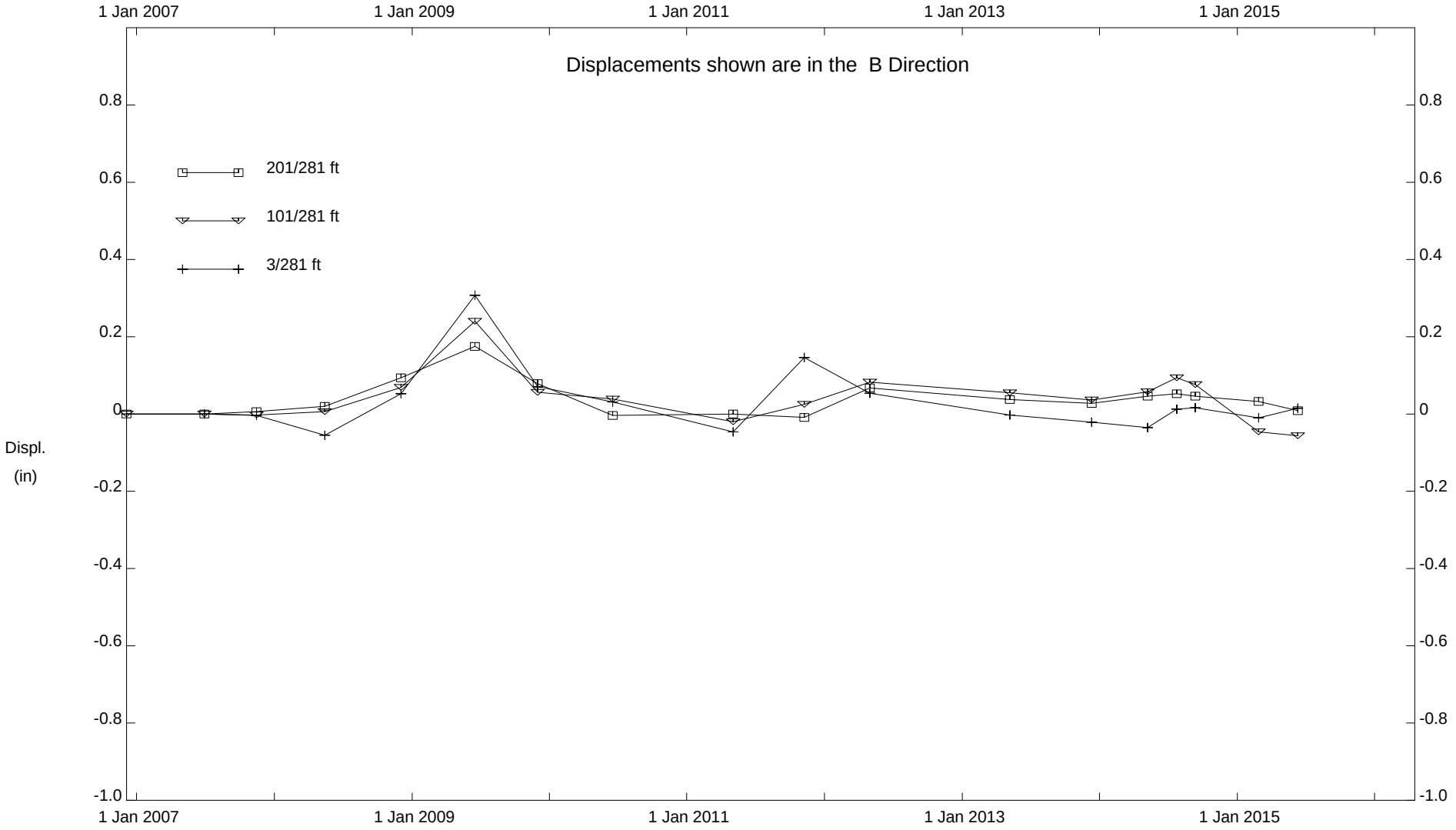
Sets marked * include zero shift and/or rotation corrections.



BIG ROCK MESA, Inclinometer SP-22

WESTERN REGION

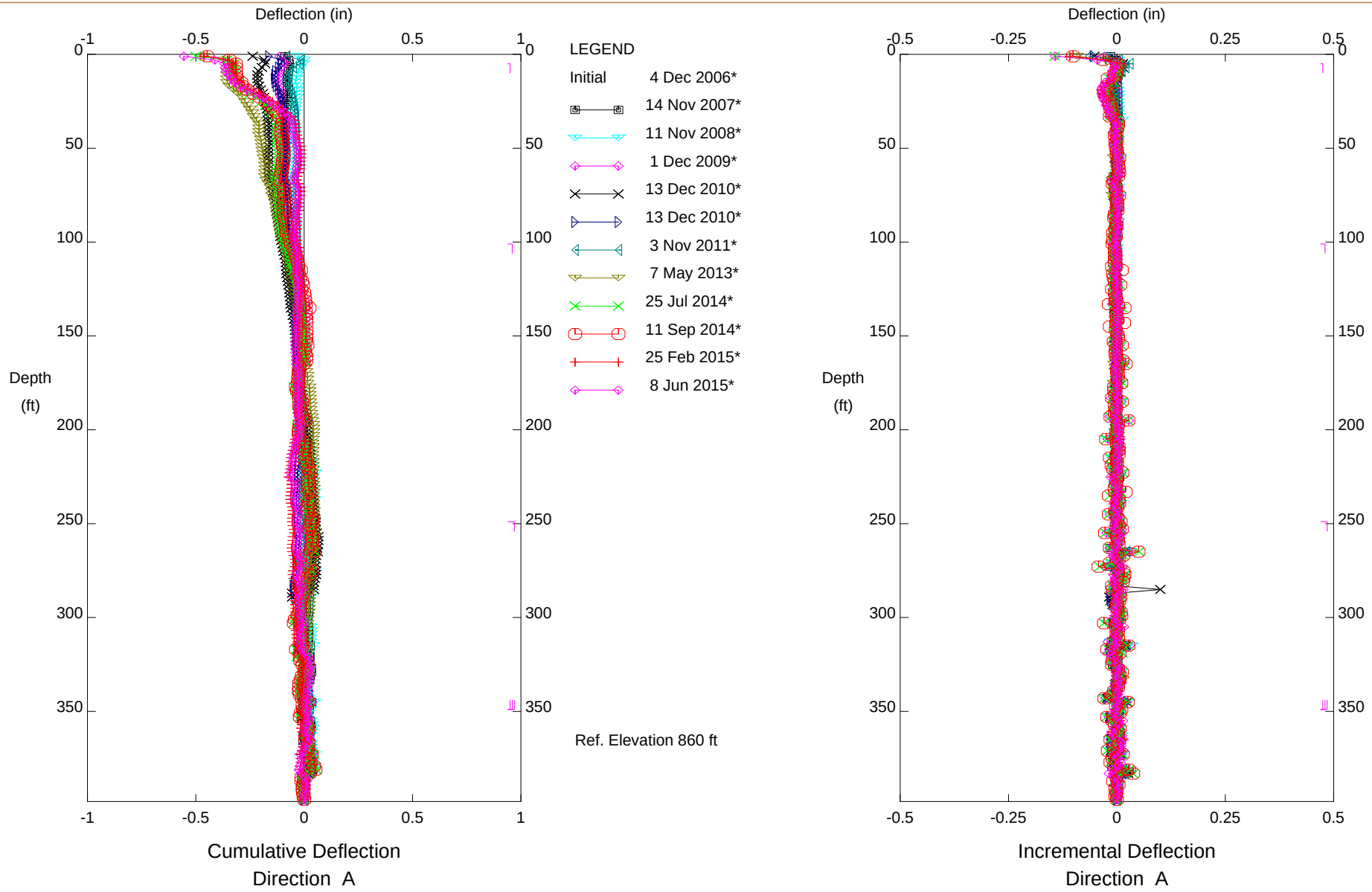
PLATE D-26c



BIG ROCK MESA, Inclinometer SP-22

WESTERN REGION

PLATE D-26d

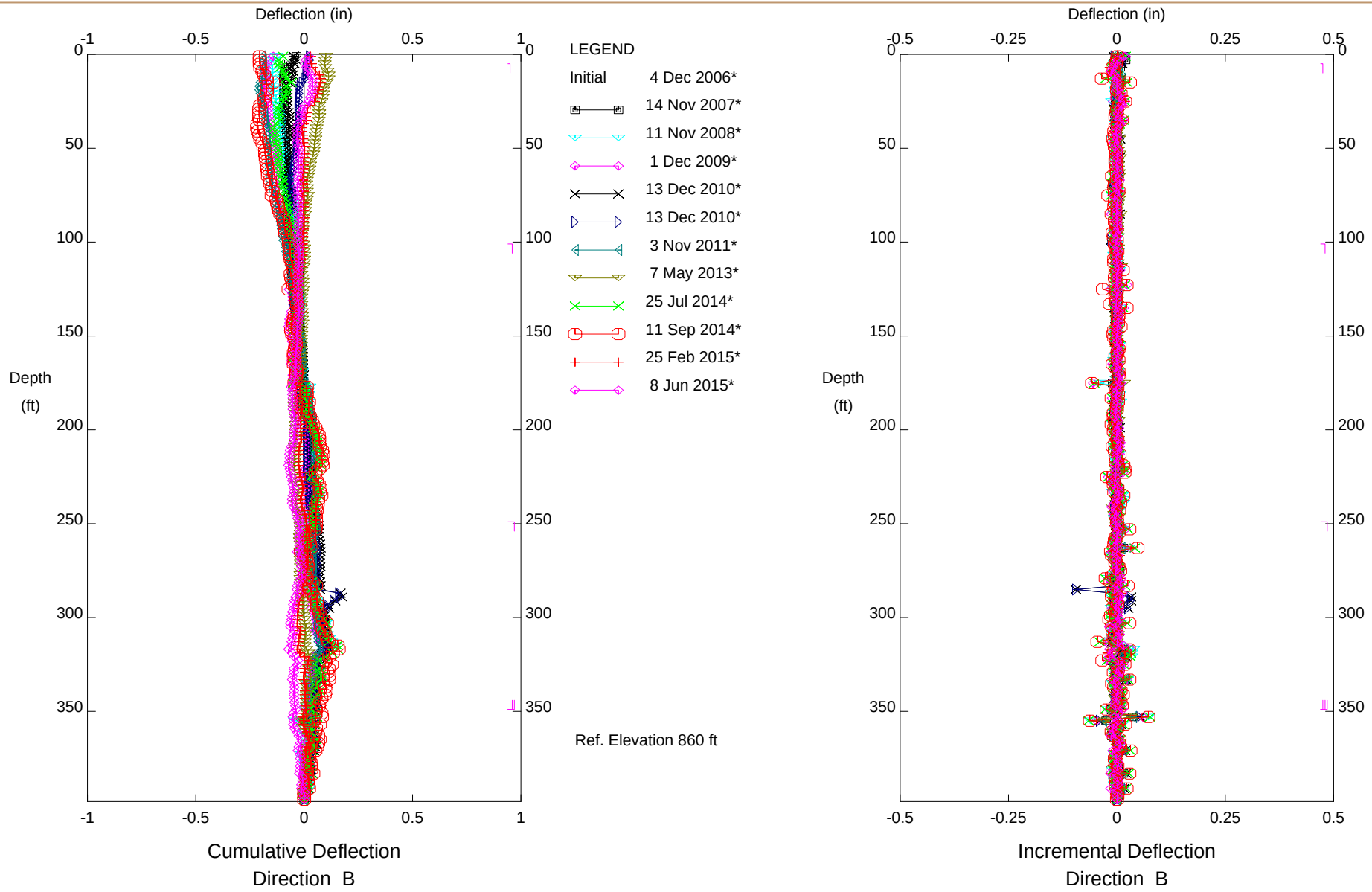


BIG ROCK MESA, Inclinometer SP-23

WESTERN REGION

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

PLATE D-27a

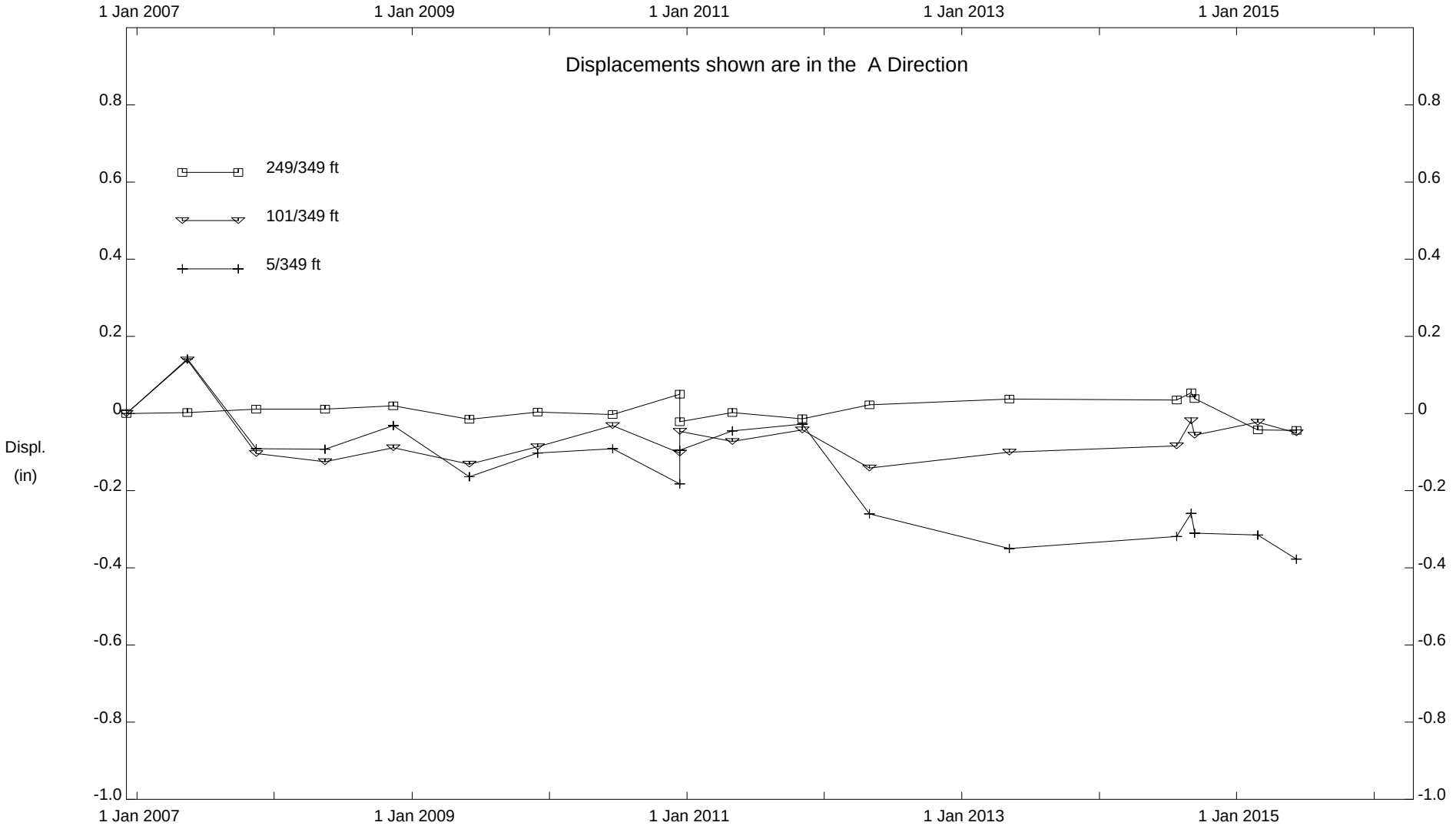


BIG ROCK MESA, Inclinometer SP-23

WESTERN REGION

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

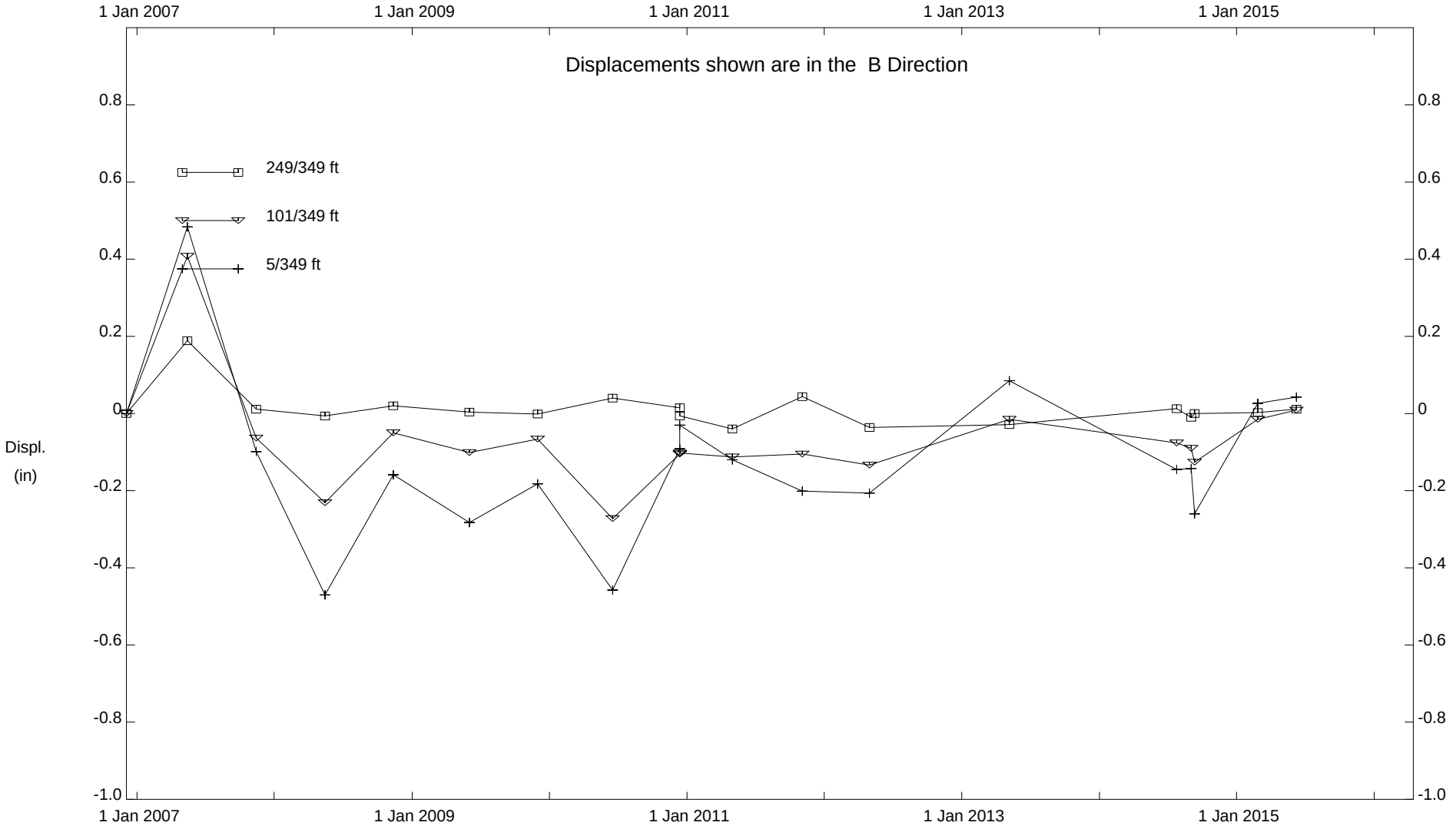
PLATE D-27b



BIG ROCK MESA, Inclinometer SP-23

WESTERN REGION

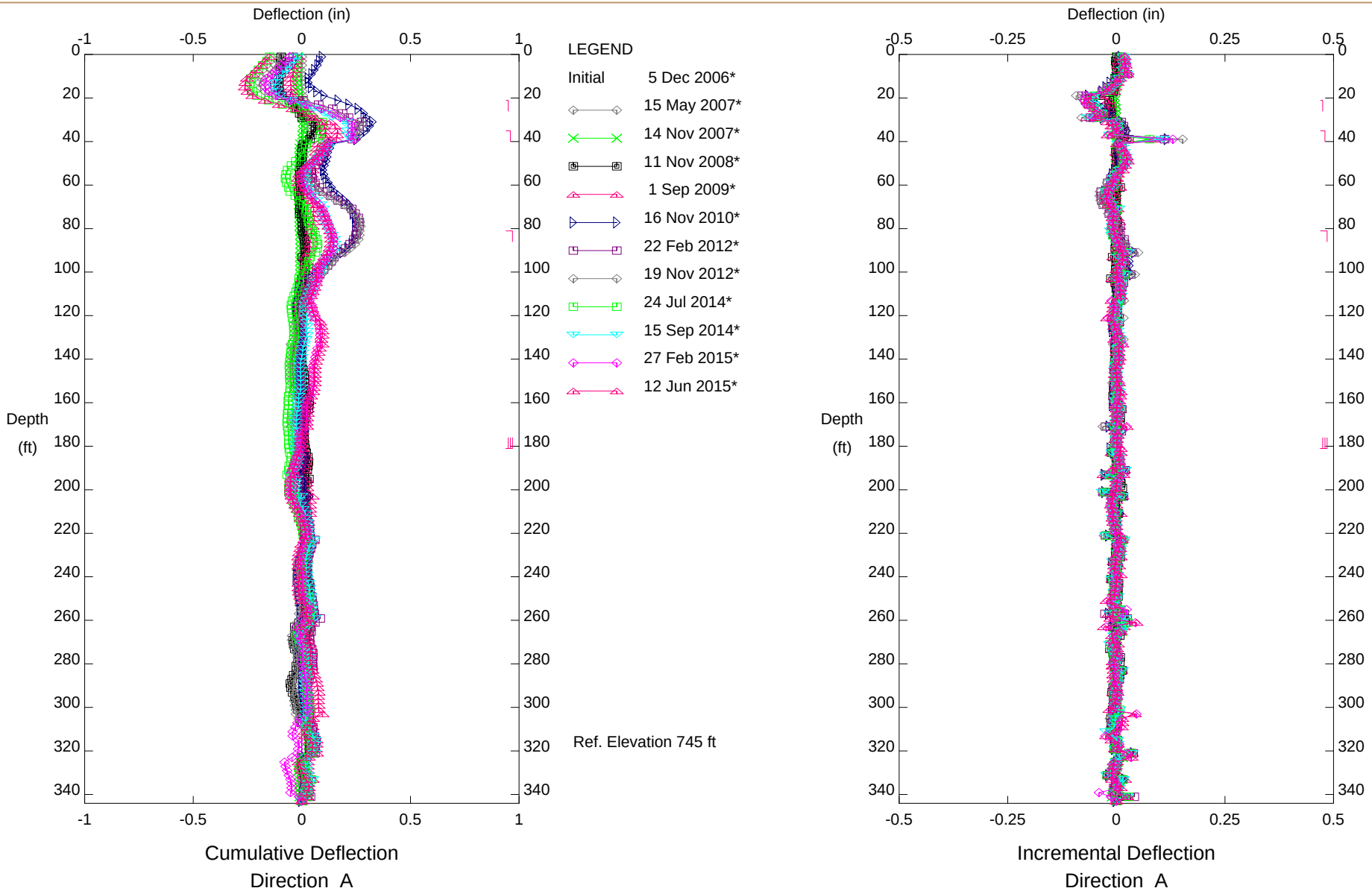
PLATE D-27c



BIG ROCK MESA, Inclinometer SP-23

WESTERN REGION

PLATE D-27d

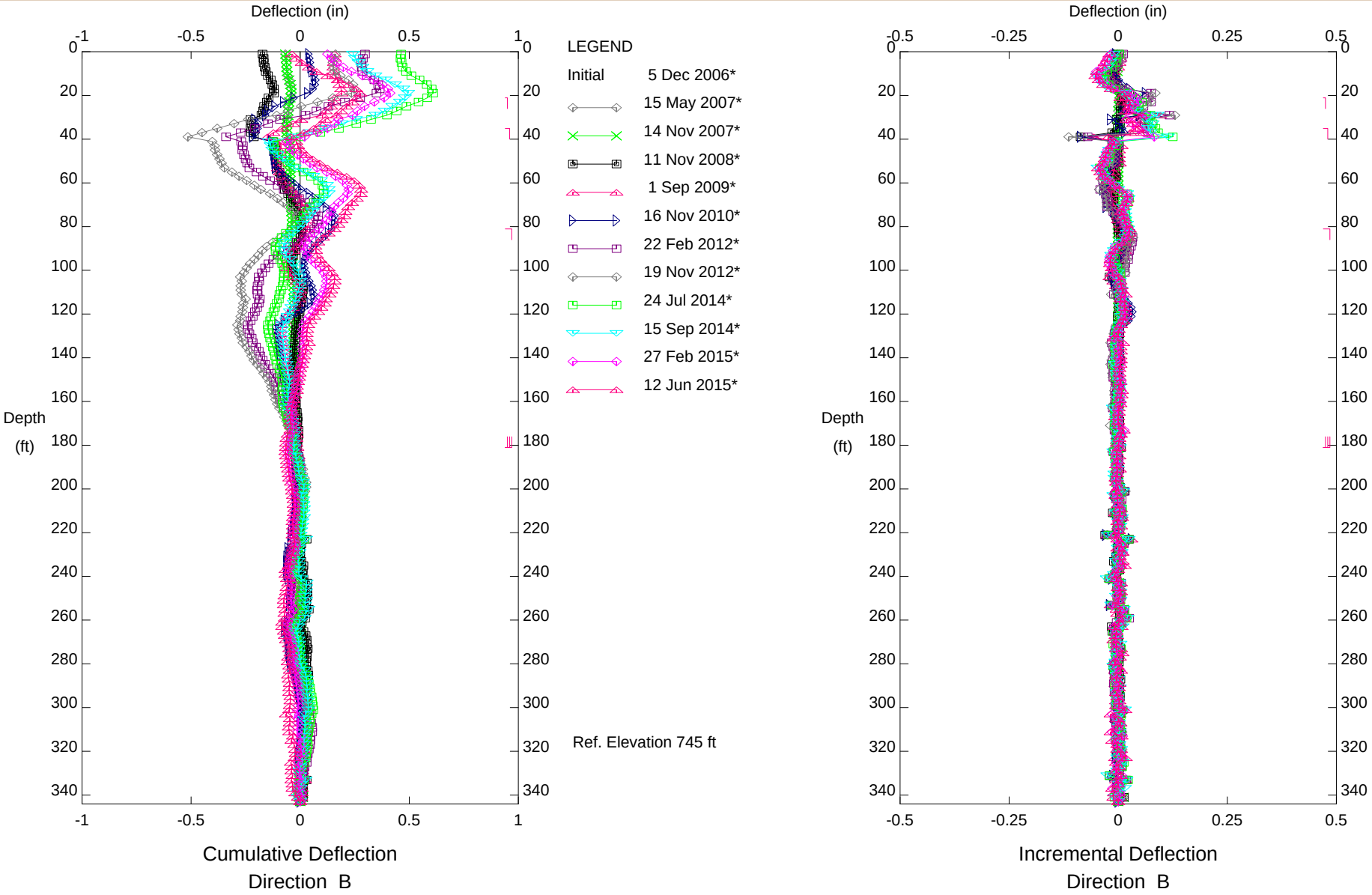


BIG ROCK MESA, Inclinometer SP-26

HEADSCARP REGION

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

PLATE D-28a

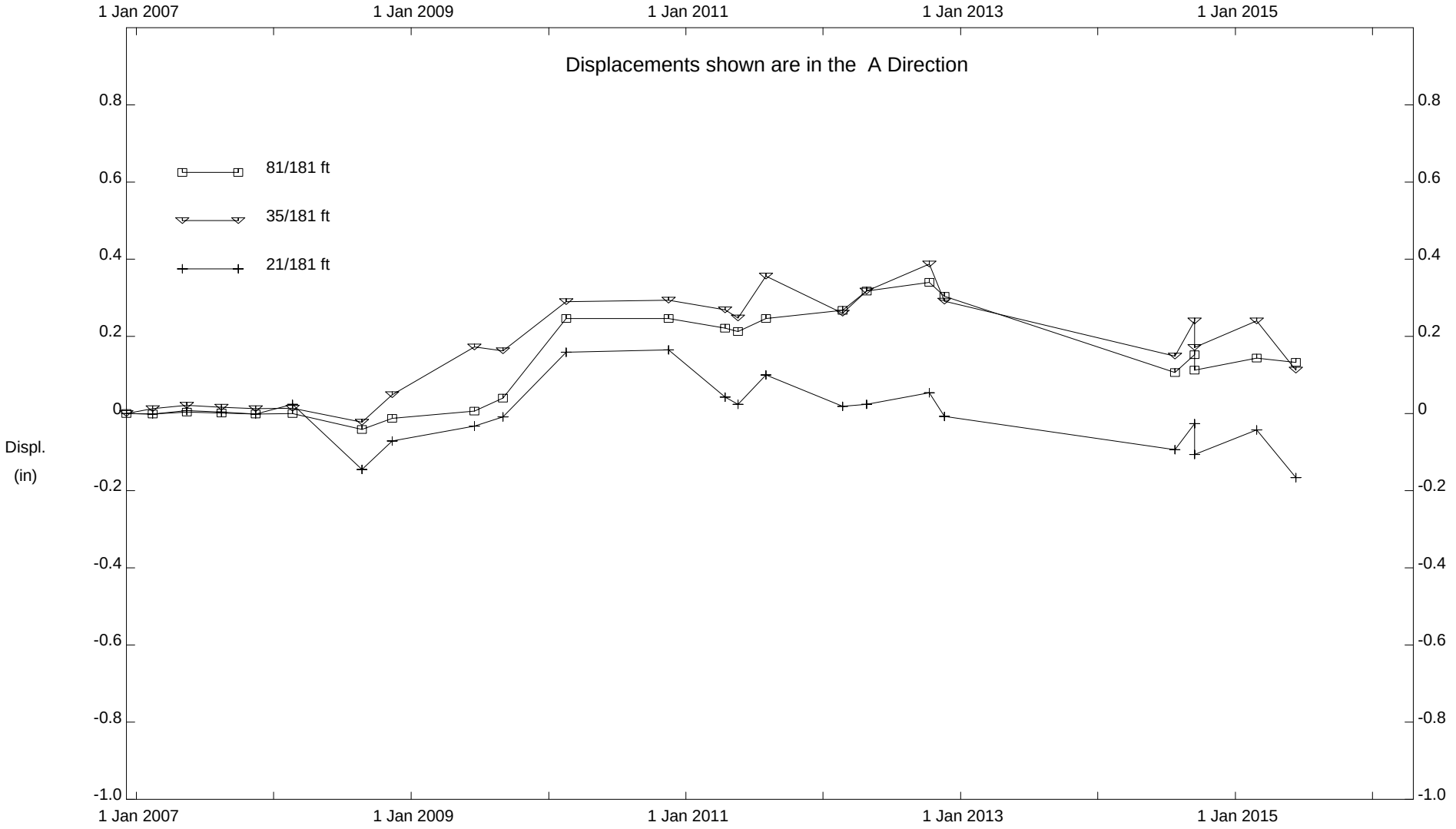


BIG ROCK MESA, Inclinometer SP-26

HEADSCARP REGION

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

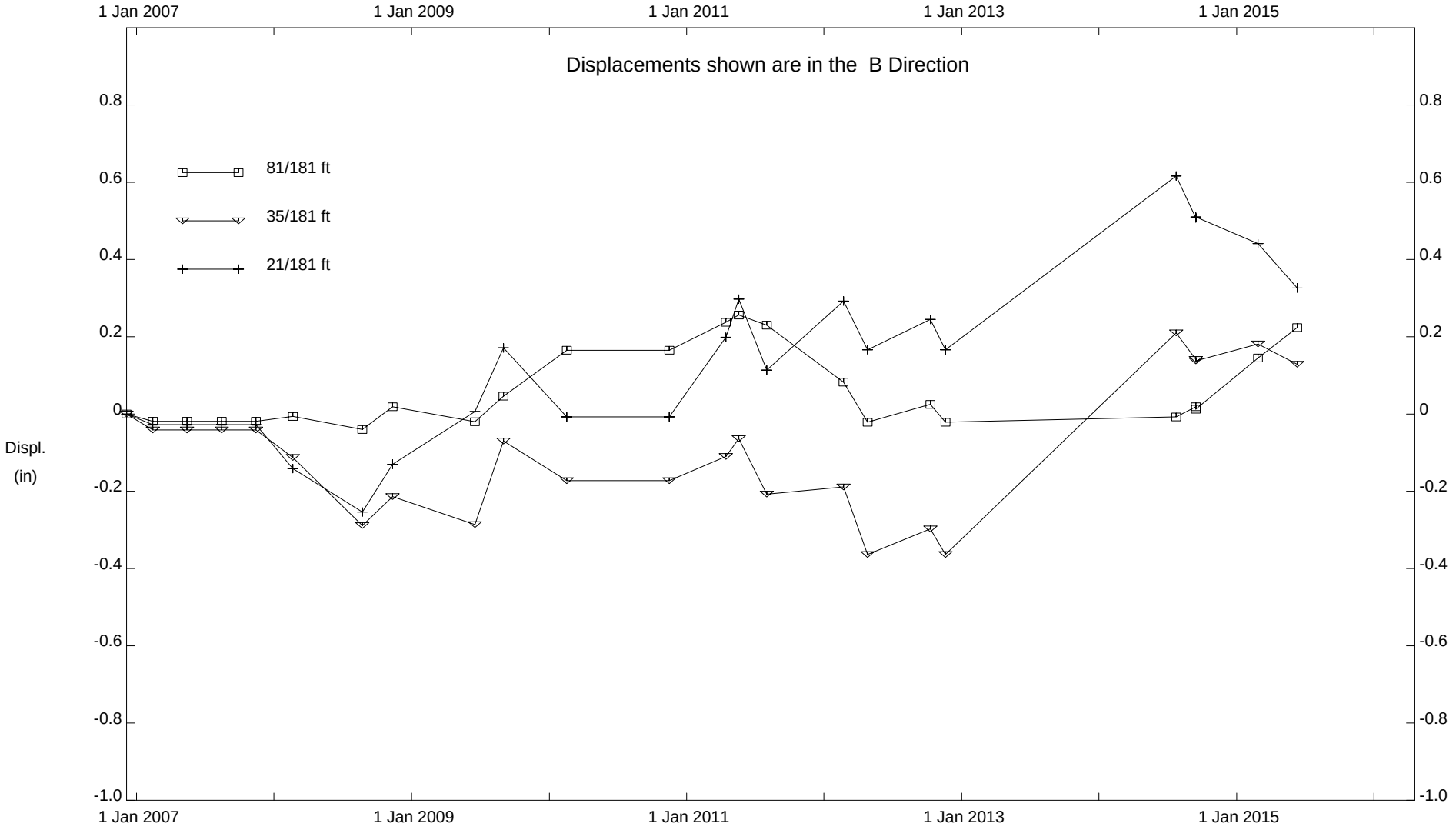
PLATE D-28b



BIG ROCK MESA, Inclinometer SP-26

HEADSCARP REGION

PLATE D-28c



BIG ROCK MESA, Inclinometer SP-26

HEADSCARP REGION

PLATE D-28d

APPENDIX E
WATER QUALITY TESTING

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)												
	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Sulfides	Phenols	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity *
Units:			*°F*	*mg/L*	*mg/L*	*mg/L*	*mL/L*	*mg/L*	*mg/L*	*mg/l*	*mg/L*	*NTU*	*% Survival*
Discharges to Port 1A													
8/18/2014	N/A	--	--	--	--	--	--	--	--	--	--	--	--
9/22/2014	N/A	--	--	--	--	--	--	--	--	--	--	--	--
Discharges to Port 1													
8/18/2014	BYA-6	6.9	73.2	ND	ND	ND	ND	ND	ND	ND	1.2	ND	--
9/22/2014	BYA-6	6.9	76.6	ND	ND	ND	BQL	ND	ND	BQL	ND	0.18	--
Discharges to Port 3													
8/18/2014	HD-30	7.3	71.8	ND	0.020	ND	ND	ND	ND	ND	1.1	0.12	--
8/18/2014	HD-43	7.3	80.2	ND	ND	ND	ND	ND	ND	ND	ND	0.19	
9/22/2014	HD-30	7.2	71.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
9/22/2014	HD-43	7.9	72.3	ND	ND	ND	ND	ND	ND	ND	ND	0.13	--
Discharges to Port 4													
8/27/2014	W-8	6.9	72.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
8/27/2014	BYA-7	7.0	75.9	ND	ND	ND	ND	ND	ND	ND	2.2	0.8	--
9/22/2014	W-8	6.9	71.8	ND	ND	ND	ND	ND	ND	ND	ND	0.12	--
9/22/2014	BYA-7	7.6	74.7	ND	ND	1.4	ND	ND	ND	ND	0.5	0.16	--
Discharges to Port 5													
8/27/2014	BYA-4	6.9	74.7	ND	0.015	ND	ND	ND	ND	ND	0.7	0.66	--
9/22/2014	BYA-4	7.0	71.2	ND	0.016	ND	ND	ND	ND	ND	0.5	ND	--
Discharges to Port 5A													
8/18/2014	N/A	--	--	--	--	--	--	--	--	--	--	--	--
9/22/2014	N/A	--	--	--	--	--	--	--	--	--	--	--	--
Discharges to Port 6													
8/18/2014	HD-12	7.3	72.3	2.6	ND	ND	ND	ND	ND	ND	1.5	ND	--
8/28/2014	HD-11	7.8	71.8	ND	0.039	ND	ND	ND	ND	ND	1.2	0.37	
9/23/2014	HD-12	7.3	72.0	1.5	ND	ND	ND	ND	ND	ND	ND	ND	--
9/23/2014	HD-11	7.4	73.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Discharges to Port 7													
8/18/2014	HD-7	7.3	75.6	ND	ND	ND	ND	ND	ND	ND	1.6	0.10	--
9/23/2014	HD-7	8.1	75.9	ND	0.016	ND	ND	ND	ND	ND	ND	0.16	--
Discharges to Port 9													
8/28/2014	HD-5	7.8	71.8	ND	ND	ND	ND	ND	ND	ND	1	0.24	--
9/23/2014	HD-5	8.1	71.6	ND	0.018	ND	ND	ND	ND	ND	ND	0.31	--
Effluent Limit (Daily Max.)		6.5-8.5	--	30	0.5	15	0.3	1	1	0.1	150	150	90
Effluent Limit (Monthly Avg.)		6.5-8.5	--	20	---	10	0.1	---	---	---	50	50	--

* Annual Acute Toxicity Samples collected January 21, 2014

SUMMARY OF WATER QUALITY MONITORING DATA
Third Quarter (July - September) 2014
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE E-1

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)												
	Well/Hydrauger Identification	pH	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Sulfides	Phenols	Residual Chlorine	Total Suspended Solids	Turbidity	Acute Toxicity *
Units:			*°F*	*mg/L*	*mg/L*	*mg/L*	*mL/L*	*mg/L*	*mg/L*	*mg/l*	*mg/L*	*NTU*	*% Survival*
Discharges to Port 1A													
10/30/2014	BYA-14	7.2	72.9	ND	NT	ND	ND	ND	ND	ND	ND	0.13	--
11/20/2014	BYA-14	7.1	71.4	ND	ND	ND	ND	ND	ND	ND	0.8	0.38	--
12/3/2014	BYA-14	7.3	70.2	ND	0.029	ND	ND	ND	ND	ND	0.7	0.18	--
Discharges to Port 3													
10/30/2014	W-2	6.8	70.3	ND	NT	ND	ND	ND	ND	ND	1.1	0.42	--
11/20/2014	W-2	6.8	70.0	ND	ND	ND	ND	ND	ND	ND	1.1	0.44	--
12/3/2014	W-2	6.8	69.6	1.7	ND	ND	ND	ND	ND	ND	1.2	0.21	--
10/30/2014	BYA-H10	7.1	72.0	ND	NT	ND	ND	ND	ND	ND	ND	0.10	--
11/20/2014	BYA-H10	6.9	73.5	ND	ND	ND	ND	ND	ND	ND	0.5	0.15	--
12/3/2014	BYA-H10	6.9	70.9	ND	ND	ND	ND	ND	ND	ND	0.54	0.14	--
10/30/2014	HD-4	6.8	72.0	ND	NT	ND	ND	ND	ND	ND	2	0.14	--
11/20/2014	HD-4	7.1	72.0	ND	ND	ND	ND	ND	ND	ND	ND	5.1	--
12/3/2014	HD-4	6.6	71.2	ND	ND	ND	ND	ND	ND	ND	ND	0.15	--
Discharges to Port 4													
10/30/2014	BYA-1	7.1	70.9	2.2	NT	ND	0.2	ND	14	ND	61	620	--
11/20/2014	BYA-1	NR	NR	ND	ND	ND	1	ND	ND	ND	78	190	--
12/3/2014	BYA-1	7.4	69.3	4.1	0.018	ND	1.5	ND	ND	ND	110.0	100	--
12/23/2014	BYA-1	NR	NR	NT	NT	NT	ND	NT	NT	NT	3.5	13	--
Discharges to Port 5													
10/30/2014	W-16	7.3	73.0	ND	NT	ND	ND	ND	ND	ND	1.1	0.19	--
11/20/2014	W-16	7.2	72.5	ND	0.021	ND	ND	ND	ND	ND	0.5	0.18	
12/3/2014	W-16	7.2	70.9	2.7	ND	ND	ND	ND	ND	ND	ND	0.2	
10/30/2014	BYA-11	7.0	71.1	ND	NT	ND	ND	ND	ND	ND	ND	0.14	
11/20/2014	BYA-11	7.3	70.5	ND	ND	ND	ND	ND	ND	ND	0.6	0.26	
12/3/2014	BYA-11	7.4	70.0	2.1	ND	ND	ND	ND	ND	ND	ND	0.27	
10/30/2014	HD-22	7.3	70.7	1.7	NT	ND	ND	ND	ND	ND	ND	4.6	
11/20/2014	HD-22	7.1	70.5	ND	ND	ND	ND	ND	ND	ND	1.9	0.16	
12/3/2014	HD-22	7.2	70.2	2.1	ND	ND	ND	ND	ND	ND	2.7	6.1	--
Discharges to Port 6													
10/30/2014	W-18	7.1	71.1	ND	NT	ND	ND	ND	ND	ND	2.7	1.2	--
11/20/2014	W-18	7.2	72.3	ND	0.017	ND	0.1	ND	ND	ND	14	5.6	
12/3/2014	W-18	7.3	70.9	2	0.018	ND	ND	ND	ND	ND	2	2.7	--
Discharges to Port 9													
10/30/2014	HD-23	7.2	71.1	ND	NT	ND	ND	ND	ND	ND	0.51	0.14	--
11/20/2014	HD-23	7.1	71.1	ND	ND	ND	ND	ND	ND	ND	0.7	0.24	
12/3/2014	HD-23	7.3	70.9	3.4	ND	ND	ND	ND	ND	ND	0.51	0.13	--
Effluent Limit (Daily Max.)		6.5-8.5	--	30	0.5	15	0.3	1	1	0.1	150	150	90
Effluent Limit (Monthly Avg.)		6.5-8.5	--	20	---	10	0.1	---	---	---	50	50	--

* Annual Acute Toxicity Samples collected January 21, 2014

SUMMARY OF WATER QUALITY MONITORING DATA
Fourth Quarter (October - December) 2014
Big Rock Mesa Landslide Assessment District
Malibu, California

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)												
	Sample Point	pH (Field Measured)	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Sulfides	Phenols	Residual Chlorine (Field Measured)	Total Suspended Solids	Turbidity	Acute Toxicity***
Units:			*°F*	*mg/L*	*mg/L*	*mg/L*	*mL/L*	*mg/L*	*mg/L*	*mg/l*	*mg/L*	*NTU*	*% Survival*
Discharges to M-001 (Outfall/Port #1a)													
3/16/2015	M-001	8.0	64.2	ND	ND	ND	ND	ND	ND	0.04	4.7	0.76	--
Discharges to M-002 (Outfall/Port #1)													
1/7/2015	HD-42	6.9	70.3	1.5	0.060 J,A	ND	ND	ND	ND	0.06	0.70	0.11	100**
2/10/2015	HD-42	7.0	70.0	ND	ND	ND	ND	ND	ND	0.02	ND	0.27	--
3/4/2015	HD-42	6.9	70.0	ND	ND	ND	ND	ND	ND	0.0	ND	0.11	--
3/16/2015	M-002	7.8	67.5	ND	ND	ND	ND	ND	ND	0.0	ND	0.17	--
Discharges to M-003 (Outfall/Port #2)													
3/16/2015	M-003	7.6	64.2	ND	ND	ND	ND	ND	ND	0.04	2.7	0.53	--
Discharges to M-004 (Outfall/Port #3)													
1/8/2015	W-1	6.9	70.2	ND	0.043 J	ND	ND	ND	ND	0.10	2.7	1.6	100**
2/10/2015	W-1	7.4 B	NR	ND	ND	ND	ND	ND	ND	0.02	1.1	1.0	--
3/4/2015	W-1	6.9	70.9	ND	ND	ND	ND	ND	ND	0.05	1.2	2.6	--
1/7/2015	HD-30	7.1	70.7	ND	0.033 J	ND	ND	ND	ND	0.04	ND	0.12	97.5**
2/10/2015	HD-30	7.3	70.7	ND	ND	ND	ND	ND	ND	0.0	ND	0.14	--
3/4/2015	HD-30	7.1	70.7	ND	ND	ND	ND	ND	ND	0.0	0.50	0.12	--
3/16/2015	M-004	7.8	72.0	9.8	3.2 A	ND	ND	ND	ND	0.05	5.3	2.1	--
3/25/2015	M-004	--	--	--	ND	--	--	--	--	--	--	--	--
4/1/2015	M-004	--	--	--	ND	--	--	--	--	--	--	--	--
4/8/2015	M-004	--	--	--	0.14	--	--	--	--	--	--	--	--
4/14/2015	M-004	--	--	--	0.019 J	--	--	--	--	--	--	--	--
Discharges to M-005 (Outfall/Port #)4													
1/8/2015	W-8	6.8	72.0	ND	0.050 J	ND	ND	ND	ND	0.0	ND	1.1	100**
2/10/2015	W-8	7.0	71.4	ND	0.030 J	ND	ND	ND	ND	0.12	ND	0.35	--
3/4/2015	W-8	6.8	71.6	ND	0.015 J	ND	ND	ND	0.1	0.0	ND	ND	--
1/7/2015	W-17	7.2	71.4	ND	0.053 J	ND	ND	ND	ND	0.0	ND	0.28	100**
2/10/2015	W-17	7.7 B	NR	ND	ND	ND	ND	ND	0.012 J	0.03	ND	0.24	--
3/4/2015	W-17	7.3	71.6	ND	ND	ND	ND	ND	0.013 J	0.03	ND	0.26	--
3/16/2015	M-005	7.8	71.8	7.4	3.1 A	2.0 J	ND	ND	ND	0.05	1.2	2.4	--
3/25/2015	M-005	--	--	--	0.015 J	--	--	--	--	--	--	--	--
4/1/2015	M-005	--	--	--	ND	--	--	--	--	--	--	--	--
4/8/2015	M-005	--	--	--	0.015 J	--	--	--	--	--	--	--	--
4/14/2015	M-005	--	--	--	2.9 A	--	--	--	--	--	--	--	--
Discharges to M-006 (Outfall/Port #5)													
1/7/2015	BYA-4	7.1	72.5	ND	0.020 J	ND	ND	ND	ND	0.0	2.0	3.9	100**
2/10/2015	BYA-4	7.5 B	71.1	ND	ND	ND	ND	ND	ND	0.10	1.4	1.1	--
3/4/2015	BYA-11	7.3	71.6	ND	ND	ND	ND	ND	ND	0.0	ND	0.13	--
1/7/2015	W-13	7.0	71.1	ND	0.020 J	ND	ND	ND	ND	0.02	ND	0.16	100**
2/10/2015	W-13	7.3	71.2	ND	ND	ND	ND	ND	ND	0.0	ND	0.11	--
3/4/2015	W-13	7.0	71.1	ND	ND	ND	ND	ND	ND	0.03	ND	0.12	--
3/16/2015	M-006	7.6	69.6	ND	0.034 J	ND	ND	ND	ND	0.05	4.8	0.69	--
Discharges to M-007 (Outfall/Port #5a)													
3/16/2015	M-007	7.8	69.6	1.7	0.041 J	ND	ND	ND	ND	0.04	1.1	0.37	--
Discharges to M-008 (Outfall/Port #6)													
1/8/2015	BYA-3	7.1	75.4	ND	0.060 J	ND	ND	ND	ND	0.22	0.92	0.41	100**
2/10/2015	BYA-3	7.4	73.8	ND	ND	ND	ND	ND	ND	0.03	0.50	0.23	--
3/4/2015	BYA-3	7.4	73.6	ND	ND	ND	ND	ND	ND	0.0	ND	0.22	--
1/7/2015	HD-12	7.2	72.0	1.5	0.060 J	ND	ND	ND	ND	0.04	2.1	0.10	100**
2/10/2015	HD-12	7.2	72.0	ND	ND	ND	ND	ND	ND	0.0	0.50	0.17	--
3/4/2015	HD-12	7.1	72.0	1.7	ND	ND	ND	ND	ND	0.0	0.50	0.10	--
3/16/2015	M-008	8.3	70.7	ND	0.034 J	ND	ND	ND	ND	0.04	0.80	0.50	--
Discharges to M-009 (Outfall/Port #7)													
3/16/2015	M-009	7.4	71.2	ND	0.036 J,A	ND	ND	ND	ND	0.01	1.8	0.36	--
Discharges to M-010 (Outfall/Port #9)													
1/7/2015	HD-6	7.3	71.1	ND	0.047 J	ND	ND	ND	ND	0.04	ND	0.15	100**
2/10/2015	HD-6	7.2	70.9	ND	ND	ND	ND	ND	ND	0.0	ND	0.12	--
3/4/2015	HD-6	7.2	70.7	ND	ND	ND	ND	ND	ND	0.0	ND	0.11	--
3/16/2015	M-010	7.9	69.8	ND	0.027 J	ND	ND	ND	ND	0.09	0.70	0.16	--
Effluent Limit (Daily Max.)			---	30	0.5	15	0.3	0.1	1	0.1	150	150	90
Effluent Limit (Monthly Avg.)			---	20	---	10	0.1	---	---	---	50	50	--

-- = Not tested for during monthly monitoring period.
--- = No established limit.
** = Acute Toxicity samples were collected on 1/21/15
ND = none detected above laboratory
0.12 = Exceedance of effluent limit.

NR = no reading taken
J = Laboratory estimated value, below PQL and above the MDL.
A = Laboratory PQLs were raised due to sample dilution caused by high analyte concentration or matrix interference.
B = Indicates laboratory measurement.

SUMMARY OF WATER QUALITY MONITORING DATA
First Quarter (January - March) 2015
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE E-3

Date Sampled	INORGANIC NON-METALS (Aqueous Matrix)																				
	Sample Point	pH (Field Measured)	Temperature	Biochemical Oxygen Demand	Surfactants (MBAS)	Oil & Grease	Settleable Solids	Sulfides	Phenols	Residual Chlorine (Field Measured)	Total Suspended Solids	Turbidity	TPH Diesel	TPH Motor Oil	Bis(2-Ethylhexyl) Phthalate	Zinc	Total Coliform	Fecal Coliform	Fecal/Total Coliform >0.1?	Enterococcus	Acute Toxicity***
Units:			°F	mg/L	mg/L	mg/L	mL/L	mg/L	mg/L	mg/L	mg/L	NTU	µg/L	µg/L	µg/L	µg/L	MPN/100ml	MPN/100ml		MPN/100ml	% Survival
Discharges to M-001 (Outfall/Port #1a)																					
4/1/2015	M-001	8.1	66.9	ND	ND	ND	ND	ND	ND	0.06	ND	0.11	--	--	--	--	--	--	--	--	--
5/13/2015	M-001	7.8	60.1	ND	0.022 J	ND	ND	ND	ND	0.03	ND	0.18	--	--	--	--	--	--	--	--	--
6/10/2015	M-001	8.3	65.8	ND	ND A	ND	ND	ND	ND	**0.3**	ND	0.29	ND	ND	ND	28 J	**>23**	12	--	11	--
Discharges to M-002 (Outfall/Port #1)																					
4/1/2015	M-002	7.9	67.6	ND	0.026 J	ND	ND	ND	ND	0.06	0.50	0.16	--	--	--	--	--	--	--	--	--
5/13/2015	M-002	7.4	63.7	ND	0.017 J	ND	ND	ND	ND	0.04	ND	0.11	--	--	--	--	--	--	--	--	--
6/10/2015	M-002	8.3	68.0	ND	ND	ND	ND	ND	ND	**0.2**	ND	0.18	ND	ND	ND	ND	**>23**	**>23**	--	16	--
Discharges to M-003 (Outfall/Port #2)																					
4/1/2015	M-003	8.1	68.2	ND	ND	ND	ND	ND	0.01 J	0.04	ND	0.26	--	--	--	--	--	--	--	--	--
5/13/2015	M-003	7.3	67.5	ND	0.039 J	ND	ND	ND	ND	0.00	ND	0.23	--	--	--	--	--	--	--	--	--
6/10/2015	M-003	7.2	68.0	ND	ND	ND	ND	ND	ND	0.0	ND	0.18	ND	ND	ND	3.8 J	<1.1	<1.1	--	<1	--
Discharges to M-004 (Outfall/Port #3)																					
4/1/2015	M-004	7.9	70.0	ND	ND	ND	ND	ND	ND	0.05	ND	0.24	--	--	--	--	--	--	--	--	--
5/13/2015	M-004	7.6	66.4	ND	38	ND	ND	ND	ND	0.03	ND	0.24	--	--	--	--	--	--	--	--	--
6/10/2015	M-004	7.7	68.2	ND	ND	ND	ND	ND	ND	0.0	ND	0.16	ND	ND	ND	2.5 J	**>23**	**>23**	--	**921**	--
Discharges to M-005 (Outfall/Port #4)																					
4/1/2015	M-005	7.9	69.8	ND	ND	2.9 J	ND	ND	ND	0.04	4.9	0.34	--	--	--	--	--	--	--	--	--
5/13/2015	M-005	10.0	67.1	14	**1.8** A	2.2 J	ND	ND	ND	0.00	4.7	5.4	--	--	--	--	--	--	--	--	--
6/10/2015	M-005	8.3	68.0	10	**1.9** A	ND	**4.9**	ND	ND	0.0	6.4	4.9	**300** C	**530** D	ND	22 J	**>23**	**>23**	--	**210**	--
Discharges to M-006 (Outfall/Port #5)																					
4/1/2015	M-006	7.9	69.3	ND	ND A	ND	ND	ND	ND	0.04	ND	0.34	--	--	--	--	--	--	--	--	--
5/13/2015	M-006	8.7	68.5	ND	0.056 J,A	ND	ND	ND	ND	0.04	ND	0.28	--	--	--	--	--	--	--	--	--
6/10/2015	M-006	8.2	69.3	ND	ND	ND	ND	ND	ND	0.0	0.74	0.23	ND	ND	ND	ND	**>23**	23	--	66	--
Discharges to M-007 (Outfall/Port #5a)																					
4/1/2015	M-007	NR	66.7	ND	ND	ND	ND	ND	ND	0.03	ND	0.53	--	--	--	--	--	--	--	--	--
5/13/2015	M-007	8.2	67.3	1.8	0.085 J	ND	ND	ND	ND	0.06	0.90	0.49	--	--	--	--	--	--	--	--	--
6/10/2015	M-007	8.2	67.8	ND	ND	ND	ND	ND	ND	0.0	ND	0.26	ND	ND	ND	1.3 J	**>23**	23	--	**866**	--
Discharges to M-008 (Outfall/Port #5)																					
4/1/2015	M-008	8.3	66.7	ND	ND	ND	ND	ND	ND	0.06	0.50	0.32	--	--	--	--	--	--	--	--	--
5/13/2015	M-008	9.0	66.2	ND	0.074 J	ND	ND	ND	ND	0.00	ND	0.13	--	--	--	--	--	--	--	--	--
6/10/2015	M-008	8.4	68.2	ND	ND	ND	ND	ND	ND	0.0	ND	0.18	ND	ND	ND	30 J	**>23**	23	--	**517**	--
6/10/2015	Duplicate	8.4	68.2	1.8	0.017 J	ND	ND	ND	ND	0.0	0.50	0.45	ND	ND	ND	**110**	**>23**	23	--	**>2420**	--
Discharges to M-009 (Outfall/Port #5)																					
4/1/2015	M-009	7.9	74.3	ND	ND	ND	ND	ND	ND	0.07	ND	0.13	--	--	--	--	--	--	--	--	--
5/13/2015	M-009	8.2	71.8	ND	0.022 J	ND	ND	ND	ND	0.06	ND	ND	--	--	--	--	--	--	--	--	--
6/10/2015	M-009	7.9	70.9	ND	ND	ND	ND	ND	ND	**0.2**	ND	0.11	ND	ND	ND	ND	<1.1	<1.1	--	<1	--
Discharges to M-010 (Outfall/Port #9)																					
4/1/2015	M-010	8.1	69.8	ND	ND	ND	ND	ND	ND	0.07	0.50	0.18	--	--	--	--	--	--	--	--	--
5/13/2015	M-010	8.3	67.8	ND	ND	ND	ND	ND	ND	0.06	0.50	0.11	--	--	--	--	--	--	--	--	--
6/10/2015	M-010	7.9	67.6	ND	0.065 J	ND	ND	ND	ND	**0.2**	2.60	0.77	48 C,J	ND	ND	15 J	**>23**	23	--	**866**	--
Effluent Limit (Daily Max.)			---	30	0.5	15	0.3	1.0	1.0	0.1	75	150	100	100	11	95	10000	400		104	90
Effluent Limit (Daily Max. if Fecal/Total Coliform > 0.1))																				1000	
Effluent Limit (Monthly Avg.)			---	20	---	10	0.1	---	---	---	50	50	---	---	5.9	47	1000	200		35	--

-- = Not tested for during monthly monitoring period.
--- = No established limit.
** = Acute Toxicity samples were collected on 1/21/15
ND = none detected above laboratory
NR = No reading taken
J = Laboratory estimated value, below PQL and above the MDL.
A = Laboratory PQLs were raised due to sample dilution caused by high analyte concentration or matrix interference.
B = Indicates laboratory measurement.
C = Chromatogram not typical of diesel
D = Chromatogram not typical of motor oil
0.12 = Exceedance of effluent limit.

SUMMARY OF WATER QUALITY MONITORING DATA
Second Quarter (April- June) 2015
Big Rock Mesa Landslide Assessment District
Malibu, California

PLATE E-4

APPENDIX E-1
WATER QUALITY LABORATORY DATA
THIRD QUARTER (JULY-SEPTEMBER) 2014

Date of Report: 08/29/2014

Tim Nicely

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1419034
Invoice ID:	B182030

Enclosed are the results of analyses for samples received by the laboratory on 8/18/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 7

Sample Results

1419034-01 - BYA-6

EPA Method 1664 8
Water Analysis (General Chemistry) 9

1419034-02 - HD-43

EPA Method 1664 10
Water Analysis (General Chemistry) 11

1419034-03 - HD-30

EPA Method 1664 12
Water Analysis (General Chemistry) 13

1419034-04 - HD-12

EPA Method 1664 14
Water Analysis (General Chemistry) 15

1419034-05 - HD-7

EPA Method 1664 16
Water Analysis (General Chemistry) 17

Quality Control Reports

EPA Method 1664

Method Blank Analysis 18
Laboratory Control Sample 19
Precision and Accuracy 20

Water Analysis (General Chemistry)

Method Blank Analysis 21
Laboratory Control Sample 22
Precision and Accuracy 23

Notes

Notes and Definitions 24

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

14-19034

TEMP: _____

* Required Fields

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #
Fugro Consultants	Tim Nicely	805-289-3836	805-650-7010

E-mail: tnicely@fugro.com

Address * 4820 McGrath Street, Suite 100 City * Ventura State * CA Zip * 93003

Project Information: Malibu-NPDES PO # BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: TODD CURTIS

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☒ System No. *

Matrix Types: RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	Residual Chlorine(SM4500-CL F)	Turbidity (EPA 180.1)
1		08/18		BYA-4 NO SAMPLE		T= pH=									
2		08/18		W-8 NO SAMPLE		T= pH=									
3		08/18		BYA-9 NO SAMPLE		T= pH=									
4		08/18		BYA-7 NO SAMPLE		T= pH=									
6	5	08/18	1245	BYA-6	RGW	T=22.8 pH=7.28	X	X	X	X	X	X	X	X	X
05	5	08/18	1355	HD-43	RGW	T=26.8 pH=7.25	X	X	X	X	X	X	X	X	X
7	5	08/18	1400	HD-30	RGW	T=22.1 pH=7.29	X	X	X	X	X	X	X	X	X
8		08/18		HD-15 NO SAMPLE		T= pH=									
9	5	08/18	1545	HD-12	RGW	T=22.4 pH=7.27	X	X	X	X	X	X	X	X	X
10	5	08/18	1500	HD-7	RGW	T=24.2 pH=7.28	X	X	X	X	X	X	X	X	X

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
TODD CURTIS	FUGRO CONSULTANTS	8/18	5:20		BC
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
		8/18	5:20		BC 8/18/18 19:35
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	
		8/18	1935		

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1419034 Page 2 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 3

Submission #: 1419034

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 207 Date/Time 8.18.14 1935

Temperature: (A) 0.4 °C / (C) 0.6 °C Analyst Init

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	AB	AB								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	C	C								
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	D	D								
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	D	D								
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1	C	C								
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

START HOLDING TIME: pH ☐ NO_3 ☐ HCl ☐ Cl_2 ☐ DO ☐ EOD ☐ MBAS ☐ COD ☐ SS ☐

CHK BY

DISTRIBUTION: WHITE - CLIENT COPY; SUB-OUT

Comments:
Sample Numbering Completed By: Date/Time: 8.18.14 1946 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1419034 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 2 Of 3

Submission #: 14-19034

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: _____ Thermometer ID: 207 Date/Time 8-18-14 1935

Temperature: (A) 0.9 °C / (C) 1.1 °C Analyst Init M

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL			A3		A3					
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE			C		C					
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS			D		D					
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1			E		E					
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: M Date/Time 8-18-14 1950 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1419034 Page 4 of 4

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 17 06/05/14 Page 3 Of 3

Submission #: 14-19034

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: Amber Thermometer ID: 207 Date/Time 8-18-14 1935

Temperature: (A) 1.1 °C / (C) 1.0 °C Analyst Init M

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL				AB						
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE				C						
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS				D						
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1				E						
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: M Date/Time: 8/18/14 1935 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419034-01	**COC Number:**	---	**Receive Date:**	08/18/2014 19:35
	Project Number:	---	**Sampling Date:**	08/18/2014 12:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-6	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Groundwater
1419034-02	**COC Number:**	---	**Receive Date:**	08/18/2014 19:35
	Project Number:	---	**Sampling Date:**	08/18/2014 13:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-43	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Groundwater
1419034-03	**COC Number:**	---	**Receive Date:**	08/18/2014 19:35
	Project Number:	---	**Sampling Date:**	08/18/2014 14:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-30	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Groundwater
1419034-04	**COC Number:**	---	**Receive Date:**	08/18/2014 19:35
	Project Number:	---	**Sampling Date:**	08/18/2014 15:14
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-12	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Groundwater
1419034-05	**COC Number:**	---	**Receive Date:**	08/18/2014 19:35
	Project Number:	---	**Sampling Date:**	08/18/2014 15:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-7	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1419034-01 | **Client Sample Name:** BYA-6, 8/18/2014 12:45:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	08/22/14	08/22/14 14:00	JAK	MAN-SV	1	BXH2835

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1419034-01 | **Client Sample Name:** BYA-6, 8/18/2014 12:45:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.2**	**mg/L**	**1.2**	**1.2**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	ND	NT Units	0.10	0.10	EPA-180.1			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	08/22/14	08/22/14 16:25	VV1	MANUAL	2.500	BXH2397
2	EPA-160.5	08/19/14	08/19/14 07:20	HPR	MANUAL	1	BXH2105
3	EPA-180.1	08/19/14	08/19/14 07:41	RML	MANUAL	1	BXH1821
4	EPA-425.1	08/19/14	08/19/14 12:00	JMN	MANUAL	1	BXH1696
5	SM-4500-CLF	08/18/14	08/18/14 22:00	MSA	MANUAL	1	BXH2927
6	EPA-420.4	08/20/14	08/21/14 08:05	TDC	KONE-1	1	BXH1881
7	SM-4500SD	08/20/14	08/20/14 09:30	DIW	SPEC05	1	BXH1846
8	SM17-5210B	08/19/14	08/19/14 08:00	HPR	YSI-57	1.525	BXH2297

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1419034-02 | **Client Sample Name:** HD-43, 8/18/2014 1:35:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	08/22/14	08/22/14 14:00	JAK	MAN-SV	1	BXH2835

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1419034-02 | **Client Sample Name:** HD-43, 8/18/2014 1:35:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.61	0.61	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.19**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	08/22/14	08/22/14 16:25	VV1	MANUAL	1.220	BXH2397
2	EPA-160.5	08/19/14	08/19/14 07:20	HPR	MANUAL	1	BXH2105
3	EPA-180.1	08/19/14	08/19/14 07:41	RML	MANUAL	1	BXH1821
4	EPA-425.1	08/19/14	08/19/14 12:00	JMN	MANUAL	1	BXH1696
5	SM-4500-CLF	08/18/14	08/18/14 22:00	MSA	MANUAL	1	BXH2927
6	EPA-420.4	08/20/14	08/21/14 08:05	TDC	KONE-1	1	BXH1881
7	SM-4500SD	08/20/14	08/20/14 09:30	DIW	SPEC05	1	BXH1846
8	SM17-5210B	08/19/14	08/19/14 08:00	HPR	YSI-57	1.525	BXH2297

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1419034-03 | **Client Sample Name:** HD-30, 8/18/2014 2:00:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	08/22/14	08/22/14 14:00	JAK	MAN-SV	1	BXH2835

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1419034-03 | **Client Sample Name:** HD-30, 8/18/2014 2:00:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.1**	**mg/L**	**1.1**	**1.1**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.12**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.020**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	08/22/14	08/22/14 16:25	VV1	MANUAL	2.105	BXH2397
2	EPA-160.5	08/19/14	08/19/14 07:20	HPR	MANUAL	1	BXH2105
3	EPA-180.1	08/19/14	08/19/14 07:41	RML	MANUAL	1	BXH1821
4	EPA-425.1	08/19/14	08/19/14 12:00	JMN	MANUAL	1	BXH1696
5	SM-4500-CLF	08/18/14	08/18/14 22:00	MSA	MANUAL	1	BXH2927
6	EPA-420.4	08/20/14	08/21/14 08:05	TDC	KONE-1	1	BXH1881
7	SM-4500SD	08/20/14	08/20/14 09:30	DIW	SPEC05	1	BXH1846
8	SM17-5210B	08/19/14	08/19/14 08:00	HPR	YSI-57	1.525	BXH2297

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1419034-04 | **Client Sample Name:** HD-12, 8/18/2014 3:14:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	08/22/14	08/22/14 14:00	JAK	MAN-SV	1	BXH2835

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1419034-04 | **Client Sample Name:** HD-12, 8/18/2014 3:14:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.5**	**mg/L**	**1.0**	**1.0**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	ND	NT Units	0.10	0.10	EPA-180.1			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	**2.6**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	08/22/14	08/22/14 16:25	VV1	MANUAL	2.083	BXH2397
2	EPA-160.5	08/19/14	08/19/14 07:20	HPR	MANUAL	1	BXH2105
3	EPA-180.1	08/19/14	08/19/14 07:41	RML	MANUAL	1	BXH1821
4	EPA-425.1	08/19/14	08/19/14 12:00	JMN	MANUAL	1	BXH1696
5	SM-4500-CLF	08/18/14	08/18/14 22:00	MSA	MANUAL	1	BXH2927
6	EPA-420.4	08/20/14	08/21/14 07:48	TDC	KONE-1	1	BXH1881
7	SM-4500SD	08/20/14	08/20/14 09:30	DIW	SPEC05	1	BXH1846
8	SM17-5210B	08/19/14	08/19/14 08:00	HPR	YSI-57	1.525	BXH2297

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1419034-05 | **Client Sample Name:** HD-7, 8/18/2014 3:00:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	08/22/14	08/22/14 14:00	JAK	MAN-SV	1	BXH2835

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1419034-05 | **Client Sample Name:** HD-7, 8/18/2014 3:00:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.6**	**mg/L**	**1.0**	**1.0**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.10**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	08/22/14	08/22/14 16:25	VV1	MANUAL	2.062	BXH2397
2	EPA-160.5	08/19/14	08/19/14 07:20	HPR	MANUAL	1	BXH2105
3	EPA-180.1	08/19/14	08/19/14 07:41	RML	MANUAL	1	BXH1821
4	EPA-425.1	08/19/14	08/19/14 12:00	JMN	MANUAL	1	BXH1696
5	SM-4500-CLF	08/18/14	08/18/14 22:00	MSA	MANUAL	1	BXH2927
6	EPA-420.4	08/20/14	08/21/14 07:48	TDC	KONE-1	1	BXH1881
7	SM-4500SD	08/20/14	08/20/14 09:30	DIW	SPEC05	1	BXH1846
8	SM17-5210B	08/19/14	08/19/14 08:00	HPR	YSI-57	1.525	BXH2297

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2835						
Oil and Grease	BXH2835-BLK1	ND	mg/L	5.0	1.2	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXH2835										
Oil and Grease	BXH2835-BS1	LCS	35.500	39.100	mg/L	90.8		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXH2835	Used client sample: N										
Oil and Grease	DUP	1418901-55	ND	ND		mg/L			18		
	MS	1418901-55	ND	33.700	39.100	mg/L		86.2		78 - 114	
	MSD	1418901-55	ND	33.350	39.100	mg/L	1.0	85.3	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH1696						
MBAS	BXH1696-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BXH1846						
Total Sulfide	BXH1846-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BXH1881						
Total Phenolics	BXH1881-BLK1	ND	ug/L	50	6.3	
QC Batch ID: BXH2297						
Biochemical Oxygen Demand - Seeded	BXH2297-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BXH2397						
Total Suspended Solids (Glass Fiber)	BXH2397-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BXH2927						
Residual Chlorine	BXH2927-BLK1	ND	mg/L	0.10	0.10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXH1696										
MBAS	BXH1696-BS1	LCS	0.19180	0.20000	mg/L	95.9		85 - 115		
QC Batch ID: BXH1846										
Total Sulfide	BXH1846-BS1	LCS	0.51280	0.50000	mg/L	103		90 - 110		
QC Batch ID: BXH1881										
Total Phenolics	BXH1881-BS1	LCS	514.31	500.00	ug/L	103		85 - 115		
QC Batch ID: BXH2297										
Biochemical Oxygen Demand - Seeded	BXH2297-BS1	LCS	174.61	198.00	mg/L	88.2		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXH1696	Used client sample: N										
MBAS	DUP	1418961-03	0.15640	ND		mg/L			20		
	MS	1418961-03	0.15640	0.47720	0.40000	mg/L		80.2		80 - 120	
	MSD	1418961-03	0.15640	0.48160	0.40000	mg/L	0.9	81.3	20	80 - 120	
QC Batch ID: BXH1821	Used client sample: N										
Turbidity	DUP	1419009-01	0.25700	0.25800		NT Units	0.4		10		
QC Batch ID: BXH1846	Used client sample: Y - Description: BYA-6, 08/18/2014 12:45										
Total Sulfide	DUP	1419034-01	ND	ND		mg/L			10		
	MS	1419034-01	ND	0.43826	0.50000	mg/L		87.7		80 - 120	
	MSD	1419034-01	ND	0.43360	0.50000	mg/L	1.1	86.7	10	80 - 120	
QC Batch ID: BXH1881	Used client sample: N										
Total Phenolics	DUP	1419022-01	119.55	121.83		ug/L	1.9		20		
	MS	1419022-01	119.55	602.90	500.00	ug/L		96.7		80 - 120	
	MSD	1419022-01	119.55	598.04	500.00	ug/L	0.8	95.7	20	80 - 120	
QC Batch ID: BXH2105	Used client sample: Y - Description: BYA-6, 08/18/2014 12:45										
Settleable Solids	DUP	1419034-01	ND	ND		ml/L			10		
QC Batch ID: BXH2297	Used client sample: N										
Biochemical Oxygen Demand - Seeded	DUP	1419029-06	22.448	21.786		mg/L	3.0		20		
QC Batch ID: BXH2397	Used client sample: Y - Description: BYA-6, 08/18/2014 12:45										
Total Suspended Solids (Glass Fiber)	DUP	1419034-01	1.2500	1.2500		mg/L	0		10		
QC Batch ID: BXH2927	Used client sample: Y - Description: BYA-6, 08/18/2014 12:45										
Residual Chlorine	DUP	1419034-01	ND	ND		mg/L			10		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 08/29/2014 14:54
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
S05	The sample holding time was exceeded.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Date of Report: 09/09/2014

Tim Nicely

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1419899
Invoice ID:	B182792

Enclosed are the results of analyses for samples received by the laboratory on 8/27/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 6

Sample Results

1419899-01 - BYA-4

EPA Method 1664 7
Water Analysis (General Chemistry) 8

1419899-02 - BYA-7

EPA Method 1664 9
Water Analysis (General Chemistry) 10

1419899-03 - W-8

EPA Method 1664 11
Water Analysis (General Chemistry) 12

Quality Control Reports

EPA Method 1664

Method Blank Analysis 13
Laboratory Control Sample 14
Precision and Accuracy 15

Water Analysis (General Chemistry)

Method Blank Analysis 16
Laboratory Control Sample 17
Precision and Accuracy 18

Notes

Notes and Definitions 19

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

14-19899

* Required Fields

TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #
Fugro Consultants	Tim Nicely	805-289-3836	805-650-7010

E-mail: tnicely@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Project Information: Malibu-NPDES

PO # / BCL Quote #

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ☒ System No. *

Sampler Name Printed / Signature: TODD CURTIS

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	Residual Chlorine(SM4500-CL F)	Turbidity (EPA 180.1)
-1	5	8/27	1315	BYA-4	RGW	T=23.7 PH=6.94	/	/	/	/	/	/	/	/	/
~~-2~~	~~5~~	~~8/27~~		~~BYA-8~~ NOSAMPLE	~~RGW~~	~~T=24.4 PH=6.98~~									
-2	5	8/27	1405	BYA-7	RGW	T=24.4 PH=6.98	/	/	/	/	/	/	/	/	/
-3	5	8/27	1500	W-8	RGW	T=22.6 PH=6.90	/	/	/	/	/	/	/	/	/

SHORT HOLDING TIME: Cr+6 NO_2 NO_3 OP SS; DO Cl_2 BOD MBAS COT

CHK BY: MM DISTRIBUTION: MASTER SUB-OUT

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
Todd Curtis	FUGRO	8/27	17:20		BC Labs
	BC	8/27/14	19:50		
Received for Lab by: (Signature and Printed Name)		Date 8-27-14	Time 1950	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1419899 Page 2 of 3

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 17 06/05/14 Page 1 Of 2

Submission #: 14-19899

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time 8/27/14 1950

Temperature: (A) 0.2 °C / (C) 0.4 °C Analyst Init JW1

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	AB	AB								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	C	C								
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	D	D								
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA ~~508/608/8080~~ 1664	E	E								
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: JW1 Date/Time: 8/27/14 @ 2025 {S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1419899 Page 3 of 3

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 17 06/05/14 Page 2 Of 2

Submission #: 14-19899

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐ BC Lab Field Service ☒ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: Pe Thermometer ID: 207 Date/Time 8/27/14 1950

Temperature: (A) 0.3 °C / (C) 0.5 °C Analyst Init MM1

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL			A,B							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE			C							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS			D							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA ~~508/608/8080~~ 1664			E							
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: MM1 Date/Time: 8/27/14 @ 2025 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1419899-01	**COC Number:**	---	**Receive Date:**	08/27/2014 19:50
	Project Number:	---	**Sampling Date:**	08/27/2014 13:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-4	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Groundwater
1419899-02	**COC Number:**	---	**Receive Date:**	08/27/2014 19:50
	Project Number:	---	**Sampling Date:**	08/27/2014 14:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-7	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Groundwater
1419899-03	**COC Number:**	---	**Receive Date:**	08/27/2014 19:50
	Project Number:	---	**Sampling Date:**	08/27/2014 15:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-8	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1419899-01 | **Client Sample Name:** BYA-4, 8/27/2014 1:15:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	08/29/14	08/29/14 15:00	JAK	MAN-SV	1	BXI0579

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1419899-01 | **Client Sample Name:** BYA-4, 8/27/2014 1:15:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.70**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.66**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.015**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/03/14	09/03/14 14:20	VV1	MANUAL	1	BXI0264
2	EPA-160.5	08/28/14	08/28/14 06:45	HPR	MANUAL	1	BXI0174
3	EPA-180.1	08/29/14	08/29/14 08:30	MC1	MANUAL	1	BXH2942
4	EPA-425.1	08/29/14	08/29/14 07:30	JMN	MANUAL	1	BXH2825
5	SM-4500-CLF	08/28/14	08/28/14 08:00	MSA	MANUAL	1	BXI0811
6	EPA-420.4	09/03/14	09/04/14 07:36	TDC	KONE-1	1	BXI0253
7	SM-4500SD	08/29/14	08/29/14 08:30	DIW	SPEC05	1	BXI0030
8	SM17-5210B	08/28/14	08/28/14 07:45	HPR	YSI-57	1.525	BXI0429

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1419899-02 | **Client Sample Name:** BYA-7, 8/27/2014 2:05:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	08/29/14	08/29/14 15:00	JAK	MAN-SV	1	BXI0579

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1419899-02 | **Client Sample Name:** BYA-7, 8/27/2014 2:05:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**2.2**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.80**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/03/14	09/03/14 14:20	VV1	MANUAL	1.087	BXI0264
2	EPA-160.5	08/28/14	08/28/14 06:45	HPR	MANUAL	1	BXI0174
3	EPA-180.1	08/29/14	08/29/14 08:30	MC1	MANUAL	1	BXH2942
4	EPA-425.1	08/29/14	08/29/14 07:30	JMN	MANUAL	1	BXH2825
5	SM-4500-CLF	08/28/14	08/28/14 08:00	MSA	MANUAL	1	BXI0811
6	EPA-420.4	09/03/14	09/04/14 07:36	TDC	KONE-1	1	BXI0253
7	SM-4500SD	08/29/14	08/29/14 08:30	DIW	SPEC05	1	BXI0030
8	SM17-5210B	08/28/14	08/28/14 07:45	HPR	YSI-57	1.525	BXI0429

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1419899-03 | **Client Sample Name:** W-8, 8/27/2014 3:00:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	08/29/14	08/29/14 15:00	JAK	MAN-SV	1	BXI0579

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1419899-03 | **Client Sample Name:** W-8, 8/27/2014 3:00:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	ND	NT Units	0.10	0.10	EPA-180.1			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/03/14	09/03/14 14:20	VV1	MANUAL	1	BXI0264
2	EPA-160.5	08/28/14	08/28/14 06:45	HPR	MANUAL	1	BXI0174
3	EPA-180.1	08/29/14	08/29/14 08:30	MC1	MANUAL	1	BXH2942
4	EPA-425.1	08/29/14	08/29/14 07:30	JMN	MANUAL	1	BXH2825
5	SM-4500-CLF	08/28/14	08/28/14 08:00	MSA	MANUAL	1	BXI0811
6	EPA-420.4	09/03/14	09/04/14 07:36	TDC	KONE-1	1	BXI0253
7	SM-4500SD	08/29/14	08/29/14 08:30	DIW	SPEC05	1	BXI0030
8	SM17-5210B	08/28/14	08/28/14 07:45	HPR	YSI-57	1.525	BXI0429

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXI0579						
Oil and Grease	BXI0579-BLK1	ND	mg/L	5.0	1.2	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXI0579										
Oil and Grease	BXI0579-BS1	LCS	33.100	40.350	mg/L	82.0		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXI0579	Used client sample: N										
Oil and Grease	DUP	1418901-69	ND	ND		mg/L			18		
	MS	1418901-69	ND	35.700	40.350	mg/L		88.5		78 - 114	
	MSD	1418901-69	ND	36.750	40.350	mg/L	2.9	91.1	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXH2825						
MBAS	BXH2825-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BXI0030						
Total Sulfide	BXI0030-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BXI0253						
Total Phenolics	BXI0253-BLK1	ND	ug/L	50	6.3	
QC Batch ID: BXI0264						
Total Suspended Solids (Glass Fiber)	BXI0264-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BXI0429						
Biochemical Oxygen Demand - Seeded	BXI0429-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BXI0811						
Residual Chlorine	BXI0811-BLK1	ND	mg/L	0.10	0.10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXH2825										
MBAS	BXH2825-BS1	LCS	0.18980	0.20000	mg/L	94.9		85 - 115		
QC Batch ID: BXI0030										
Total Sulfide	BXI0030-BS1	LCS	0.51118	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXI0253										
Total Phenolics	BXI0253-BS1	LCS	495.39	500.00	ug/L	99.1		85 - 115		
QC Batch ID: BXI0429										
Biochemical Oxygen Demand - Seeded	BXI0429-BS1	LCS	194.69	198.00	mg/L	98.3		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXH2825	Used client sample: N										
MBAS	DUP	1419850-01	ND	ND		mg/L			20		
	MS	1419850-01	ND	0.39760	0.40000	mg/L		99.4		80 - 120	
	MSD	1419850-01	ND	0.40200	0.40000	mg/L	1.1	100	20	80 - 120	
QC Batch ID: BXH2942	Used client sample: N										
Turbidity	DUP	1419850-01	2.2500	2.2400		NT Units	0.4		10		
QC Batch ID: BXI0030	Used client sample: Y - Description: BYA-4, 08/27/2014 13:15										
Total Sulfide	DUP	1419899-01	ND	ND		mg/L			10		
	MS	1419899-01	ND	0.48012	0.50000	mg/L		96.0		80 - 120	
	MSD	1419899-01	ND	0.47646	0.50000	mg/L	0.8	95.3	10	80 - 120	
QC Batch ID: BXI0174	Used client sample: N										
Settleable Solids	DUP	1419915-02	ND	ND		ml/L			10		
QC Batch ID: BXI0253	Used client sample: N										
Total Phenolics	DUP	1419865-01	13.380	15.590		ug/L	15.3		20		J
	MS	1419865-01	13.380	506.11	500.00	ug/L		98.5		80 - 120	
	MSD	1419865-01	13.380	494.73	500.00	ug/L	2.3	96.3	20	80 - 120	
QC Batch ID: BXI0264	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1419793-01	308.00	286.00		mg/L	7.4		10		
QC Batch ID: BXI0429	Used client sample: N										
Biochemical Oxygen Demand - Seeded	DUP	1419839-03	37.820	40.667		mg/L	7.3		20		
QC Batch ID: BXI0811	Used client sample: Y - Description: BYA-4, 08/27/2014 13:15										
Residual Chlorine	DUP	1419899-01	ND	ND		mg/L			10		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/09/2014 17:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
S05	The sample holding time was exceeded.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Date of Report: 09/11/2014

Tim Nicely

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1420112
Invoice ID:	B183009

Enclosed are the results of analyses for samples received by the laboratory on 8/29/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 5

Sample Results

1420112-01 - HD-5

EPA Method 1664 6
Water Analysis (General Chemistry) 7

1420112-02 - HD-11

EPA Method 1664 8
Water Analysis (General Chemistry) 9

Quality Control Reports

EPA Method 1664

Method Blank Analysis 10
Laboratory Control Sample 11
Precision and Accuracy 12

Water Analysis (General Chemistry)

Method Blank Analysis 13
Laboratory Control Sample 14
Precision and Accuracy 15

Notes

Notes and Definitions 16

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

* Required Fields 14-20112 TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #: / FAX * #
Fugro Consultants	Tim Nicely	805-289-3836 / 805-650-7010
		E-mail: tnicely@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: Malibu-NPDES | PO # | BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: N. Simon

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	Residual Chlorine(SM4500-CL F)	Turbidity (EPA 180.1)
4	5	8-28	1:45p	HD-5 -1 RGW	water	PH 7.82, 22.1°C	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	5	8-28	1415	HD-11 -2 RGW	"	PH 7.42, 23.5°C	✓	✓	✓	✓	✓	✓	✓	✓	✓

SHORT HOLDING TIME
CHK BY DISTRIBUTION
SUB-OUT

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
N. Simon	Fugro	8-28	4:30p		BC Labs
	BC Labs	8/29/14	1145		BCL
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	
	8/29/14 1730	8-29-14	1730		

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1420112 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 17 06/05/14 Page 1 Of 1

Submission #: 14-20112

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: P6 Thermometer ID: 207 Date/Time: 8-29-14 1730

Temperature: (A) 0.5 °C / (C) 0.7 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	AB	AB								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	C	C								
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	D	D								
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1	E	E								
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: M Date/Time: 8-29-14 1818 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC16

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/11/2014 17:47
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1420112-01	**COC Number:**	---	**Receive Date:**	08/29/2014 17:30
	Project Number:	---	**Sampling Date:**	08/28/2014 13:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-5	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1420112-02	**COC Number:**	---	**Receive Date:**	08/29/2014 17:30
	Project Number:	---	**Sampling Date:**	08/28/2014 14:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-11	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/11/2014 17:47
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1420112-01 | **Client Sample Name:** HD-5, 8/28/2014 1:45:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	09/06/14	09/06/14 10:00	JAK	MAN-SV	1	BXI0728

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/11/2014 17:47
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1420112-01 | **Client Sample Name:** HD-5, 8/28/2014 1:45:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.0**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.24**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.20	0.030	EPA-425.1	ND	A01,S05	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	2.0	2.0	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/03/14	09/03/14 14:20	VV1	MANUAL	1.031	BXI0265
2	EPA-160.5	08/30/14	08/30/14 09:30	JRG	MANUAL	1	BXI0670
3	EPA-180.1	08/29/14	08/29/14 21:00	MC1	MANUAL	1	BXI0547
4	EPA-425.1	08/30/14	08/30/14 15:30	JMN	MANUAL	2	BXI0105
5	SM-4500-CLF	08/29/14	08/29/14 20:30	MSA	MANUAL	1	BXI1098
6	EPA-420.4	09/03/14	09/04/14 07:36	TDC	KONE-1	1	BXI0253
7	SM-4500SD	09/03/14	09/03/14 10:30	DIW	SPEC05	1	BXI0213
8	SM17-5210B	08/30/14	08/30/14 09:00	JRG	YSI-57	2.033	BXI0667

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/11/2014 17:47
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1420112-02 | **Client Sample Name:** HD-11, 8/28/2014 2:15:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	09/06/14	09/06/14 10:00	JAK	MAN-SV	1	BXI0728

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/11/2014 17:47
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1420112-02 | **Client Sample Name:** HD-11, 8/28/2014 2:15:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.2**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.37**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.039**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J,S05**	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	**3.7**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/03/14	09/03/14 14:20	VV1	MANUAL	1.020	BXI0265
2	EPA-160.5	08/30/14	08/30/14 09:30	JRG	MANUAL	1	BXI0670
3	EPA-180.1	08/29/14	08/29/14 21:00	MC1	MANUAL	1	BXI0547
4	EPA-425.1	08/30/14	08/30/14 15:30	JMN	MANUAL	1	BXI0105
5	SM-4500-CLF	08/29/14	08/29/14 20:30	MSA	MANUAL	1	BXI1098
6	EPA-420.4	09/03/14	09/04/14 07:40	TDC	KONE-1	1	BXI0253
7	SM-4500SD	09/03/14	09/03/14 10:30	DIW	SPEC05	1	BXI0213
8	SM17-5210B	08/30/14	08/30/14 09:00	JRG	YSI-57	1.525	BXI0667

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/11/2014 17:47
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXI0728						
Oil and Grease	BXI0728-BLK1	ND	mg/L	5.0	1.2	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/11/2014 17:47
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXI0728										
Oil and Grease	BXI0728-BS1	LCS	32.150	40.300	mg/L	79.8		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/11/2014 17:47
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXI0728	Used client sample: N										
Oil and Grease	DUP	1418901-68	ND	ND		mg/L			18		
	MS	1418901-68	ND	35.050	40.300	mg/L		87.0		78 - 114	
	MSD	1418901-68	ND	34.350	40.300	mg/L	2.0	85.2	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/11/2014 17:47
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXI0105						
MBAS	BXI0105-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BXI0213						
Total Sulfide	BXI0213-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BXI0253						
Total Phenolics	BXI0253-BLK1	ND	ug/L	50	6.3	
QC Batch ID: BXI0265						
Total Suspended Solids (Glass Fiber)	BXI0265-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BXI0667						
Biochemical Oxygen Demand - Seeded	BXI0667-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BXI1098						
Residual Chlorine	BXI1098-BLK1	ND	mg/L	0.10	0.10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/11/2014 17:47
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXI0105										
MBAS	BXI0105-BS1	LCS	0.18710	0.20000	mg/L	93.6		85 - 115		
QC Batch ID: BXI0213										
Total Sulfide	BXI0213-BS1	LCS	0.51757	0.50000	mg/L	104		90 - 110		
QC Batch ID: BXI0253										
Total Phenolics	BXI0253-BS1	LCS	495.39	500.00	ug/L	99.1		85 - 115		
QC Batch ID: BXI0667										
Biochemical Oxygen Demand - Seeded	BXI0667-BS1	LCS	187.58	198.00	mg/L	94.7		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/11/2014 17:47
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXI0105	Used client sample: Y - Description: HD-5, 08/28/2014 13:45										
MBAS	DUP	1420112-01	ND	ND		mg/L			20		
	MS	1420112-01	ND	0.39680	0.40000	mg/L		99.2		80 - 120	
	MSD	1420112-01	ND	0.40120	0.40000	mg/L	1.1	100	20	80 - 120	
QC Batch ID: BXI0213	Used client sample: Y - Description: HD-5, 08/28/2014 13:45										
Total Sulfide	DUP	1420112-01	ND	ND		mg/L			10		
	MS	1420112-01	ND	0.47148	0.50000	mg/L		94.3		80 - 120	
	MSD	1420112-01	ND	0.46513	0.50000	mg/L	1.4	93.0	10	80 - 120	
QC Batch ID: BXI0253	Used client sample: N										
Total Phenolics	DUP	1419865-01	13.380	15.590		ug/L	15.3		20		J
	MS	1419865-01	13.380	506.11	500.00	ug/L		98.5		80 - 120	
	MSD	1419865-01	13.380	494.73	500.00	ug/L	2.3	96.3	20	80 - 120	
QC Batch ID: BXI0265	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1419919-04	180.00	181.54		mg/L	0.9		10		
QC Batch ID: BXI0547	Used client sample: Y - Description: HD-5, 08/28/2014 13:45										
Turbidity	DUP	1420112-01	0.23800	0.23600		NT Units	0.8		10		
QC Batch ID: BXI0667	Used client sample: Y - Description: HD-5, 08/28/2014 13:45										
Biochemical Oxygen Demand - Seeded	DUP	1420112-01	ND	ND		mg/L			20		
QC Batch ID: BXI0670	Used client sample: N										
Settleable Solids	DUP	420091-01RE´	1.0000	1.0000		ml/L	0		10		
QC Batch ID: BXI1098	Used client sample: Y - Description: HD-5, 08/28/2014 13:45										
Residual Chlorine	DUP	1420112-01	ND	ND		mg/L			10		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 09/11/2014 17:47
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
S05	The sample holding time was exceeded.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Date of Report: 10/06/2014

Tim Nicely

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1422332
Invoice ID:	B185141

Enclosed are the results of analyses for samples received by the laboratory on 9/23/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 9

Sample Results

1422332-01 - HD-43
EPA Method 1664 11
Water Analysis (General Chemistry) 12

1422332-02 - HD-30
EPA Method 1664 13
Water Analysis (General Chemistry) 14

1422332-03 - BYA-4
EPA Method 1664 15
Water Analysis (General Chemistry) 16

1422332-04 - BYA-7
EPA Method 1664 17
Water Analysis (General Chemistry) 18

1422332-05 - BYA-6
EPA Method 1664 19
Water Analysis (General Chemistry) 20

1422332-06 - W-8
EPA Method 1664 21
Water Analysis (General Chemistry) 22

1422332-07 - HD-12
EPA Method 1664 23
Water Analysis (General Chemistry) 24

1422332-08 - HD-11
EPA Method 1664 25
Water Analysis (General Chemistry) 26

1422332-09 - HD-5
EPA Method 1664 27
Water Analysis (General Chemistry) 28

1422332-10 - HD-7
EPA Method 1664 29
Water Analysis (General Chemistry) 30

Quality Control Reports

EPA Method 1664
Method Blank Analysis 31
Laboratory Control Sample 32
Precision and Accuracy 33

Water Analysis (General Chemistry)
Method Blank Analysis 34
Laboratory Control Sample 35
Precision and Accuracy 36

Notes

Notes and Definitions 37

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

14.22332

Chain of Custody

* Required Fields

TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	805-289-3836	805-650-7010

E-mail: tnicely@fugro.com; tcurtis@fugro.com

Address * 4820 McGrath Street, Suite 100 City * Ventura State * CA Zip * 93003

Project Information: Malibu-NPDES

PO # / BCL Quote #

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: N. Simon

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	Residual Chlorine(SM4500-CL F)	Turbidity (EPA 180.1)
1	6	9.22	10:30	HD-43	RGW	Ph 7.85, 22.4 °C	X	X	X	X	X	X	X	X	X
2	6	"	11:05	HD-30	"	Ph 7.23, 22.1 °C	"	"	"	"	"	"	"	"	"
3	6	"	11:35	BYA-4	"	Ph 6.96, 21.8°C	"	"	"	"	"	"	"	"	"
4	6	"	12:05	BYA-7	"	Ph 7.63, 23.7°C	"	"	"	"	"	"	"	"	"
5	6	"	12:40	BYA-6	"	Ph 6.96, 22.9 °C	"	"	"	"	"	"	"	"	"
6	6	"	13:00	W-8	"	Ph 6.92, 22.1 °C	"	"	"	"	"	"	"	"	"

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

CHK BY DISTRIBUTION
WHITE
SUB OUT

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Print Name)	Company
Nick Simon	Fugro	9.22	3:20pm		BC Labs
	BC Labs	9/23/14	2:45		BC
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery:	
		9/23/14	1725	Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

Rec: 9/23/14 1725

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

14-22332

* Required Fields TEMP: ____

Client/Company Name *:	Report Attention *:	Phone * #: / FAX * #
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	805-289-3836 / 805-650-7010
		E-mail: tnicely@fugro.com; tcurtis@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other: ____

Project Information: Malibu-NPDES | PO # | BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☑ System No. *

Sampler Name Printed / Signature: N. Simon

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	Residual Chlorine(SM4500-CL F)	Turbidity (EPA 180.1)
7	6	9-23	09:40	HD-12	RGW	pH 7.34, 22.2 °C	X	X	X	X	X	X	X	X	X
8	1		09:55	HD-11	1	pH 7.40, 23.2 °C	1	1	1	1	1	1	1	1	1
9	1		10:45	HD-5	1	pH 8.05, 22.0 °C	1	1	1	1	1	1	1	1	1
10	1	1	11:15	HD-7	1	pH 8.05, 24.4 °C	1	1	1	1	1	1	1	1	1

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
N. Simon	Fugro	9-23-14	3:00		BC Labs
	BC Labs	9-23-14	15:00		BC Labs
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	
		9-23-14	1725		

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material: ____

Rec: 9/23/14 1725

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1422332 Page 3 of 6

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 1 Of 4

Submission #: 14-22332

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.96 Container: PE Thermometer ID: 207 Date/Time 9.23.14 1725

Temperature: (A) 0.6 °C / (C) 0.2 °C Analyst Init JM

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC				ABC				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D				D				
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E				E				
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F				F				
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: M Date/Time: 9.23.14 1910 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1422332 Page 4 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 of 4

Submission #: 14-22332

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received
☑ YES ☐ NO

Emissivity: 0.98 Container: TE Thermometer ID: 207 Date/Time 9.23.14 1725

Temperature: (A) 0.7 °C / (C) 0.3 °C Analyst Init TT

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL			WBC	ABC	ABC					
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE			D	D	D					
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS			E	E	E					
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1			F	F	F					
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: TT Date/Time: 9.23.14 1910 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1422332 Page 5 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 3 Of 4

Submission #: 14-22332

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time 7-23-14 1725

Temperature: (A) 1.8 °C / (C) 1.4 °C Analyst Init MM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL							ABC	ABC		
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE							D	D		
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS							E	E		
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1							F	A		
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: MM Date/Time: 07-23-14 1905 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1422332 Page 6 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 9 Of 9

Submission #: 14-22332

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐ BC Lab Field Service ☑ Other ☐ (Specify)_____	Ice Chest ☑ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: Amber Thermometer ID: 207 Date/Time 9.28.14 1725

Temperature: (A) 1.4 °C / (C) 1.2 °C Analyst Init TT

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL									ABC	ABC
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE									D	D
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS									E	E
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1									F	F
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: TT Date/Time: 9.28.14 1900 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1422332-01	**COC Number:**	---	**Receive Date:**	09/23/2014 17:25
	Project Number:	---	**Sampling Date:**	09/22/2014 10:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-43	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1422332-02	**COC Number:**	---	**Receive Date:**	09/23/2014 17:25
	Project Number:	---	**Sampling Date:**	09/22/2014 11:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-30	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1422332-03	**COC Number:**	---	**Receive Date:**	09/23/2014 17:25
	Project Number:	---	**Sampling Date:**	09/22/2014 11:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-4	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1422332-04	**COC Number:**	---	**Receive Date:**	09/23/2014 17:25
	Project Number:	---	**Sampling Date:**	09/22/2014 12:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-7	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1422332-05	**COC Number:**	---	**Receive Date:**	09/23/2014 17:25
	Project Number:	---	**Sampling Date:**	09/22/2014 12:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-6	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1422332-06	**COC Number:**	---	**Receive Date:**	09/23/2014 17:25
	Project Number:	---	**Sampling Date:**	09/22/2014 13:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-8	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1422332-07	**COC Number:**	---	**Receive Date:**	09/23/2014 17:25
	Project Number:	---	**Sampling Date:**	09/23/2014 09:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-12	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1422332-08	**COC Number:**	---	**Receive Date:**	09/23/2014 17:25
	Project Number:	---	**Sampling Date:**	09/23/2014 09:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-11	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1422332-09	**COC Number:**	---	**Receive Date:**	09/23/2014 17:25
	Project Number:	---	**Sampling Date:**	09/23/2014 10:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-5	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1422332-10	**COC Number:**	---	**Receive Date:**	09/23/2014 17:25
	Project Number:	---	**Sampling Date:**	09/23/2014 11:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-7	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1422332-01 | **Client Sample Name:** HD-43, 9/22/2014 10:30:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	10/01/14	10/01/14 09:30	JAK	MAN-SV	1	BXJ0190

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1422332-01 | **Client Sample Name:** HD-43, 9/22/2014 10:30:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	1.0	1.0	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.13**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.20	0.030	EPA-425.1	ND	A01	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/25/14	09/25/14 14:10	VV1	MANUAL	2	BXI2446
2	EPA-160.5	09/24/14	09/24/14 07:20	HPR	MANUAL	1	BXI2489
3	EPA-180.1	09/24/14	09/24/14 08:00	MC1	MANUAL	1	BXI2543
4	EPA-425.1	09/24/14	09/24/14 09:00	JMN	MANUAL	2	BXI2269
5	SM-4500-CLF	09/24/14	09/24/14 09:00	MSA	MANUAL	1	BXJ0131
6	EPA-420.4	09/24/14	09/24/14 13:25	TDC	KONE-1	1	BXI2301
7	SM-4500SD	09/25/14	09/25/14 08:30	DIW	SPEC05	1	BXI2401
8	SM17-5210B	09/24/14	09/24/14 08:10	HPR	YSI-57	1.525	BXI2747

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1422332-02 | **Client Sample Name:** HD-30, 9/22/2014 11:05:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	10/01/14	10/01/14 09:30	JAK	MAN-SV	1	BXJ0190

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1422332-02 | **Client Sample Name:** HD-30, 9/22/2014 11:05:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	ND	NT Units	0.10	0.10	EPA-180.1			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/25/14	09/25/14 14:10	VV1	MANUAL	1	BXI2446
2	EPA-160.5	09/24/14	09/24/14 07:20	HPR	MANUAL	1	BXI2489
3	EPA-180.1	09/24/14	09/24/14 08:00	MC1	MANUAL	1	BXI2543
4	EPA-425.1	09/24/14	09/24/14 09:00	JMN	MANUAL	1	BXI2269
5	SM-4500-CLF	09/24/14	09/24/14 09:00	MSA	MANUAL	1	BXJ0131
6	EPA-420.4	09/24/14	09/24/14 13:25	TDC	KONE-1	1	BXI2301
7	SM-4500SD	09/25/14	09/25/14 08:30	DIW	SPEC05	1	BXI2401
8	SM17-5210B	09/24/14	09/24/14 08:10	HPR	YSI-57	1.525	BXI2747

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1422332-03 | **Client Sample Name:** BYA-4, 9/22/2014 11:35:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	10/01/14	10/01/14 09:30	JAK	MAN-SV	1	BXJ0190

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1422332-03 | **Client Sample Name:** BYA-4, 9/22/2014 11:35:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.50**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	ND	NT Units	0.10	0.10	EPA-180.1			3
MBAS	**0.016**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/25/14	09/25/14 14:10	VV1	MANUAL	1	BXI2446
2	EPA-160.5	09/24/14	09/24/14 07:20	HPR	MANUAL	1	BXI2489
3	EPA-180.1	09/24/14	09/24/14 08:00	MC1	MANUAL	1	BXI2543
4	EPA-425.1	09/24/14	09/24/14 09:00	JMN	MANUAL	1	BXI2269
5	SM-4500-CLF	09/24/14	09/24/14 09:00	MSA	MANUAL	1	BXJ0131
6	EPA-420.4	09/24/14	09/24/14 12:59	TDC	KONE-1	1	BXI2301
7	SM-4500SD	09/25/14	09/25/14 08:30	DIW	SPEC05	1	BXI2401
8	SM17-5210B	09/24/14	09/24/14 08:10	HPR	YSI-57	1.525	BXI2747

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1422332-04 | **Client Sample Name:** BYA-7, 9/22/2014 12:05:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	**1.4**	**mg/L**	**5.0**	**1.2**	**EPA-1664A HEM**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	10/01/14	10/01/14 09:30	JAK	MAN-SV	1	BXJ0190

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1422332-04 | **Client Sample Name:** BYA-7, 9/22/2014 12:05:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.50**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.16**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/25/14	09/25/14 14:10	VV1	MANUAL	1	BXI2446
2	EPA-160.5	09/24/14	09/24/14 07:20	HPR	MANUAL	1	BXI2489
3	EPA-180.1	09/24/14	09/24/14 08:00	MC1	MANUAL	1	BXI2543
4	EPA-425.1	09/24/14	09/24/14 09:00	JMN	MANUAL	1	BXI2269
5	SM-4500-CLF	09/24/14	09/24/14 09:00	MSA	MANUAL	1	BXJ0131
6	EPA-420.4	09/24/14	09/24/14 13:25	TDC	KONE-1	1	BXI2301
7	SM-4500SD	09/25/14	09/25/14 08:30	DIW	SPEC05	1	BXI2401
8	SM17-5210B	09/24/14	09/24/14 08:10	HPR	YSI-57	1.525	BXI2748

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1422332-05 | **Client Sample Name:** BYA-6, 9/22/2014 12:40:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	10/01/14	10/01/14 09:30	JAK	MAN-SV	1	BXJ0190

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1422332-05 | **Client Sample Name:** BYA-6, 9/22/2014 12:40:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.31**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/25/14	09/25/14 14:10	VV1	MANUAL	1	BXI2446
2	EPA-160.5	09/24/14	09/24/14 07:20	HPR	MANUAL	1	BXI2489
3	EPA-180.1	09/24/14	09/24/14 08:00	MC1	MANUAL	1	BXI2543
4	EPA-425.1	09/24/14	09/24/14 09:00	JMN	MANUAL	1	BXI2269
5	SM-4500-CLF	09/24/14	09/24/14 09:00	MSA	MANUAL	1	BXJ0131
6	EPA-420.4	09/24/14	09/24/14 13:25	TDC	KONE-1	1	BXI2301
7	SM-4500SD	09/25/14	09/25/14 08:30	DIW	SPEC05	1	BXI2401
8	SM17-5210B	09/24/14	09/24/14 08:10	HPR	YSI-57	1.525	BXI2748

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1422332-06 | **Client Sample Name:** W-8, 9/22/2014 1:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	10/01/14	10/01/14 09:30	JAK	MAN-SV	1	BXJ0190

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1422332-06 | **Client Sample Name:** W-8, 9/22/2014 1:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.12**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/25/14	09/25/14 14:10	VV1	MANUAL	1	BXI2446
2	EPA-160.5	09/24/14	09/24/14 07:20	HPR	MANUAL	1	BXI2489
3	EPA-180.1	09/24/14	09/24/14 08:00	MC1	MANUAL	1	BXI2543
4	EPA-425.1	09/24/14	09/24/14 09:00	JMN	MANUAL	1	BXI2269
5	SM-4500-CLF	09/24/14	09/24/14 09:00	MSA	MANUAL	1	BXJ0131
6	EPA-420.4	09/25/14	09/25/14 14:37	TDC	KONE-1	1	BXI2438
7	SM-4500SD	09/25/14	09/25/14 08:30	DIW	SPEC05	1	BXI2401
8	SM17-5210B	09/24/14	09/24/14 08:10	HPR	YSI-57	1.525	BXI2748

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1422332-07 | **Client Sample Name:** HD-12, 9/23/2014 9:40:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	10/01/14	10/01/14 09:30	JAK	MAN-SV	1	BXJ0190

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1422332-07 | **Client Sample Name:** HD-12, 9/23/2014 9:40:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	ND	NT Units	0.10	0.10	EPA-180.1			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	**1.5**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/25/14	09/25/14 14:10	VV1	MANUAL	1	BXI2446
2	EPA-160.5	09/24/14	09/24/14 07:20	HPR	MANUAL	1	BXI2489
3	EPA-180.1	09/24/14	09/24/14 08:00	MC1	MANUAL	1	BXI2543
4	EPA-425.1	09/24/14	09/24/14 09:00	JMN	MANUAL	1	BXI2269
5	SM-4500-CLF	09/24/14	09/24/14 09:00	MSA	MANUAL	1	BXJ0131
6	EPA-420.4	09/25/14	09/25/14 14:37	TDC	KONE-1	1	BXI2438
7	SM-4500SD	09/25/14	09/25/14 08:30	DIW	SPEC05	1	BXI2401
8	SM17-5210B	09/24/14	09/24/14 08:10	HPR	YSI-57	1.525	BXI2748

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1422332-08 | **Client Sample Name:** HD-11, 9/23/2014 9:55:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	10/01/14	10/01/14 09:30	JAK	MAN-SV	1	BXJ0190

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1422332-08 | **Client Sample Name:** HD-11, 9/23/2014 9:55:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	ND	NT Units	0.10	0.10	EPA-180.1			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/25/14	09/25/14 14:10	VV1	MANUAL	1	BXI2446
2	EPA-160.5	09/24/14	09/24/14 07:20	HPR	MANUAL	1	BXI2489
3	EPA-180.1	09/24/14	09/24/14 08:00	MC1	MANUAL	1	BXI2543
4	EPA-425.1	09/24/14	09/24/14 09:00	JMN	MANUAL	1	BXI2269
5	SM-4500-CLF	09/24/14	09/24/14 09:00	MSA	MANUAL	1	BXJ0131
6	EPA-420.4	09/25/14	09/25/14 14:37	TDC	KONE-1	1	BXI2438
7	SM-4500SD	09/25/14	09/25/14 08:30	DIW	SPEC05	1	BXI2401
8	SM17-5210B	09/24/14	09/24/14 08:10	HPR	YSI-57	1.525	BXI2748

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1422332-09 | **Client Sample Name:** HD-5, 9/23/2014 10:45:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	10/01/14	10/01/14 09:30	JAK	MAN-SV	1	BXJ0190

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1422332-09 | **Client Sample Name:** HD-5, 9/23/2014 10:45:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.31**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.018**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/25/14	09/25/14 14:10	VV1	MANUAL	1	BXI2446
2	EPA-160.5	09/24/14	09/24/14 07:20	HPR	MANUAL	1	BXI2489
3	EPA-180.1	09/24/14	09/24/14 08:00	MC1	MANUAL	1	BXI2543
4	EPA-425.1	09/24/14	09/24/14 09:00	JMN	MANUAL	1	BXI2269
5	SM-4500-CLF	09/24/14	09/24/14 09:00	MSA	MANUAL	1	BXJ0131
6	EPA-420.4	09/25/14	09/25/14 14:37	TDC	KONE-1	1	BXI2438
7	SM-4500SD	09/25/14	09/25/14 08:30	DIW	SPEC05	1	BXI2401
8	SM17-5210B	09/24/14	09/24/14 08:10	HPR	YSI-57	1.525	BXI2748

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1422332-10 | **Client Sample Name:** HD-7, 9/23/2014 11:15:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	10/01/14	10/01/14 09:30	JAK	MAN-SV	1	BXJ0190

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1422332-10 | **Client Sample Name:** HD-7, 9/23/2014 11:15:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.16**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.016**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	6.3	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	09/25/14	09/25/14 14:10	VV1	MANUAL	1	BXI2446
2	EPA-160.5	09/24/14	09/24/14 07:20	HPR	MANUAL	1	BXI2489
3	EPA-180.1	09/24/14	09/24/14 08:00	MC1	MANUAL	1	BXI2543
4	EPA-425.1	09/24/14	09/24/14 09:00	JMN	MANUAL	1	BXI2269
5	SM-4500-CLF	09/24/14	09/24/14 09:00	MSA	MANUAL	1	BXJ0131
6	EPA-420.4	09/25/14	09/25/14 14:37	TDC	KONE-1	1	BXI2438
7	SM-4500SD	09/25/14	09/25/14 08:30	DIW	SPEC05	1	BXI2401
8	SM17-5210B	09/24/14	09/24/14 08:10	HPR	YSI-57	1.525	BXI2748

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXJ0190						
Oil and Grease	BXJ0190-BLK1	ND	mg/L	5.0	1.2	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXJ0190										
Oil and Grease	BXJ0190-BS1	LCS	34.450	38.700	mg/L	89.0		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXJ0190	Used client sample: N										
Oil and Grease	DUP	1421801-49	ND	ND		mg/L			18		
	MS	1421801-49	ND	31.550	38.700	mg/L		81.5		78 - 114	
	MSD	1421801-49	ND	33.450	38.700	mg/L	5.8	86.4	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXI2269						
MBAS	BXI2269-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BXI2301						
Total Phenolics	BXI2301-BLK1	ND	ug/L	50	6.3	
QC Batch ID: BXI2401						
Total Sulfide	BXI2401-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BXI2438						
Total Phenolics	BXI2438-BLK1	ND	ug/L	50	6.3	
QC Batch ID: BXI2446						
Total Suspended Solids (Glass Fiber)	BXI2446-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BXI2747						
Biochemical Oxygen Demand - Seeded	BXI2747-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BXI2748						
Biochemical Oxygen Demand - Seeded	BXI2748-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BXJ0131						
Residual Chlorine	BXJ0131-BLK1	ND	mg/L	0.10	0.10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXI2269										
MBAS	BXI2269-BS1	LCS	0.18890	0.20000	mg/L	94.4		85 - 115		
QC Batch ID: BXI2301										
Total Phenolics	BXI2301-BS1	LCS	484.55	500.00	ug/L	96.9		85 - 115		
QC Batch ID: BXI2401										
Total Sulfide	BXI2401-BS1	LCS	0.51440	0.50000	mg/L	103		90 - 110		
QC Batch ID: BXI2438										
Total Phenolics	BXI2438-BS1	LCS	472.86	500.00	ug/L	94.6		85 - 115		
QC Batch ID: BXI2747										
Biochemical Oxygen Demand - Seeded	BXI2747-BS1	LCS	175.98	198.00	mg/L	88.9		85 - 115		
QC Batch ID: BXI2748										
Biochemical Oxygen Demand - Seeded	BXI2748-BS1	LCS	175.98	198.00	mg/L	88.9		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXI2269	Used client sample: Y - Description: HD-43, 09/22/2014 10:30										
MBAS	DUP	1422332-01	ND	ND		mg/L			20		
	MS	1422332-01	ND	0.39140	0.40000	mg/L		97.8		80 - 120	
	MSD	1422332-01	ND	0.39140	0.40000	mg/L	0	97.8	20	80 - 120	
QC Batch ID: BXI2301	Used client sample: N										
Total Phenolics	DUP	1422174-01	ND	ND		ug/L			20		
	MS	1422174-01	ND	489.41	500.00	ug/L		97.9		80 - 120	
	MSD	1422174-01	ND	488.26	500.00	ug/L	0.2	97.7	20	80 - 120	
QC Batch ID: BXI2401	Used client sample: Y - Description: HD-43, 09/22/2014 10:30										
Total Sulfide	DUP	1422332-01	ND	ND		mg/L			10		
	MS	1422332-01	ND	0.42045	0.50000	mg/L		84.1		80 - 120	
	MSD	1422332-01	ND	0.42381	0.50000	mg/L	0.8	84.8	10	80 - 120	
QC Batch ID: BXI2438	Used client sample: Y - Description: W-8, 09/22/2014 13:00										
Total Phenolics	DUP	1422332-06	ND	ND		ug/L			20		
	MS	1422332-06	ND	493.51	500.00	ug/L		98.7		80 - 120	
	MSD	1422332-06	ND	481.91	500.00	ug/L	2.4	96.4	20	80 - 120	
QC Batch ID: BXI2446	Used client sample: Y - Description: HD-43, 09/22/2014 10:30										
Total Suspended Solids (Glass Fiber)	DUP	1422332-01	ND	ND		mg/L			10		
QC Batch ID: BXI2489	Used client sample: Y - Description: HD-43, 09/22/2014 10:30										
Settleable Solids	DUP	1422332-01	ND	ND		ml/L			10		
QC Batch ID: BXI2543	Used client sample: Y - Description: HD-43, 09/22/2014 10:30										
Turbidity	DUP	1422332-01	0.12900	0.12700		NT Units	1.6		10		
QC Batch ID: BXI2747	Used client sample: N										
Biochemical Oxygen Demand - Seeded	DUP	1422272-01	3538.0	3456.7		mg/L	2.3		20		
QC Batch ID: BXI2748	Used client sample: Y - Description: BYA-7, 09/22/2014 12:05										
Biochemical Oxygen Demand - Seeded	DUP	1422332-04	ND	ND		mg/L			20		
QC Batch ID: BXJ0131	Used client sample: Y - Description: HD-43, 09/22/2014 10:30										
Residual Chlorine	DUP	1422332-01	ND	ND		mg/L			10		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 10/06/2014 10:10
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
S05	The sample holding time was exceeded.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

APPENDIX E-2
WATER QUALITY LABORATORY DATA
FOURTH QUARTER (OCTOBER-DECEMBER) 2014

Date of Report: 11/18/2014

Tim Nicely

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1425832
Invoice ID:	B188968

Enclosed are the results of analyses for samples received by the laboratory on 10/31/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 10

Sample Results

1425832-01 - W-18
EPA Method 1664 12
Water Analysis (General Chemistry) 13

1425832-02 - BYA-H10
EPA Method 1664 14
Water Analysis (General Chemistry) 15

1425832-03 - HD-4
EPA Method 1664 16
Water Analysis (General Chemistry) 17

1425832-04 - HD-22
EPA Method 1664 18
Water Analysis (General Chemistry) 19

1425832-05 - HD-23
EPA Method 1664 20
Water Analysis (General Chemistry) 21

1425832-06 - W-2
EPA Method 1664 22
Water Analysis (General Chemistry) 23

1425832-07 - BYA-11
EPA Method 1664 24
Water Analysis (General Chemistry) 25

1425832-08 - W-16
EPA Method 1664 26
Water Analysis (General Chemistry) 27

1425832-09 - BYA-14
EPA Method 1664 28
Water Analysis (General Chemistry) 29

1425832-10 - BYA-1
EPA Method 1664 30
Water Analysis (General Chemistry) 31

Quality Control Reports

EPA Method 1664
Method Blank Analysis 32
Laboratory Control Sample 33
Precision and Accuracy 34

Water Analysis (General Chemistry)
Method Blank Analysis 35
Laboratory Control Sample 36
Precision and Accuracy 37

Notes

Notes and Definitions 38

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody 1 of 2

14-25832

* Required Fields

TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	805-289-3836	805-650-7010

E-mail: tnicely@fugro.com; tcurtis@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Project Information: Malibu-NPDES

PO #

BCL Quote #

How would you like your completed results sent? [✓] E-Mail [ ] Fax [ ] EDD [ ] Mail Only

Sampler Name Printed / Signature: N. Simon / N. S

QC Request: [✓] STD [ ] Level II

Result Request ** Surcharge: [✓] STD [ ] 5 Day** [ ] 2 Day** [ ] 1 Day**

Carbon Copies: CDHS [ ] Fresno Co [ ] EPA [ ] Merced Co [ ] Tulare Co [ ] Other:

Regulatory Compliance: Electronic Data Transfer: Y [ ] N [ ] System No. *

ANALYSIS REQUESTED

Matrix Types: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code 21.7 7.07 ↓	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	Residual Chlorine(SM4500-CL F)	Turbidity (EPA 180.1)
1	6	10-30	10:20	W-18 -1	RGW	~~22.2°C, 7.09 pH~~	X								1
2	6	10-30	10:50	BYA-1410 -2	RGW	22.2°C, 7.09 pH	X								1
3	6	10-30	11:15	HD-4 -3	RGW	22.2°C, pH 6.78	X								1
4	6	10-30	11:40	HD-22 -4	RGW	21.5°C, pH 7.31	X								1
5	6	10-30	12:00	HD-23 -5	RGW	21.70°C, pH 7.19	X								1
6	6	10-30	12:40	W-2 -6	RGW	21.3, pH 6.84	X								1
~~7~~	6	10-30	1325	BYA-11 -7	RGW	21.7, pH 6.98	X								1
~~8~~	6	10-30	1340	BYA-	RGW										
9	6	10-30	1355	W-16 -8	RGW	22.8, pH 7.33	X								1
10	6	10-30	1430	BYA-14 -9	RGW	22.7, pH 7.15	X								1
8	1	10-30	1340	BYA-1 (oil & grease only) -10	RGW					X					

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
N. Simon Nicholas Simon	Fugro	10/30/14	16:30		BC LabS
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
	BC LabS	10/31/14	12:30		10/31/14 1230
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody 2 of 2

14-25832

* Required Fields TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #: 805-289-3836 FAX * # 805-650-7010
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	E-mail: tnicely@fugro.com; tcurtis@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: Malibu-NPDES | PO # | BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: N. Simon

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water; CFW = Clorinated Finished Water; CWW = Chorinated Waste Water; BW = Bottled Water; RGW = Raw Ground Water; FW = Finished Water; WW = Waste Water; SW = Storm Water; DW = Drinking Water; SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	Residual Chlorine(SM4500-CL F)	Turbidity (EPA 180.1)
~~8~~	~~6~~	~~10-31~~													
8	6	10-31	13:45	BYA-1 (-10)	RGW	21.6°C, 7.06 pH	X	X	X		X	X	X	X	X

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
T. Simon N. Simon	Fugro	10/31	3:55		BC Labs
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
	BC Labs	10/31/14	2105		BC Labs
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1425832 Page 3 of 7

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-25832 10/31/14 5

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☑
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☐ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: PE Thermometer ID: 007 Date/Time 103114

Temperature: (A) 1.9 °C / (C) 1.5 °C Analyst Init MKB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D								
2oz. NITRATE / NITRITE										
PT ~~TOTAL ORGANIC CARBON~~ phenol	E	E								
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F								
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME OP (MBAS) (SS) O&G
Cr^{+6} NO_2 NO_3 (BOD) Cl_2 DO

DISTRIBUTION SUB OUT CHK BY

Comments: No description, time or date on - 1 bottles.
Sample Numbering Completed By: KLB Date/Time: 10/31/14 1307 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1425832 Page 4 of 7

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 2 Of 4

Submission #: 14-25832 MW 10/31/14 S

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☑	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☐ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: Pe Thermometer ID: 207 Date/Time 10/31/14 1230

Temperature: (A) 1.0 °C / (C) 0.6 °C Analyst Init MVB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL			ABC	ABC	ABC					
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE			D	D	D					
2oz. NITRATE / NITRITE										
PT ~~TOTAL ORGANIC CARBON~~ (phenol)			E	E	E					
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1			F	F	F					
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: KLB Date/Time: 10/31/14 1307 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1425832 Page 5 of 7

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 2 Of 4

Submission #: 14-25832 MM 10/31/14 5

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☑
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? ~~Yes~~ ☑ No ☐ All samples containers intact? ~~Yes~~ ☑ No ☐ Description(s) match COC? ~~Yes~~ ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time 103114

Temperature: (A) 1.2 °C / (C) 0.8 °C Analyst Init MM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL						ABC	ABC	ABC		
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE						D	D	D		
2oz. NITRATE / NITRITE										
PT ~~TOTAL ORGANIC CARBON~~ phenol						E	E	E		
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1						F	F	F		
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: KLB Date/Time: 10/31/14 1307 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1425832 Page 6 of 7

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 4 Of 5

Submission #: 14-25832

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☑
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☐ No ☒

COC Received ☐ YES ☐ NO

Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time 10/31/14

Temperature: (A) 5.2 °C / (C) 4.8 °C Analyst Init MM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL									ABC	A
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE									D	
2oz. NITRATE / NITRITE										
PT ~~TOTAL ORGANIC CARBON~~ phenol									E	
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1									F	B
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: NO description, date or time on -10 bottles.
Sample Numbering Completed By: KLB Date/Time: 10/31/14 1307 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1425832 Page 7 of 7

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 5 Of 5

Submission #: 14-25832

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: Pe Thermometer ID: 207 Date/Time 10/31/14 2105

Temperature: (A) 0.8 °C / (C) 0.4 °C Analyst Init MV1

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	CDEF									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	G									
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	H									
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: MV1 Date/Time: 10/31/14 @2140 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1425832-01	**COC Number:**	---	**Receive Date:**	10/31/2014 12:30
	Project Number:	---	**Sampling Date:**	10/30/2014 10:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-18	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1425832-02	**COC Number:**	---	**Receive Date:**	10/31/2014 12:30
	Project Number:	---	**Sampling Date:**	10/30/2014 10:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-H10	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1425832-03	**COC Number:**	---	**Receive Date:**	10/31/2014 12:30
	Project Number:	---	**Sampling Date:**	10/30/2014 11:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-4	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1425832-04	**COC Number:**	---	**Receive Date:**	10/31/2014 12:30
	Project Number:	---	**Sampling Date:**	10/30/2014 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-22	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1425832-05	**COC Number:**	---	**Receive Date:**	10/31/2014 12:30
	Project Number:	---	**Sampling Date:**	10/30/2014 12:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-23	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1425832-06	**COC Number:**	---	**Receive Date:**	10/31/2014 12:30
	Project Number:	---	**Sampling Date:**	10/30/2014 12:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-2	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1425832-07	**COC Number:**	---	**Receive Date:**	10/31/2014 12:30
	Project Number:	---	**Sampling Date:**	10/30/2014 13:25
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-11	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1425832-08	**COC Number:**	---	**Receive Date:**	10/31/2014 12:30
	Project Number:	---	**Sampling Date:**	10/30/2014 13:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-16	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1425832-09	**COC Number:**	---	**Receive Date:**	10/31/2014 12:30
	Project Number:	---	**Sampling Date:**	10/30/2014 14:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-14	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1425832-10	**COC Number:**	---	**Receive Date:**	10/31/2014 12:30
	Project Number:	---	**Sampling Date:**	10/30/2014 13:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-1	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1425832-01 | **Client Sample Name:** W-18, 10/30/2014 10:20:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/06/14	11/06/14 08:30	JAK	MAN-SV	1	BXK0503

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1425832-01 | **Client Sample Name:** W-18, 10/30/2014 10:20:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**2.7**	**mg/L**	**1.1**	**1.1**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**1.2**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/05/14	11/05/14 12:45	VV1	MANUAL	2.105	BXK0380
2	EPA-160.5	10/31/14	10/31/14 13:40	HPR	MANUAL	1	BXK0023
3	EPA-180.1	10/31/14	10/31/14 15:30	MC1	MANUAL	1	BXK0216
4	SM-4500-CLF	10/31/14	10/31/14 14:30	MSA	MANUAL	1	BXK0864
5	EPA-420.4	11/04/14	11/04/14 14:34	TDC	KONE-1	1	BXK0213
6	SM-4500SD	11/04/14	11/04/14 14:00	DIW	MANUAL	1	BXK0245
7	SM17-5210B	10/31/14	10/31/14 13:00	HPR	YSI-57	1.525	BXK0304

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1425832-02 | **Client Sample Name:** BYA-H10, 10/30/2014 10:50:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/06/14	11/06/14 08:30	JAK	MAN-SV	1	BXK0503

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1425832-02 | **Client Sample Name:** BYA-H10, 10/30/2014 10:50:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.10**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/05/14	11/05/14 12:45	VV1	MANUAL	1.042	BXK0380
2	EPA-160.5	10/31/14	10/31/14 13:40	HPR	MANUAL	1	BXK0023
3	EPA-180.1	10/31/14	10/31/14 15:30	MC1	MANUAL	1	BXK0216
4	SM-4500-CLF	10/31/14	10/31/14 14:30	MSA	MANUAL	1	BXK0864
5	EPA-420.4	11/04/14	11/04/14 14:34	TDC	KONE-1	1	BXK0213
6	SM-4500SD	11/04/14	11/04/14 14:00	DIW	MANUAL	1	BXK0245
7	SM17-5210B	10/31/14	10/31/14 13:00	HPR	YSI-57	1.525	BXK0304

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1425832-03 | **Client Sample Name:** HD-4, 10/30/2014 11:15:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/06/14	11/06/14 08:30	JAK	MAN-SV	1	BXK0503

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1425832-03 | **Client Sample Name:** HD-4, 10/30/2014 11:15:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**2.0**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.14**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/05/14	11/05/14 12:45	VV1	MANUAL	1	BXK0380
2	EPA-160.5	10/31/14	10/31/14 13:40	HPR	MANUAL	1	BXK0023
3	EPA-180.1	10/31/14	10/31/14 15:30	MC1	MANUAL	1	BXK0216
4	SM-4500-CLF	10/31/14	10/31/14 14:30	MSA	MANUAL	1	BXK0864
5	EPA-420.4	11/04/14	11/04/14 14:34	TDC	KONE-1	1	BXK0213
6	SM-4500SD	11/04/14	11/04/14 14:00	DIW	MANUAL	1	BXK0245
7	SM17-5210B	10/31/14	10/31/14 13:00	HPR	YSI-57	1.525	BXK0304

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1425832-04 | **Client Sample Name:** HD-22, 10/30/2014 11:40:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/06/14	11/06/14 08:30	JAK	MAN-SV	1	BXK0503

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1425832-04 | **Client Sample Name:** HD-22, 10/30/2014 11:40:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**2.0**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**4.6**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	**1.7**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/05/14	11/05/14 12:45	VV1	MANUAL	1	BXK0380
2	EPA-160.5	10/31/14	10/31/14 13:40	HPR	MANUAL	1	BXK0023
3	EPA-180.1	10/31/14	10/31/14 15:30	MC1	MANUAL	1	BXK0216
4	SM-4500-CLF	10/31/14	10/31/14 14:30	MSA	MANUAL	1	BXK0864
5	EPA-420.4	11/04/14	11/04/14 14:34	TDC	KONE-1	1	BXK0213
6	SM-4500SD	11/04/14	11/04/14 14:00	DIW	MANUAL	1	BXK0245
7	SM17-5210B	10/31/14	10/31/14 13:00	HPR	YSI-57	1.525	BXK0304

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1425832-05 | **Client Sample Name:** HD-23, 10/30/2014 12:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/06/14	11/06/14 08:30	JAK	MAN-SV	1	BXK0503

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1425832-05 | **Client Sample Name:** HD-23, 10/30/2014 12:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.51**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.14**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/05/14	11/05/14 12:45	VV1	MANUAL	1.020	BXK0380
2	EPA-160.5	10/31/14	10/31/14 13:40	HPR	MANUAL	1	BXK0023
3	EPA-180.1	10/31/14	10/31/14 15:30	MC1	MANUAL	1	BXK0216
4	SM-4500-CLF	10/31/14	10/31/14 14:30	MSA	MANUAL	1	BXK0864
5	EPA-420.4	11/04/14	11/04/14 14:34	TDC	KONE-1	1	BXK0213
6	SM-4500SD	11/04/14	11/04/14 14:00	DIW	MANUAL	1	BXK0245
7	SM17-5210B	10/31/14	10/31/14 13:00	HPR	YSI-57	1.525	BXK0304

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1425832-06 | **Client Sample Name:** W-2, 10/30/2014 12:40:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/06/14	11/06/14 08:30	JAK	MAN-SV	1	BXK0503

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1425832-06 | **Client Sample Name:** W-2, 10/30/2014 12:40:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.1**	**mg/L**	**0.56**	**0.56**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.42**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/05/14	11/05/14 12:45	VV1	MANUAL	1.124	BXK0380
2	EPA-160.5	10/31/14	10/31/14 13:40	HPR	MANUAL	1	BXK0023
3	EPA-180.1	10/31/14	10/31/14 15:30	MC1	MANUAL	1	BXK0216
4	SM-4500-CLF	10/31/14	10/31/14 14:30	MSA	MANUAL	1	BXK0864
5	EPA-420.4	11/04/14	11/04/14 14:40	TDC	KONE-1	1	BXK0213
6	SM-4500SD	11/04/14	11/04/14 14:00	DIW	MANUAL	1	BXK0245
7	SM17-5210B	10/31/14	10/31/14 13:00	HPR	YSI-57	1.525	BXK0304

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1425832-07 | **Client Sample Name:** BYA-11, 10/30/2014 1:25:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/06/14	11/06/14 08:30	JAK	MAN-SV	1	BXK0503

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1425832-07 | **Client Sample Name:** BYA-11, 10/30/2014 1:25:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.14**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/05/14	11/05/14 12:45	VV1	MANUAL	1	BXK0380
2	EPA-160.5	10/31/14	10/31/14 13:40	HPR	MANUAL	1	BXK0023
3	EPA-180.1	10/31/14	10/31/14 15:30	MC1	MANUAL	1	BXK0216
4	SM-4500-CLF	10/31/14	10/31/14 14:30	MSA	MANUAL	1	BXK0864
5	EPA-420.4	11/04/14	11/04/14 14:40	TDC	KONE-1	1	BXK0213
6	SM-4500SD	11/04/14	11/04/14 14:00	DIW	MANUAL	1	BXK0245
7	SM17-5210B	10/31/14	10/31/14 13:00	HPR	YSI-57	1.525	BXK0306

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1425832-08 | **Client Sample Name:** W-16, 10/30/2014 1:55:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/06/14	11/06/14 08:30	JAK	MAN-SV	1	BXK0503

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1425832-08 | **Client Sample Name:** W-16, 10/30/2014 1:55:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.1**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.19**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/05/14	11/05/14 12:45	VV1	MANUAL	1	BXK0380
2	EPA-160.5	10/31/14	10/31/14 13:40	HPR	MANUAL	1	BXK0133
3	EPA-180.1	10/31/14	10/31/14 15:30	MC1	MANUAL	1	BXK0216
4	SM-4500-CLF	10/31/14	10/31/14 14:30	MSA	MANUAL	1	BXK0864
5	EPA-420.4	11/04/14	11/04/14 14:40	TDC	KONE-1	1	BXK0213
6	SM-4500SD	11/04/14	11/04/14 14:00	DIW	MANUAL	1	BXK0245
7	SM17-5210B	10/31/14	10/31/14 13:00	HPR	YSI-57	1.525	BXK0306

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1425832-09 | **Client Sample Name:** BYA-14, 10/30/2014 2:30:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/06/14	11/06/14 08:30	JAK	MAN-SV	1	BXK0503

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1425832-09 | **Client Sample Name:** BYA-14, 10/30/2014 2:30:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.13**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/05/14	11/05/14 12:45	VV1	MANUAL	1	BXK0380
2	EPA-160.5	10/31/14	10/31/14 13:40	HPR	MANUAL	1	BXK0133
3	EPA-180.1	10/31/14	10/31/14 15:30	MC1	MANUAL	1	BXK0216
4	SM-4500-CLF	10/31/14	10/31/14 14:30	MSA	MANUAL	1	BXK0864
5	EPA-420.4	11/04/14	11/04/14 14:40	TDC	KONE-1	1	BXK0213
6	SM-4500SD	11/04/14	11/04/14 14:00	DIW	MANUAL	1	BXK0245
7	SM17-5210B	10/31/14	10/31/14 13:00	HPR	YSI-57	1.525	BXK0306

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1425832-10 | **Client Sample Name:** BYA-1, 10/30/2014 1:40:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/06/14	11/06/14 08:30	JAK	MAN-SV	1	BXK0503

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1425832-10 | **Client Sample Name:** BYA-1, 10/30/2014 1:40:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**61**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	**0.20**	**ml/L**	**0.10**	**0.10**	**EPA-160.5**			2
Turbidity	**620**	**NT Units**	**3.0**	**3.0**	**EPA-180.1**		**A01**	3
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	4
Total Phenolics	**14**	**ug/L**	**50**	**10**	**EPA-420.4**	ND	**J**	5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	**2.2**	**mg/L**	**2.0**	**2.0**	**SM17-5210B**			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/05/14	11/05/14 12:45	VV1	MANUAL	1.010	BXK0380
2	EPA-160.5	11/01/14	11/01/14 09:45	HPR	MANUAL	1	BXK0095
3	EPA-180.1	11/01/14	11/01/14 08:30	MC1	MANUAL	30	BXK0217
4	SM-4500-CLF	11/01/14	11/01/14 12:00	MSA	MANUAL	1	BXK0866
5	EPA-420.4	11/04/14	11/04/14 14:40	TDC	KONE-1	1	BXK0213
6	SM-4500SD	11/04/14	11/04/14 14:00	DIW	MANUAL	1	BXK0245
7	SM17-5210B	11/01/14	11/01/14 09:50	HPR	YSI-57	2.033	BXK0494

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK0503						
Oil and Grease	BXK0503-BLK1	ND	mg/L	5.0	1.2	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXK0503										
Oil and Grease	BXK0503-BS1	LCS	31.600	38.900	mg/L	81.2		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXK0503	Used client sample: N										
Oil and Grease	DUP	1425343-20	ND	ND		mg/L			18		
	MS	1425343-20	ND	32.150	38.900	mg/L		82.6		78 - 114	
	MSD	1425343-20	ND	33.150	38.900	mg/L	3.1	85.2	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK0213						
Total Phenolics	BXK0213-BLK1	ND	ug/L	50	10	
QC Batch ID: BXK0245						
Total Sulfide	BXK0245-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BXK0304						
Biochemical Oxygen Demand - Seeded	BXK0304-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BXK0306						
Biochemical Oxygen Demand - Seeded	BXK0306-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BXK0380						
Total Suspended Solids (Glass Fiber)	BXK0380-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BXK0494						
Biochemical Oxygen Demand - Seeded	BXK0494-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BXK0864						
Residual Chlorine	BXK0864-BLK1	ND	mg/L	0.10	0.10	
QC Batch ID: BXK0866						
Residual Chlorine	BXK0866-BLK1	ND	mg/L	0.10	0.10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXK0213										
Total Phenolics	BXK0213-BS1	LCS	493.20	500.00	ug/L	98.6		85 - 115		
QC Batch ID: BXK0245										
Total Sulfide	BXK0245-BS1	LCS	0.51634	0.50000	mg/L	103		90 - 110		
QC Batch ID: BXK0304										
Biochemical Oxygen Demand - Seeded	BXK0304-BS1	LCS	187.58	198.00	mg/L	94.7		85 - 115		
QC Batch ID: BXK0306										
Biochemical Oxygen Demand - Seeded	BXK0306-BS1	LCS	187.58	198.00	mg/L	94.7		85 - 115		
QC Batch ID: BXK0494										
Biochemical Oxygen Demand - Seeded	BXK0494-BS1	LCS	181.98	198.00	mg/L	91.9		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXK0023	Used client sample: N										
Settleable Solids	DUP	1425715-02	ND	ND		ml/L			10		
QC Batch ID: BXK0095	Used client sample: N										
Settleable Solids	DUP	1425857-01	ND	ND		ml/L			10		
QC Batch ID: BXK0133	Used client sample: Y - Description: W-16, 10/30/2014 13:55										
Settleable Solids	DUP	1425832-08	ND	ND		ml/L			10		
QC Batch ID: BXK0213	Used client sample: Y - Description: W-18, 10/30/2014 10:20										
Total Phenolics	DUP	1425832-01	ND	ND		ug/L			20		
	MS	1425832-01	ND	493.18	500.00	ug/L		98.6		80 - 120	
	MSD	1425832-01	ND	487.23	500.00	ug/L	1.2	97.4	20	80 - 120	
QC Batch ID: BXK0216	Used client sample: Y - Description: W-18, 10/30/2014 10:20										
Turbidity	DUP	1425832-01	1.1500	1.1500		NT Units	0		10		
QC Batch ID: BXK0217	Used client sample: N										
Turbidity	DUP	1425857-01	2.2000	2.1100		NT Units	4.2		10		
QC Batch ID: BXK0245	Used client sample: Y - Description: W-18, 10/30/2014 10:20										
Total Sulfide	DUP	1425832-01	ND	ND		mg/L			10		
	MS	1425832-01	ND	0.49707	0.50000	mg/L		99.4		80 - 120	
	MSD	1425832-01	ND	0.49867	0.50000	mg/L	0.3	99.7	10	80 - 120	
QC Batch ID: BXK0304	Used client sample: N										
Biochemical Oxygen Demand - Seeded	DUP	1425786-05	4404.2	4331.0		mg/L	1.7		20		
QC Batch ID: BXK0306	Used client sample: Y - Description: W-16, 10/30/2014 13:55										
Biochemical Oxygen Demand - Seeded	DUP	1425832-08	ND	ND		mg/L			20		
QC Batch ID: BXK0380	Used client sample: Y - Description: W-18, 10/30/2014 10:20										
Total Suspended Solids (Glass Fiber)	DUP	1425832-01	2.7368	2.7368		mg/L	0		10		
QC Batch ID: BXK0494	Used client sample: Y - Description: BYA-1, 10/30/2014 13:40										
Biochemical Oxygen Demand - Seeded	DUP	1425832-10	2.1553	2.1045		mg/L	2.4		20		
QC Batch ID: BXK0864	Used client sample: Y - Description: W-18, 10/30/2014 10:20										
Residual Chlorine	DUP	1425832-01	ND	ND		mg/L			10		
QC Batch ID: BXK0866	Used client sample: Y - Description: BYA-1, 10/30/2014 13:40										
Residual Chlorine	DUP	1425832-10	ND	ND		mg/L			10		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 11/18/2014 16:26
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
S05	The sample holding time was exceeded.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Date of Report: 12/04/2014

Tim Nicely

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1427780
Invoice ID:	B190131

Enclosed are the results of analyses for samples received by the laboratory on 11/21/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 8

Sample Results

1427780-01 - BYA-H10

EPA Method 1664 10
Water Analysis (General Chemistry) 11

1427780-02 - HD-4

EPA Method 1664 12
Water Analysis (General Chemistry) 13

1427780-03 - HD-2R

EPA Method 1664 14
Water Analysis (General Chemistry) 15

1427780-04 - HD-23

EPA Method 1664 16
Water Analysis (General Chemistry) 17

1427780-05 - BYA-1

EPA Method 1664 18
Water Analysis (General Chemistry) 19

1427780-06 - W-2

EPA Method 1664 20
Water Analysis (General Chemistry) 21

1427780-07 - BYA-14

EPA Method 1664 22
Water Analysis (General Chemistry) 23

1427780-08 - W-16

EPA Method 1664 24
Water Analysis (General Chemistry) 25

1427780-09 - W-18

EPA Method 1664 26
Water Analysis (General Chemistry) 27

1427780-10 - BYA-11

EPA Method 1664 28
Water Analysis (General Chemistry) 29

Quality Control Reports

EPA Method 1664

Method Blank Analysis 30
Laboratory Control Sample 31
Precision and Accuracy 32

Water Analysis (General Chemistry)

Method Blank Analysis 33
Laboratory Control Sample 34
Precision and Accuracy 35

Notes

Notes and Definitions 36

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

14-27780

Chain of Custody

* Required Fields

TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	805-289-3836	805-650-7010

E-mail: tnicely@fugro.com; tcurtis@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Project Information: Malibu-NPDES

PO #

BCL Quote #

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: N. Simon / [signature]

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	Residual Chlorine(SM4500-CL F)	Turbidity (EPA 180.1)
1	6	11-20	1026	BYA-H10	RGW	PH6.93, 23.0C	X								✓
2	6	11-20	1040	HD-4		pH7.10 22.2C	X								✓
3	6	11-20	1100	HD-2R		pH7.06, 21.4°C	X								✓
4	6	11-20	1115	HD-23		pH 7.13, 21.7	X								✓
5	6	11-20	1145	BYA-1		no PH;T obtained	X								✓
6	6		1200	W-2		pH6.80, 21.2°C	X								✓
7	6		1220	BYA-14		pH 7.11, 21.9°C	X								✓
8	6		1240	W-16		pH 7.19, 22.5°C	X								✓
9			1300	W-18 pH7.21, 22.4°C		pH 7.33 21.4°C	X								✓
10	6	"	1315	BYA-11	"	7.33 21.4°C	X								✓

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Print Name)	Company
[signature] N. Simon	Fugro	11-2014	1535	[signature]	BC Labs
[signature]	BC Lab	11/21	10:15a	[signature]	11/21/14 10:15
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 /Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1427780 Page 2 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 4

Submission #: 14-27780

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☑	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☐ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: QE Thermometer ID: 208 Date/Time 11/21/14

Temperature: (A) 0.7 °C / (C) 0.3 °C Analyst Init MM 1015

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL						A,B,	A,B,	A,B,		
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE						D	D	D		
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS						E	E	E		
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1						F	F	F		
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

CHK BY DISTRIBUTION MAS EDF SUB-OUT

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COD

Comments:_____

Sample Numbering Completed By: _____ Date/Time: 11/21/14 1410 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1427780 Page 3 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 Of 4

Submission #: 14-27780

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☑
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑YES ☐ NO

Emissivity: 0.98 Container: DB Thermometer ID: 208 Date/Time 11/21/14 1015

Temperature: (A) 0.9 °C / (C) 0.5 °C Analyst Init MM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL			A,B,C	A,B,C	A,B,C					
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE			D	D	D					
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS			E	E	E					
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1			F	F	F					
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By:_____ Date/Time: 11/21/14 1110 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1427780 Page 4 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 3 Of 4

Submission #: 14-27780

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☑
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: BE Thermometer ID: 208 Date/Time 11/21/14 1015

Temperature: (A) 0.5 °C / (C) 0.1 °C Analyst Init WB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL									A,B,C	A,B,C
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE									D	D
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS									E	E
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1									F	F
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: _____ Date/Time: 11/21/14 1110 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1427780 Page 5 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 4 Of 4

Submission #: 14-27780

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☑	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☐ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

☑ COC Received ☐ YES ☐ NO

Emissivity: 098 Container: PB Thermometer ID: 208 Date/Time 11/21/14 1015

Temperature: (A) 2.4 °C / (C) 2.0 °C Analyst Init MM3

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A,B,C	A,B,C								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D								
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E								
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F								
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By:_____ Date/Time: 11/21/14 1140 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427780-01	**COC Number:**	---	**Receive Date:**	11/21/2014 10:15
	Project Number:	---	**Sampling Date:**	11/20/2014 10:26
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-H10	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1427780-02	**COC Number:**	---	**Receive Date:**	11/21/2014 10:15
	Project Number:	---	**Sampling Date:**	11/20/2014 10:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-4	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1427780-03	**COC Number:**	---	**Receive Date:**	11/21/2014 10:15
	Project Number:	---	**Sampling Date:**	11/20/2014 11:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-2R	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1427780-04	**COC Number:**	---	**Receive Date:**	11/21/2014 10:15
	Project Number:	---	**Sampling Date:**	11/20/2014 11:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-23	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1427780-05	**COC Number:**	---	**Receive Date:**	11/21/2014 10:15
	Project Number:	---	**Sampling Date:**	11/20/2014 11:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-1	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1427780-06	**COC Number:**	---	**Receive Date:**	11/21/2014 10:15
	Project Number:	---	**Sampling Date:**	11/20/2014 12:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-2	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1427780-07	**COC Number:**	---	**Receive Date:**	11/21/2014 10:15
	Project Number:	---	**Sampling Date:**	11/20/2014 12:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-14	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427780-08	**COC Number:**	---	**Receive Date:**	11/21/2014 10:15
	Project Number:	---	**Sampling Date:**	11/20/2014 12:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-16	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1427780-09	**COC Number:**	---	**Receive Date:**	11/21/2014 10:15
	Project Number:	---	**Sampling Date:**	11/20/2014 13:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-18	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1427780-10	**COC Number:**	---	**Receive Date:**	11/21/2014 10:15
	Project Number:	---	**Sampling Date:**	11/20/2014 13:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-11	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1427780-01 | **Client Sample Name:** BYA-H10, 11/20/2014 10:26:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/24/14	11/24/14 12:00	JAK	MAN-SV	1	BXL0124

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1427780-01 | **Client Sample Name:** BYA-H10, 11/20/2014 10:26:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.50**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.15**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/25/14	11/25/14 14:15	VV1	MANUAL	1	BXK2226
2	EPA-160.5	11/21/14	11/21/14 11:45	HPR	MANUAL	1	BXK2060
3	EPA-180.1	11/21/14	11/21/14 14:00	MC1	MANUAL	1	BXL0024
4	EPA-425.1	11/21/14	11/21/14 11:30	JMN	MANUAL	1	BXK1907
5	SM-4500-CLF	11/21/14	11/21/14 13:00	MSA	MANUAL	1	BXL0415
6	EPA-420.4	12/01/14	12/01/14 14:58	TDC	KONE-1	1	BXL0073
7	SM-4500SD	11/24/14	11/24/14 15:45	DIW	SPEC05	1	BXK2120
8	SM17-5210B	11/21/14	11/21/14 11:30	HPR	YSI-57	1.525	BXK2282

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1427780-02 | **Client Sample Name:** HD-4, 11/20/2014 10:40:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/24/14	11/24/14 12:00	JAK	MAN-SV	1	BXL0124

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1427780-02 | **Client Sample Name:** HD-4, 11/20/2014 10:40:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**5.1**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/25/14	11/25/14 14:15	VV1	MANUAL	1	BXK2226
2	EPA-160.5	11/21/14	11/21/14 11:45	HPR	MANUAL	1	BXK2060
3	EPA-180.1	11/21/14	11/21/14 14:00	MC1	MANUAL	1	BXL0024
4	EPA-425.1	11/21/14	11/21/14 11:30	JMN	MANUAL	1	BXK1907
5	SM-4500-CLF	11/21/14	11/21/14 13:00	MSA	MANUAL	1	BXL0415
6	EPA-420.4	12/01/14	12/01/14 14:58	TDC	KONE-1	1	BXL0073
7	SM-4500SD	11/24/14	11/24/14 15:45	DIW	SPEC05	1	BXK2120
8	SM17-5210B	11/21/14	11/21/14 11:30	HPR	YSI-57	1.525	BXK2282

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1427780-03 | **Client Sample Name:** HD-2R, 11/20/2014 11:00:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/24/14	11/24/14 12:00	JAK	MAN-SV	1	BXL0124

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1427780-03 | **Client Sample Name:** HD-2R, 11/20/2014 11:00:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.9**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.16**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.20	0.030	EPA-425.1	ND	A01	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/25/14	11/25/14 14:15	VV1	MANUAL	1	BXK2226
2	EPA-160.5	11/21/14	11/21/14 11:45	HPR	MANUAL	1	BXK2060
3	EPA-180.1	11/21/14	11/21/14 14:00	MC1	MANUAL	1	BXL0024
4	EPA-425.1	11/21/14	11/21/14 11:30	JMN	MANUAL	2	BXK2046
5	SM-4500-CLF	11/21/14	11/21/14 13:00	MSA	MANUAL	1	BXL0415
6	EPA-420.4	12/01/14	12/01/14 14:58	TDC	KONE-1	1	BXL0073
7	SM-4500SD	11/24/14	11/24/14 15:45	DIW	SPEC05	1	BXK2120
8	SM17-5210B	11/21/14	11/21/14 11:30	HPR	YSI-57	1.525	BXK2282

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1427780-04 | **Client Sample Name:** HD-23, 11/20/2014 11:15:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/24/14	11/24/14 12:00	JAK	MAN-SV	1	BXL0124

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1427780-04 | **Client Sample Name:** HD-23, 11/20/2014 11:15:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.70**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.24**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/25/14	11/25/14 14:15	VV1	MANUAL	1	BXK2226
2	EPA-160.5	11/21/14	11/21/14 11:45	HPR	MANUAL	1	BXK2062
3	EPA-180.1	11/21/14	11/21/14 14:00	MC1	MANUAL	1	BXL0024
4	EPA-425.1	11/21/14	11/21/14 11:30	JMN	MANUAL	1	BXK2046
5	SM-4500-CLF	11/21/14	11/21/14 13:00	MSA	MANUAL	1	BXL0415
6	EPA-420.4	12/01/14	12/01/14 14:58	TDC	KONE-1	1	BXL0073
7	SM-4500SD	11/24/14	11/24/14 15:45	DIW	SPEC05	1	BXK2120
8	SM17-5210B	11/21/14	11/21/14 11:30	HPR	YSI-57	1.525	BXK2282

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1427780-05 | **Client Sample Name:** BYA-1, 11/20/2014 11:45:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/24/14	11/24/14 12:00	JAK	MAN-SV	1	BXL0124

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1427780-05 | **Client Sample Name:** BYA-1, 11/20/2014 11:45:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**78**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	**1.0**	**ml/L**	**0.10**	**0.10**	**EPA-160.5**			2
Turbidity	**190**	**NT Units**	**1.0**	**1.0**	**EPA-180.1**		**A01**	3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/25/14	11/25/14 14:15	VV1	MANUAL	1	BXK2226
2	EPA-160.5	11/21/14	11/21/14 11:45	HPR	MANUAL	1	BXK2062
3	EPA-180.1	11/21/14	11/21/14 14:00	MC1	MANUAL	10	BXL0024
4	EPA-425.1	11/21/14	11/21/14 11:30	JMN	MANUAL	1	BXK2046
5	SM-4500-CLF	11/21/14	11/21/14 13:00	MSA	MANUAL	1	BXL0415
6	EPA-420.4	12/01/14	12/01/14 14:58	TDC	KONE-1	1	BXL0073
7	SM-4500SD	11/24/14	11/24/14 15:45	DIW	SPEC05	1	BXK2120
8	SM17-5210B	11/21/14	11/21/14 11:30	HPR	YSI-57	1.525	BXK2282

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1427780-06 | **Client Sample Name:** W-2, 11/20/2014 12:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/24/14	11/24/14 12:00	JAK	MAN-SV	1	BXL0124

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1427780-06 | **Client Sample Name:** W-2, 11/20/2014 12:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.1**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.44**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/25/14	11/25/14 14:15	VV1	MANUAL	1	BXK2226
2	EPA-160.5	11/21/14	11/21/14 11:45	HPR	MANUAL	1	BXK2062
3	EPA-180.1	11/21/14	11/21/14 14:00	MC1	MANUAL	1	BXL0024
4	EPA-425.1	11/21/14	11/21/14 11:30	JMN	MANUAL	1	BXK2046
5	SM-4500-CLF	11/21/14	11/21/14 13:00	MSA	MANUAL	1	BXL0415
6	EPA-420.4	12/01/14	12/01/14 15:04	TDC	KONE-1	1	BXL0073
7	SM-4500SD	11/24/14	11/24/14 15:45	DIW	SPEC05	1	BXK2120
8	SM17-5210B	11/21/14	11/21/14 11:30	HPR	YSI-57	1.525	BXK2282

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1427780-07 | **Client Sample Name:** BYA-14, 11/20/2014 12:20:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/24/14	11/24/14 12:00	JAK	MAN-SV	1	BXL0124

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1427780-07 | **Client Sample Name:** BYA-14, 11/20/2014 12:20:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.80**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.38**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/25/14	11/25/14 14:15	VV1	MANUAL	1	BXK2227
2	EPA-160.5	11/21/14	11/21/14 11:45	HPR	MANUAL	1	BXK2062
3	EPA-180.1	11/21/14	11/21/14 14:00	MC1	MANUAL	1	BXL0024
4	EPA-425.1	11/21/14	11/21/14 11:30	JMN	MANUAL	1	BXK2046
5	SM-4500-CLF	11/21/14	11/21/14 13:00	MSA	MANUAL	1	BXL0415
6	EPA-420.4	12/01/14	12/01/14 15:04	TDC	KONE-1	1	BXL0073
7	SM-4500SD	11/24/14	11/24/14 15:45	DIW	SPEC05	1	BXK2120
8	SM17-5210B	11/21/14	11/21/14 11:30	HPR	YSI-57	1.525	BXK2282

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1427780-08 | **Client Sample Name:** W-16, 11/20/2014 12:40:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/24/14	11/24/14 12:00	JAK	MAN-SV	1	BXL0124

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1427780-08 | **Client Sample Name:** W-16, 11/20/2014 12:40:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.50**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.18**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.021**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/25/14	11/25/14 14:15	VV1	MANUAL	1	BXK2227
2	EPA-160.5	11/21/14	11/21/14 11:45	HPR	MANUAL	1	BXK2062
3	EPA-180.1	11/21/14	11/21/14 14:00	MC1	MANUAL	1	BXL0024
4	EPA-425.1	11/21/14	11/21/14 11:30	JMN	MANUAL	1	BXK2046
5	SM-4500-CLF	11/21/14	11/21/14 13:00	MSA	MANUAL	1	BXL0415
6	EPA-420.4	12/01/14	12/01/14 15:04	TDC	KONE-1	1	BXL0073
7	SM-4500SD	11/24/14	11/24/14 15:45	DIW	SPEC05	1	BXK2120
8	SM17-5210B	11/21/14	11/21/14 11:30	HPR	YSI-57	1.525	BXK2282

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1427780-09 | **Client Sample Name:** W-18, 11/20/2014 1:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/24/14	11/24/14 12:00	JAK	MAN-SV	1	BXL0124

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1427780-09 | **Client Sample Name:** W-18, 11/20/2014 1:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**14**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	**0.10**	**ml/L**	**0.10**	**0.10**	**EPA-160.5**			2
Turbidity	**5.6**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.017**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/25/14	11/25/14 14:15	VV1	MANUAL	1	BXK2227
2	EPA-160.5	11/21/14	11/21/14 11:45	HPR	MANUAL	1	BXK2062
3	EPA-180.1	11/21/14	11/21/14 14:00	MC1	MANUAL	1	BXL0024
4	EPA-425.1	11/21/14	11/21/14 11:30	JMN	MANUAL	1	BXK2046
5	SM-4500-CLF	11/21/14	11/21/14 13:00	MSA	MANUAL	1	BXL0415
6	EPA-420.4	12/01/14	12/01/14 15:04	TDC	KONE-1	1	BXL0073
7	SM-4500SD	11/24/14	11/24/14 15:45	DIW	SPEC05	1	BXK2120
8	SM17-5210B	11/21/14	11/21/14 11:30	HPR	YSI-57	1.525	BXK2282

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1427780-10 | **Client Sample Name:** BYA-11, 11/20/2014 1:15:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	11/26/14	11/26/14 08:40	JAK	MAN-SV	1	BXL0240

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1427780-10 | **Client Sample Name:** BYA-11, 11/20/2014 1:15:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.60**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.26**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	11/25/14	11/25/14 14:15	VV1	MANUAL	1	BXK2227
2	EPA-160.5	11/21/14	11/21/14 11:45	HPR	MANUAL	1	BXK2062
3	EPA-180.1	11/21/14	11/21/14 14:00	MC1	MANUAL	1	BXL0024
4	EPA-425.1	11/21/14	11/21/14 11:30	JMN	MANUAL	1	BXK2046
5	SM-4500-CLF	11/21/14	11/21/14 13:00	MSA	MANUAL	1	BXL0415
6	EPA-420.4	12/01/14	12/01/14 15:04	TDC	KONE-1	1	BXL0073
7	SM-4500SD	11/24/14	11/24/14 15:45	DIW	SPEC05	1	BXK2120
8	SM17-5210B	11/21/14	11/21/14 11:30	HPR	YSI-57	1.525	BXK2284

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXL0124						
Oil and Grease	BXL0124-BLK1	ND	mg/L	5.0	1.2	
QC Batch ID: BXL0240						
Oil and Grease	BXL0240-BLK1	ND	mg/L	5.0	1.2	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXL0124										
Oil and Grease	BXL0124-BS1	LCS	34.250	37.900	mg/L	90.4		78 - 114		
QC Batch ID: BXL0240										
Oil and Grease	BXL0240-BS1	LCS	34.450	35.400	mg/L	97.3		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXL0124	Used client sample: N										
Oil and Grease	DUP	1425343-38	ND	ND		mg/L			18		
	MS	1425343-38	ND	33.200	37.900	mg/L		87.6		78 - 114	
	MSD	1425343-38	ND	33.800	37.900	mg/L	1.8	89.2	18	78 - 114	
QC Batch ID: BXL0240	Used client sample: N										
Oil and Grease	DUP	1425343-76	ND	ND		mg/L			18		
	MS	1425343-76	ND	32.450	35.400	mg/L		91.7		78 - 114	
	MSD	1425343-76	ND	34.300	35.400	mg/L	5.5	96.9	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1907						
MBAS	BXK1907-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BXK2046						
MBAS	BXK2046-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BXK2120						
Total Sulfide	BXK2120-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BXK2226						
Total Suspended Solids (Glass Fiber)	BXK2226-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BXK2227						
Total Suspended Solids (Glass Fiber)	BXK2227-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BXK2282						
Biochemical Oxygen Demand - Seeded	BXK2282-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BXK2284						
Biochemical Oxygen Demand - Seeded	BXK2284-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BXL0073						
Total Phenolics	BXL0073-BLK1	ND	ug/L	50	10	
QC Batch ID: BXL0415						
Residual Chlorine	BXL0415-BLK1	ND	mg/L	0.10	0.10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXK1907										
MBAS	BXK1907-BS1	LCS	0.19060	0.20000	mg/L	95.3		85 - 115		
QC Batch ID: BXK2046										
MBAS	BXK2046-BS1	LCS	0.19060	0.20000	mg/L	95.3		85 - 115		
QC Batch ID: BXK2120										
Total Sulfide	BXK2120-BS1	LCS	0.50890	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXK2282										
Biochemical Oxygen Demand - Seeded	BXK2282-BS1	LCS	189.40	198.00	mg/L	95.7		85 - 115		
QC Batch ID: BXK2284										
Biochemical Oxygen Demand - Seeded	BXK2284-BS1	LCS	189.40	198.00	mg/L	95.7		85 - 115		
QC Batch ID: BXL0073										
Total Phenolics	BXL0073-BS1	LCS	502.16	500.00	ug/L	100		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXK1907	Used client sample: N										
MBAS	DUP	1427744-01	ND	ND		mg/L			20		
	MS	1427744-01	ND	0.38560	0.40000	mg/L		96.4		80 - 120	
	MSD	1427744-01	ND	0.39020	0.40000	mg/L	1.2	97.6	20	80 - 120	
QC Batch ID: BXK2046	Used client sample: Y - Description: HD-2R, 11/20/2014 11:00										
MBAS	DUP	1427780-03	ND	ND		mg/L			20		
	MS	1427780-03	ND	0.40360	0.40000	mg/L		101		80 - 120	
	MSD	1427780-03	ND	0.41240	0.40000	mg/L	2.2	103	20	80 - 120	
QC Batch ID: BXK2060	Used client sample: N										
Settleable Solids	DUP	1427675-01	ND	ND		ml/L			10		
QC Batch ID: BXK2062	Used client sample: Y - Description: HD-23, 11/20/2014 11:15										
Settleable Solids	DUP	1427780-04	ND	ND		ml/L			10		
QC Batch ID: BXK2120	Used client sample: Y - Description: BYA-H10, 11/20/2014 10:26										
Total Sulfide	DUP	1427780-01	ND	ND		mg/L			10		
	MS	1427780-01	ND	0.45247	0.50000	mg/L		90.5		80 - 120	
	MSD	1427780-01	ND	0.44915	0.50000	mg/L	0.7	89.8	10	80 - 120	
QC Batch ID: BXK2226	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1427509-01	236.92	235.38		mg/L	0.7		10		
QC Batch ID: BXK2227	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1427714-01	208.00	225.33		mg/L	8.0		10		
QC Batch ID: BXK2282	Used client sample: N										
Biochemical Oxygen Demand - Seeded	DUP	1427779-02	2.1553	2.1045		mg/L	2.4		20		
QC Batch ID: BXK2284	Used client sample: Y - Description: BYA-11, 11/20/2014 13:15										
Biochemical Oxygen Demand - Seeded	DUP	1427780-10	ND	ND		mg/L			20		
QC Batch ID: BXL0024	Used client sample: Y - Description: BYA-H10, 11/20/2014 10:26										
Turbidity	DUP	1427780-01	0.14700	0.14500		NT Units	1.4		10		
QC Batch ID: BXL0073	Used client sample: Y - Description: BYA-H10, 11/20/2014 10:26										
Total Phenolics	DUP	1427780-01	ND	ND		ug/L			20		
	MS	1427780-01	ND	510.38	500.00	ug/L		102		80 - 120	
	MSD	1427780-01	ND	505.35	500.00	ug/L	1.0	101	20	80 - 120	
QC Batch ID: BXL0415	Used client sample: Y - Description: BYA-H10, 11/20/2014 10:26										
Residual Chlorine	DUP	1427780-01	ND	ND		mg/L			10		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/04/2014 10:29
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
S05	The sample holding time was exceeded.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Date of Report: 12/17/2014

Tim Nicely

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1428840
Invoice ID:	B191074

Enclosed are the results of analyses for samples received by the laboratory on 12/4/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 8

Sample Results

1428840-01 - BYA-10

EPA Method 1664 10
Water Analysis (General Chemistry) 11

1428840-02 - HD-4

EPA Method 1664 12
Water Analysis (General Chemistry) 13

1428840-03 - HD-22

EPA Method 1664 14
Water Analysis (General Chemistry) 15

1428840-04 - HD-23

EPA Method 1664 16
Water Analysis (General Chemistry) 17

1428840-05 - W-18

EPA Method 1664 18
Water Analysis (General Chemistry) 19

1428840-06 - BYA-11

EPA Method 1664 20
Water Analysis (General Chemistry) 21

1428840-07 - BYA-1

EPA Method 1664 22
Water Analysis (General Chemistry) 23

1428840-08 - BYA-14

EPA Method 1664 24
Water Analysis (General Chemistry) 25

1428840-09 - W-2

EPA Method 1664 26
Water Analysis (General Chemistry) 27

1428840-10 - W-16

EPA Method 1664 28
Water Analysis (General Chemistry) 29

Quality Control Reports

EPA Method 1664

Method Blank Analysis 30
Laboratory Control Sample 31
Precision and Accuracy 32

Water Analysis (General Chemistry)

Method Blank Analysis 33
Laboratory Control Sample 34
Precision and Accuracy 35

Notes

Notes and Definitions 36

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

14-28840

Chain of Custody

call to Curtis re chlorine

* Required Fields TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	805-289-3836	805-650-7010
		E-mail: tnicely@fugro.com; tcurtis@fugro.com	

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Project Information: Malibu-NPDES
PO #
BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: N. Simon / T. S

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Matrix Types: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code (CL Total)	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	Residual Chlorine(SM4500-CL F)	Turbidity (EPA 180.1)
1	6	12/3	1030	BYA-10	RGW	pH 6.93, 21.6°C, .62 mg/L	X	X	X	X	X	X	X	X	X
2			1050	HD-4		" 6.6, 21.8°C, 1.4 mg/L									
3			1117	HD-22		7.20, 21.2°C, .17 mg/L									
4			1155	HD-23		7.25, 21.6°C, .01 mg/L									
5			1230	W-18		7.28, 21.6°C, 0.0 mg/L									
6			1255	BYA-11		7.43, 21.1°C, 0.0 mg/L									
7			1310	BYA-1		7.41, 20.7°C, unable to obtain CL-									
8			1330	BYA-14		7.29, 21.2°C, 0.0 mg/L									
9			1350	W-2		6.78, 20.9°C, 0.0 mg/L									
10	↓	↓	1415	W-16	↓	7.16, 21.6°C, 0.0 mg/L	↓	↓	↓	↓	↓	↓	↓	↓	↓

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Print Name)	Company
T. S	Fugro	12/3	4:30	[signature]	BC Labs
[signature]	BC Labs	12/4/14	11:35	[signature]	BC
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

RoC [signature] 12/4/14 15:00 [signature] 12/4/14 1500

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1428840 Page 2 of 5

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 1 Of 4

Submission #: 14-28840

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 098 Container: PE Thermometer ID: 208

Temperature: (A) 0.8 °C / (C) 0.4 °C

Date/Time 12414 1500

Analyst Init KNB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D	D							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E	E							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F	F							
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

DISTRIBUTION / SLD-OUT / CHK BY

SHORT HOLDING TIME: Cr+6 (SS) COD, OP, NO_3 (MBAS), NO_2 (SOD), DO (Cl_2)

Comments:

Sample Numbering Completed By: KIB Date/Time: 12/4/14 1655

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1428840 Page 3 of 5

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 2 Of 4

Submission #: 14-28840

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☐ YES ☐ NO

Emissivity: 0.98 Container: PE Thermometer ID: 208 Date/Time 12/4/14 1550

Temperature: (A) 1.2 °C / (C) 0.8 °C Analyst Init LLM

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	4 x	5 x	6 x	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D	D							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E	E							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F	F							
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: KIB Date/Time: 12/4/14 1655 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1428840 Page 4 of 5

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 2 Of 4

Submission #: 14-28840

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: PE Thermometer ID: 208 Date/Time 12414 1500

Temperature: (A) 1.1 °C / (C) 0.7 °C Analyst Init MW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	7x	8x	9x	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D	D							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E	E							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F	F							
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: KTB Date/Time: 12/4/14 1655 {S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC}
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1428840 Page 5 of 5

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 4 Of 4

Submission #: 14-28840

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: PE Thermometer ID: 206

Temperature: (A) 0.6 °C / (C) 0.2 °C

Date/Time 12417 1500

Analyst Init MM

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A B C									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D									
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E									
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F									
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: KJB Date/Time: 12/4/14 1655 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1428840-01	**COC Number:**	---	**Receive Date:**	12/04/2014 15:00
	Project Number:	---	**Sampling Date:**	12/03/2014 10:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-10	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1428840-02	**COC Number:**	---	**Receive Date:**	12/04/2014 15:00
	Project Number:	---	**Sampling Date:**	12/03/2014 10:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-4	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1428840-03	**COC Number:**	---	**Receive Date:**	12/04/2014 15:00
	Project Number:	---	**Sampling Date:**	12/03/2014 11:17
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-22	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1428840-04	**COC Number:**	---	**Receive Date:**	12/04/2014 15:00
	Project Number:	---	**Sampling Date:**	12/03/2014 11:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-23	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1428840-05	**COC Number:**	---	**Receive Date:**	12/04/2014 15:00
	Project Number:	---	**Sampling Date:**	12/03/2014 12:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-18	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1428840-06	**COC Number:**	---	**Receive Date:**	12/04/2014 15:00
	Project Number:	---	**Sampling Date:**	12/03/2014 12:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-11	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1428840-07	**COC Number:**	---	**Receive Date:**	12/04/2014 15:00
	Project Number:	---	**Sampling Date:**	12/03/2014 13:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-1	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1428840-08	**COC Number:**	---	**Receive Date:**	12/04/2014 15:00
	Project Number:	---	**Sampling Date:**	12/03/2014 13:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-14	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1428840-09	**COC Number:**	---	**Receive Date:**	12/04/2014 15:00
	Project Number:	---	**Sampling Date:**	12/03/2014 13:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-2	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1428840-10	**COC Number:**	---	**Receive Date:**	12/04/2014 15:00
	Project Number:	---	**Sampling Date:**	12/03/2014 14:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-16	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1428840-01 | **Client Sample Name:** BYA-10, 12/3/2014 10:30:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	12/15/14	12/15/14 20:00	MAM	MAN-SV	1	BXL1556

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1428840-01 | **Client Sample Name:** BYA-10, 12/3/2014 10:30:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.54**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.14**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.20	0.030	EPA-425.1	ND	A01	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	12/09/14	12/09/14 10:50	VV1	MANUAL	1.087	BXL0869
2	EPA-160.5	12/05/14	12/05/14 08:00	MSA	MANUAL	1	BXL1521
3	EPA-180.1	12/05/14	12/05/14 10:00	MC1	MANUAL	1	BXL1128
4	EPA-425.1	12/05/14	12/05/14 08:00	JMN	MANUAL	2	BXL0678
5	SM-4500-CLF	12/04/14	12/04/14 20:30	MSA	MANUAL	1	BXL1533
6	EPA-420.4	12/05/14	12/05/14 11:53	TDC	KONE-1	1	BXL0566
7	SM-4500SD	12/08/14	12/08/14 12:30	DIW	SPEC05	1	BXL0703
8	SM17-5210B	12/05/14	12/05/14 08:15	FBV	YSI-57	1.525	BXL1536

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1428840-02 | **Client Sample Name:** HD-4, 12/3/2014 10:50:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	12/15/14	12/15/14 20:00	MAM	MAN-SV	1	BXL1556

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1428840-02 | **Client Sample Name:** HD-4, 12/3/2014 10:50:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.15**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	12/09/14	12/09/14 10:50	VV1	MANUAL	1.099	BXL0869
2	EPA-160.5	12/05/14	12/05/14 08:00	MSA	MANUAL	1	BXL1521
3	EPA-180.1	12/05/14	12/05/14 10:00	MC1	MANUAL	1	BXL1128
4	EPA-425.1	12/05/14	12/05/14 08:00	JMN	MANUAL	1	BXL0678
5	SM-4500-CLF	12/04/14	12/04/14 20:30	MSA	MANUAL	1	BXL1533
6	EPA-420.4	12/05/14	12/05/14 11:53	TDC	KONE-1	1	BXL0566
7	SM-4500SD	12/08/14	12/08/14 12:30	DIW	SPEC05	1	BXL0703
8	SM17-5210B	12/05/14	12/05/14 08:15	FBV	YSI-57	1.525	BXL1536

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1428840-03 | **Client Sample Name:** HD-22, 12/3/2014 11:17:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	12/15/14	12/15/14 20:00	MAM	MAN-SV	1	BXL1556

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1428840-03 | **Client Sample Name:** HD-22, 12/3/2014 11:17:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**2.7**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**6.1**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	**2.1**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	12/09/14	12/09/14 10:50	VV1	MANUAL	1.087	BXL0869
2	EPA-160.5	12/05/14	12/05/14 08:00	MSA	MANUAL	1	BXL1521
3	EPA-180.1	12/05/14	12/05/14 10:00	MC1	MANUAL	1	BXL1128
4	EPA-425.1	12/05/14	12/05/14 08:00	JMN	MANUAL	1	BXL0678
5	SM-4500-CLF	12/04/14	12/04/14 20:30	MSA	MANUAL	1	BXL1533
6	EPA-420.4	12/05/14	12/05/14 11:53	TDC	KONE-1	1	BXL0566
7	SM-4500SD	12/08/14	12/08/14 12:30	DIW	SPEC05	1	BXL0703
8	SM17-5210B	12/05/14	12/05/14 08:15	FBV	YSI-57	1.525	BXL1536

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1428840-04 | **Client Sample Name:** HD-23, 12/3/2014 11:55:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	12/15/14	12/15/14 20:00	MAM	MAN-SV	1	BXL1556

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1428840-04 | **Client Sample Name:** HD-23, 12/3/2014 11:55:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.51**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.13**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	**3.4**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	12/09/14	12/09/14 10:50	VV1	MANUAL	1.020	BXL0869
2	EPA-160.5	12/05/14	12/05/14 08:00	MSA	MANUAL	1	BXL1521
3	EPA-180.1	12/05/14	12/05/14 10:00	MC1	MANUAL	1	BXL1128
4	EPA-425.1	12/05/14	12/05/14 08:00	JMN	MANUAL	1	BXL0678
5	SM-4500-CLF	12/04/14	12/04/14 20:30	MSA	MANUAL	1	BXL1533
6	EPA-420.4	12/05/14	12/05/14 11:53	TDC	KONE-1	1	BXL0566
7	SM-4500SD	12/08/14	12/08/14 12:30	DIW	SPEC05	1	BXL0703
8	SM17-5210B	12/05/14	12/05/14 08:15	FBV	YSI-57	1.525	BXL1536

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1428840-05 | **Client Sample Name:** W-18, 12/3/2014 12:30:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	12/15/14	12/15/14 20:00	MAM	MAN-SV	1	BXL1556

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1428840-05 | **Client Sample Name:** W-18, 12/3/2014 12:30:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**2.0**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**2.7**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.018**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	**2.0**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	12/09/14	12/09/14 10:50	VV1	MANUAL	1	BXL0869
2	EPA-160.5	12/05/14	12/05/14 08:00	MSA	MANUAL	1	BXL1521
3	EPA-180.1	12/05/14	12/05/14 10:00	MC1	MANUAL	1	BXL1128
4	EPA-425.1	12/05/14	12/05/14 08:00	JMN	MANUAL	1	BXL0678
5	SM-4500-CLF	12/04/14	12/04/14 20:30	MSA	MANUAL	1	BXL1533
6	EPA-420.4	12/05/14	12/05/14 11:53	TDC	KONE-1	1	BXL0566
7	SM-4500SD	12/08/14	12/08/14 12:30	DIW	SPEC05	1	BXL0703
8	SM17-5210B	12/05/14	12/05/14 08:15	FBV	YSI-57	1.525	BXL1536

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1428840-06 | **Client Sample Name:** BYA-11, 12/3/2014 12:55:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	12/15/14	12/15/14 20:00	MAM	MAN-SV	1	BXL1556

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1428840-06 | **Client Sample Name:** BYA-11, 12/3/2014 12:55:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.27**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	**2.1**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	12/09/14	12/09/14 10:50	VV1	MANUAL	1	BXL0869
2	EPA-160.5	12/05/14	12/05/14 08:00	MSA	MANUAL	1	BXL1521
3	EPA-180.1	12/05/14	12/05/14 10:00	MC1	MANUAL	1	BXL1128
4	EPA-425.1	12/05/14	12/05/14 08:00	JMN	MANUAL	1	BXL0678
5	SM-4500-CLF	12/04/14	12/04/14 20:30	MSA	MANUAL	1	BXL1533
6	EPA-420.4	12/05/14	12/05/14 11:59	TDC	KONE-1	1	BXL0566
7	SM-4500SD	12/08/14	12/08/14 12:30	DIW	SPEC05	1	BXL0703
8	SM17-5210B	12/05/14	12/05/14 08:15	FBV	YSI-57	1.525	BXL1537

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1428840-07 | **Client Sample Name:** BYA-1, 12/3/2014 1:10:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	12/15/14	12/15/14 20:00	MAM	MAN-SV	1	BXL1556

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1428840-07 | **Client Sample Name:** BYA-1, 12/3/2014 1:10:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**110**	**mg/L**	**0.83**	**0.83**	**EPA-160.2**	ND		1
Settleable Solids	**1.5**	**ml/L**	**0.10**	**0.10**	**EPA-160.5**			2
Turbidity	**100**	**NT Units**	**0.50**	**0.50**	**EPA-180.1**		**A01**	3
MBAS	**0.018**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.50	0.25	SM-4500SD	ND	A10	7
Biochemical Oxygen Demand - Seeded	**4.1**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	12/09/14	12/09/14 10:50	VV1	MANUAL	1.667	BXL0869
2	EPA-160.5	12/05/14	12/05/14 08:00	MSA	MANUAL	1	BXL1521
3	EPA-180.1	12/05/14	12/05/14 10:00	MC1	MANUAL	5	BXL1128
4	EPA-425.1	12/05/14	12/05/14 08:00	JMN	MANUAL	1	BXL0678
5	SM-4500-CLF	12/04/14	12/04/14 20:30	MSA	MANUAL	1	BXL1533
6	EPA-420.4	12/05/14	12/05/14 11:59	TDC	KONE-1	1	BXL0566
7	SM-4500SD	12/08/14	12/08/14 12:30	DIW	SPEC05	5	BXL0703
8	SM17-5210B	12/05/14	12/05/14 08:15	FBV	YSI-57	1.525	BXL1537

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1428840-08 | **Client Sample Name:** BYA-14, 12/3/2014 1:30:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	12/15/14	12/15/14 20:00	MAM	MAN-SV	1	BXL1556

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1428840-08 | **Client Sample Name:** BYA-14, 12/3/2014 1:30:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.70**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.18**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.029**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	12/09/14	12/09/14 10:50	VV1	MANUAL	1	BXL0869
2	EPA-160.5	12/05/14	12/05/14 08:00	MSA	MANUAL	1	BXL1521
3	EPA-180.1	12/05/14	12/05/14 10:00	MC1	MANUAL	1	BXL1128
4	EPA-425.1	12/05/14	12/05/14 08:00	JMN	MANUAL	1	BXL0678
5	SM-4500-CLF	12/04/14	12/04/14 20:30	MSA	MANUAL	1	BXL1533
6	EPA-420.4	12/05/14	12/05/14 11:59	TDC	KONE-1	1	BXL0566
7	SM-4500SD	12/08/14	12/08/14 12:30	DIW	SPEC05	1	BXL0703
8	SM17-5210B	12/05/14	12/05/14 08:15	FBV	YSI-57	1.525	BXL1537

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1428840-09 | **Client Sample Name:** W-2, 12/3/2014 1:50:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	12/15/14	12/15/14 20:00	MAM	MAN-SV	1	BXL1556

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1428840-09 | **Client Sample Name:** W-2, 12/3/2014 1:50:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.2**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.21**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	**1.7**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	12/09/14	12/09/14 10:50	VV1	MANUAL	1	BXL0869
2	EPA-160.5	12/05/14	12/05/14 08:00	MSA	MANUAL	1	BXL1521
3	EPA-180.1	12/05/14	12/05/14 10:00	MC1	MANUAL	1	BXL1128
4	EPA-425.1	12/05/14	12/05/14 08:00	JMN	MANUAL	1	BXL0678
5	SM-4500-CLF	12/04/14	12/04/14 20:30	MSA	MANUAL	1	BXL1533
6	EPA-420.4	12/05/14	12/05/14 11:59	TDC	KONE-1	1	BXL0566
7	SM-4500SD	12/08/14	12/08/14 12:30	DIW	SPEC05	1	BXL0703
8	SM17-5210B	12/05/14	12/05/14 08:15	FBV	YSI-57	1.525	BXL1537

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1428840-10 | **Client Sample Name:** W-16, 12/3/2014 2:15:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	12/15/14	12/15/14 20:00	MAM	MAN-SV	1	BXL1556

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1428840-10 | **Client Sample Name:** W-16, 12/3/2014 2:15:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.20**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	**2.7**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	12/09/14	12/09/14 10:50	VV1	MANUAL	1	BXL0868
2	EPA-160.5	12/05/14	12/05/14 08:00	MSA	MANUAL	1	BXL1525
3	EPA-180.1	12/05/14	12/05/14 10:00	MC1	MANUAL	1	BXL1128
4	EPA-425.1	12/05/14	12/05/14 08:00	JMN	MANUAL	1	BXL0678
5	SM-4500-CLF	12/04/14	12/04/14 20:30	MSA	MANUAL	1	BXL1533
6	EPA-420.4	12/05/14	12/05/14 11:59	TDC	KONE-1	1	BXL0566
7	SM-4500SD	12/08/14	12/08/14 12:30	DIW	SPEC05	1	BXL0703
8	SM17-5210B	12/05/14	12/05/14 08:15	FBV	YSI-57	1.525	BXL1537

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXL1556						
Oil and Grease	BXL1556-BLK1	ND	mg/L	5.0	1.2	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXL1556										
Oil and Grease	BXL1556-BS1	LCS	32.750	39.100	mg/L	83.8		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXL1556	Used client sample: N										
Oil and Grease	DUP	1428224-33	ND	ND		mg/L			18		
	MS	1428224-33	ND	35.350	39.100	mg/L		90.4		78 - 114	
	MSD	1428224-33	ND	35.400	39.100	mg/L	0.1	90.5	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXL0566						
Total Phenolics	BXL0566-BLK1	ND	ug/L	50	10	
QC Batch ID: BXL0678						
MBAS	BXL0678-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BXL0703						
Total Sulfide	BXL0703-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BXL0868						
Total Suspended Solids (Glass Fiber)	BXL0868-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BXL0869						
Total Suspended Solids (Glass Fiber)	BXL0869-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BXL1533						
Residual Chlorine	BXL1533-BLK1	ND	mg/L	0.10	0.10	
QC Batch ID: BXL1536						
Biochemical Oxygen Demand - Seeded	BXL1536-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BXL1537						
Biochemical Oxygen Demand - Seeded	BXL1537-BLK1	ND	mg/L	1.0	1.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXL0566										
Total Phenolics	BXL0566-BS1	LCS	500.97	500.00	ug/L	100		85 - 115		
QC Batch ID: BXL0678										
MBAS	BXL0678-BS1	LCS	0.19100	0.20000	mg/L	95.5		85 - 115		
QC Batch ID: BXL0703										
Total Sulfide	BXL0703-BS1	LCS	0.52361	0.50000	mg/L	105		90 - 110		
QC Batch ID: BXL1536										
Biochemical Oxygen Demand - Seeded	BXL1536-BS1	LCS	179.95	198.00	mg/L	90.9		85 - 115		
QC Batch ID: BXL1537										
Biochemical Oxygen Demand - Seeded	BXL1537-BS1	LCS	179.95	198.00	mg/L	90.9		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXL0566	Used client sample: Y - Description: BYA-10, 12/03/2014 10:30										
Total Phenolics	DUP	1428840-01	ND	ND		ug/L			20		
	MS	1428840-01	ND	503.72	500.00	ug/L		101		80 - 120	
	MSD	1428840-01	ND	476.49	500.00	ug/L	5.6	95.3	20	80 - 120	
QC Batch ID: BXL0678	Used client sample: Y - Description: BYA-10, 12/03/2014 10:30										
MBAS	DUP	1428840-01	ND	ND		mg/L			20		
	MS	1428840-01	ND	0.40060	0.40000	mg/L		100		80 - 120	
	MSD	1428840-01	ND	0.40680	0.40000	mg/L	1.5	102	20	80 - 120	
QC Batch ID: BXL0703	Used client sample: Y - Description: BYA-10, 12/03/2014 10:30										
Total Sulfide	DUP	1428840-01	ND	ND		mg/L			10		
	MS	1428840-01	ND	0.51613	0.50000	mg/L		103		80 - 120	
	MSD	1428840-01	ND	0.51015	0.50000	mg/L	1.2	102	10	80 - 120	
QC Batch ID: BXL0868	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1428662-01	22.571	22.571		mg/L	0		10		
QC Batch ID: BXL0869	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1428979-01	154.72	148.30		mg/L	4.2		10		
QC Batch ID: BXL1128	Used client sample: Y - Description: BYA-10, 12/03/2014 10:30										
Turbidity	DUP	1428840-01	0.14500	0.14000		NT Units	3.5		10		
QC Batch ID: BXL1521	Used client sample: Y - Description: BYA-10, 12/03/2014 10:30										
Settleable Solids	DUP	1428840-01	ND	ND		ml/L			10		
QC Batch ID: BXL1525	Used client sample: Y - Description: W-16, 12/03/2014 14:15										
Settleable Solids	DUP	1428840-10	ND	ND		ml/L			10		
QC Batch ID: BXL1533	Used client sample: Y - Description: BYA-10, 12/03/2014 10:30										
Residual Chlorine	DUP	1428840-01	ND	ND		mg/L			10		
QC Batch ID: BXL1536	Used client sample: N										
Biochemical Oxygen Demand - Seeded	DUP	1428907-02	435.71	457.50		mg/L	4.9		20		
QC Batch ID: BXL1537	Used client sample: Y - Description: BYA-1, 12/03/2014 13:10										
Biochemical Oxygen Demand - Seeded	DUP	1428840-07	4.1022	4.6970		mg/L	13.5		20		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 12/17/2014 14:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A10	PQL's and MDL's were raised due to matrix interference.
S05	The sample holding time was exceeded.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Date of Report: 01/06/2015

Todd Curtis

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	BYA-1
BCL Project:	Malibu -NPDES
BCL Work Order:	1430709
Invoice ID:	B192494

Enclosed are the results of analyses for samples received by the laboratory on 12/23/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 5

Sample Results

1430709-01 - BYA-1

Water Analysis (General Chemistry) 6

Quality Control Reports

Water Analysis (General Chemistry)

Method Blank Analysis 7
Precision and Accuracy 8

Notes

Notes and Definitions 9

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody Form

BC Laboratories, Inc.

Page 1 of 1

Report To:
Client: FUGRO CONSULTANTS
Attn: TODD CURTIS
Street Address: 4820 McGRATH ST
City, State, Zip: VENTURA, CA 93004
Phone: 805-340-1025 Fax:
Email Address: tcurtis@fugro.com
Work Order #: 14.30709

Project #:
Project Name: MALIBU
NPDES
Sampler(s): TODD CURTIS

Analysis Requested

Refer to the back of this page for completion instructions and method legend.

Sample #	Description	Date Sampled	Time Sampled	T.S.S. EPA 160.2	SET. SOLIDS EPA 160.5	TURBIDITY EPA 180.1	Sample Matrix: Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other	Turnaround # of work days*
-1	BYA-1	12/22/14	12:50							X			

Comments:

Are there any tests with holding times less than or equal to 48 hours? ☒ Yes ☐ No

* Standard Turnaround = 10 work days

Notes

SHORT HOLDING TIMES
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MEAS COT

SHIP BY: DISTRIBUTION
SUB-OUT ☐

Billing
☒ Same as above
Client:
Address:
City: State Zip
Attn:
PO#:

EDF Required? Geotracker ☐ Yes ☒ No
Send Copy to State of CA? (EDT) ☐ Yes ☒ No

Global ID (Needed for EDF)

System # (Needed for EDT)

	Relinquished By	Date	Time	Received By	Date	Time
1.	Todd Curtis	12/22/14	16:30	Alan Ryan	12/23/14	14:45
2.	Alan Ryan	12/23/14	1500	[illegible]	12/23/14	1500
3.	[illegible]	12/23/14	1815	[illegible]	12/23/14	1815

BC Laboratories, Inc. – 4100 Atlas Ct. – Bakersfield, CA 93308 – 661.327.4911 – Fax: 661.327.1918 – www.bclabs.com

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1430709 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-30709

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: Amber Thermometer ID: 208 Date/Time 12/23/14

Temperature: (A) 2.1 °C / (C) 1.9 °C Analyst Init KIB BD

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
4 OZ. JAR										
2 OZ. JAR										
VOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:

Sample Numbering Completed By: Date/Time 12/23/14 1530 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/06/2015 14:32
Project: Malibu -NPDES
Project Number: BYA-1
Project Manager: Todd Curtis

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1430709-01	**COC Number:**	---	**Receive Date:**	12/23/2014 18:15
	Project Number:	---	**Sampling Date:**	12/22/2014 12:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-1	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/06/2015 14:32
Project: Malibu -NPDES
Project Number: BYA-1
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1430709-01 | **Client Sample Name:** BYA-1, 12/22/2014 12:50:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**3.5**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**13**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	12/29/14	12/29/14 13:20	VV1	MANUAL	1	BXL2593
2	EPA-160.5	12/24/14	12/24/14 07:20	RML	MANUAL	1	BXL2445
3	EPA-180.1	12/24/14	12/24/14 10:00	MC1	MANUAL	1	BXL2488

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/06/2015 14:32
Project: Malibu -NPDES
Project Number: BYA-1
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXL2593						
Total Suspended Solids (Glass Fiber)	BXL2593-BLK1	ND	mg/L	0.50	0.50	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/06/2015 14:32
Project: Malibu -NPDES
Project Number: BYA-1
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXL2445	Used client sample: Y - Description: BYA-1, 12/22/2014 12:50										
Settleable Solids	DUP	1430709-01	ND	ND		ml/L			10		
QC Batch ID: BXL2488	Used client sample: N										
Turbidity	DUP	1430683-01	0.11700	0.11500		NT Units	1.7		10		
QC Batch ID: BXL2593	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1430505-03	56.410	55.385		mg/L	1.8		10		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/06/2015 14:32
Project: Malibu -NPDES
Project Number: BYA-1
Project Manager: Todd Curtis

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

APPENDIX E-3
WATER QUALITY LABORATORY DATA
FIRST QUARTER (JANUARY-MARCH) 2015

Date of Report: 01/30/2015

Tim Nicely

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1501985
Invoice ID:	B194557

Enclosed are the results of analyses for samples received by the laboratory on 1/26/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form..... 3
Laboratory / Client Sample Cross Reference..... 5

Subcontract Reports

wo_1501985_sub_all.pdf..... 7

Notes

Notes and Definitions..... 28

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

1501985

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

TEMP: _____

* Required Fields

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	805-289-3836	805-650-7010
		E-mail: tnicely@fugro.com; tcurtis@fugro.com	

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Project Information: Malibu-NPDES
PO #
BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: N. Simon
QC Request: ☑ STD ☐ Level II
Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ☐ System No. *

Matrix Types: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Chlorinated Finished Water; FW = Finished Water; CWW = Chlorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 821-R-02-012 (acute toxicity)	Residual Chlorine (SM4500-Cl F)	Turbidity (EPA 180.1)
1	1	1/21/15	1044	HD-42	RGW		✓		
2			1055	HD-3			✓		
3			1106	HD-6			✓		
4			1115	HD-12			✓		
5			1137	BYA-4			✓		
6			1140	W-13			✓		
7	↓	↓	1154	W-17	↓		✓		

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
N. Simon	Fugro	1-21-15	16:00		BC Labs
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
	BC Labs	1-21-15 16:20	16:20		ATL
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

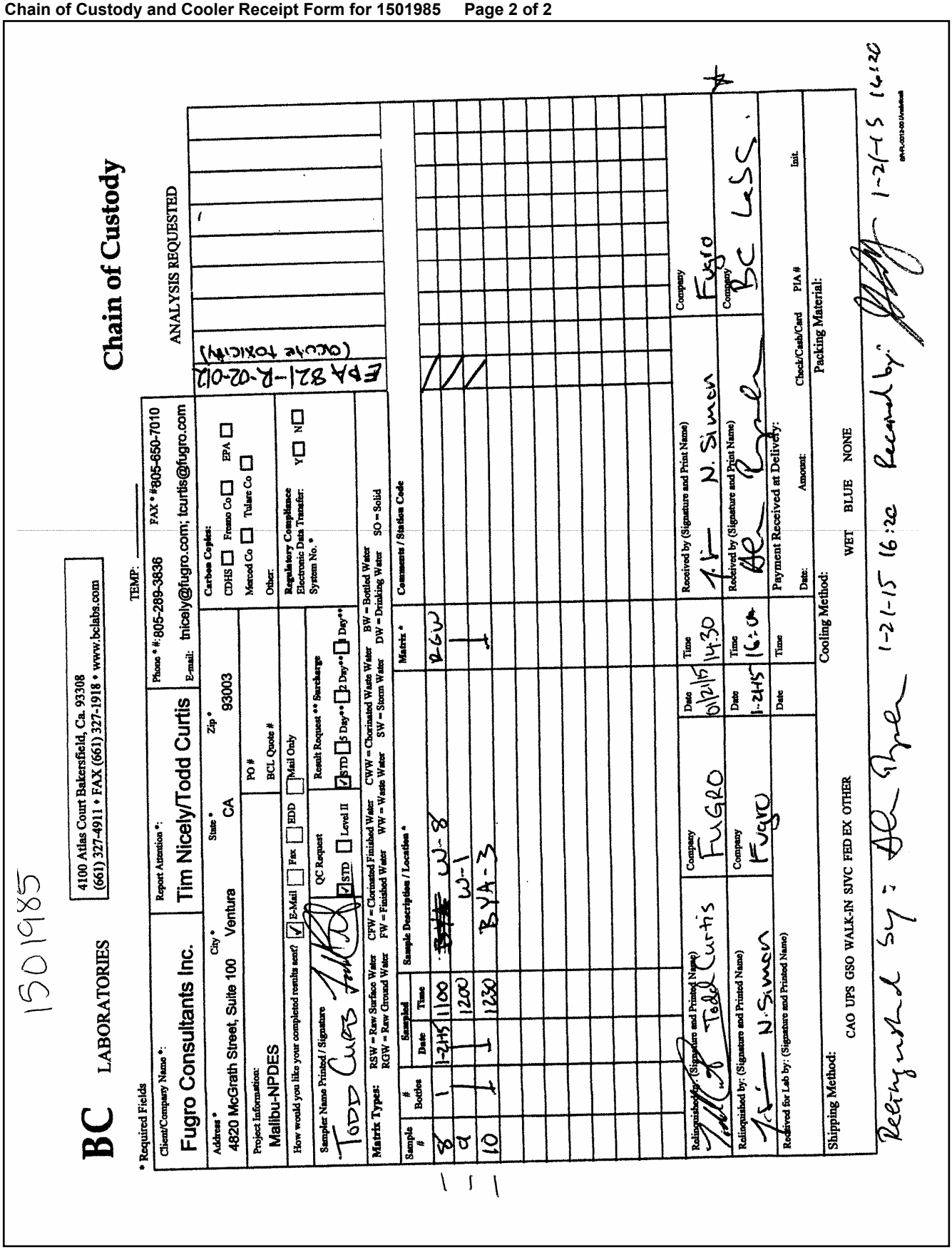
Cooling Method: WET BLUE NONE

Packing Material:

SR-PL-0013-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1501985 Page 2 of 2



BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

1501985

TEMP: _____

* Required Fields

Client/Company Name *: Fugro Consultants Inc.

Report Attention *: Tim Nicely/Todd Curtis

Phone *: 805-289-3836 FAX *: 805-650-7010

E-mail: tnicely@fugro.com; tcurtis@fugro.com

Address *: 4820 McGrath Street, Suite 100

City *: Ventura State *: CA Zip *: 93003

Project Information: Malibu-NPDES

PO #

BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: TODD CURTIS

QC Request ☐ Level II ☑ STD

Result Request ** Surcharge ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance Electronic Data Transfer System No. *: Y ☐ N ☐

Matrix Types: RSW = Raw Surface Water CFW = Chorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED: EPA 821-R-02-012 (Acute toxicity)

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code
8	1	1-21-15	1100	~~BYA~~ W-8	SW	
9	1	1	1200	W-1	1	
10	1	1	1230	BYA-3	1	

Relinquished by: (Signature and Printed Name) Todd Curtis — Company: FUGRO — Date: 01/21/15 — Time: 14:30

Received by: (Signature and Printed Name) T. Simon — Company: Fugro

Relinquished by: (Signature and Printed Name) T. Simon — Company: FUGRO — Date: 1-21-15 — Time: 16:00

Received by: (Signature and Printed Name) — Company: BC Labs

Received for Lab by: (Signature and Printed Name) — Date: — Time:

Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init:

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

Relinquished by: [signature] 1-21-15 16:20

Received by: [signature] 1-21-15 16:20

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/30/2015 9:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1501985-01	**COC Number:**	---	**Receive Date:**	01/26/2015 00:00
	Project Number:	---	**Sampling Date:**	01/21/2015 10:44
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-42	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Aqueous
1501985-02	**COC Number:**	---	**Receive Date:**	01/26/2015 00:00
	Project Number:	---	**Sampling Date:**	01/26/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-3	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Aqueous
1501985-03	**COC Number:**	---	**Receive Date:**	01/26/2015 00:00
	Project Number:	---	**Sampling Date:**	01/26/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-6	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Aqueous
1501985-04	**COC Number:**	---	**Receive Date:**	01/26/2015 00:00
	Project Number:	---	**Sampling Date:**	01/26/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-12	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Aqueous
1501985-05	**COC Number:**	---	**Receive Date:**	01/26/2015 00:00
	Project Number:	---	**Sampling Date:**	01/26/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-4	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Aqueous
1501985-06	**COC Number:**	---	**Receive Date:**	01/26/2015 00:00
	Project Number:	---	**Sampling Date:**	01/26/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-13	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Aqueous
1501985-07	**COC Number:**	---	**Receive Date:**	01/26/2015 00:00
	Project Number:	---	**Sampling Date:**	01/26/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-17	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Aqueous

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/30/2015 9:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1501985-08	**COC Number:**	---	**Receive Date:**	01/26/2015 00:00
	Project Number:	---	**Sampling Date:**	01/26/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-8	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Aqueous
1501985-09	**COC Number:**	---	**Receive Date:**	01/26/2015 00:00
	Project Number:	---	**Sampling Date:**	01/26/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-1	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Aqueous
1501985-10	**COC Number:**	---	**Receive Date:**	01/26/2015 00:00
	Project Number:	---	**Sampling Date:**	01/26/2015 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-3	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Aqueous

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

LABORATORY REPORT

Aquatic Testing Laboratories
"dedicated to providing quality aquatic toxicity testing"
4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA ELAP Cert. No.: 1775

Date: January 27, 2015

Client: BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
Attn: Christina Herndon

Laboratory No.: A-15012104-001/010
Sample I.D.: 1501985-01/10

Sample Control: The sample was received by ATL within the recommended hold time, in a chilled state and with the chain of custody record attached.

Date Sampled:	01/21/15
Date Received:	01/21/15
Temp. Received:	1.0°C, 0.8 °C
Chlorine (TRC):	0.0 mg/l
Date Tested:	01/22/15 to 01/26/15

Sample Analysis: The following analyses were performed on your sample:

Fathead Minnow 96hr Percent Survival Bioassay (EPA-821-R-02-012).

Attached are the test data generated from the analysis of your sample. All testing was conducted under the direct supervision of Joseph A. LeMay. Daily test readings were taken by Joseph A. LeMay (initials: JAL) and Jacob LeMay (initials: J).

Result Summary:

Sample ID.	Results
1501985-01	100% Survival (TUa = 0.0)
1501985-02	97.5% Survival (TUa = 0.23)
1501985-03	100% Survival (TUa = 0.0)
1501985-04	100% Survival (TUa = 0.0)
1501985-05	100% Survival (TUa = 0.0)
1501985-06	100% Survival (TUa = 0.0)
1501985-07	100% Survival (TUa = 0.0)
1501985-08	100% Survival (TUa = 0.0)
1501985-09	100% Survival (TUa = 0.0)
1501985-10	100% Survival (TUa = 0.0)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of the Laboratory's name for advertising or publicity purpose without authorization is prohibited.

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-15012104-001
Client/ID: BC Labs HD-42
Start Date: 01/22/2015

TEST SUMMARY

Species: *Pimephales promelas*.
Age: 9 (1-14) days.
Regulations: NPDES.
Test solution volume: 250 ml.
Feeding: prior to renewal at 48 hrs.
Number of replicates: 4.
Control water: Moderately hard reconstituted water.
Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: Percent Survival at 96 hrs.
Test chamber: 600 ml beakers.
Temperature: 20 +/- 1°C.
Number of fish per chamber: 10.
QA/QC No.: RT-150106.

TEST DATA

		°C	DO	pH	# Dead A	# Dead B	# Dead C	# Dead D	Analyst & Time of Readings
INITIAL	Control	20.3	7.8	8.0	0	0	0	0	I
	100%	20.5	6.9	7.5	0	0	0	0	14w 1-22-15
24 Hr	Control	20.2	7.8	8.3	0	0	0	0	I
	100%	20.1	8.5	8.0	0	0	0	0	14w 1-23-15
48 Hr	Control	20.1	7.5	7.8	0	0	0	0	I
	100%	20.0	8.2	7.9	0	0	0	0	14w 1-24-15
Renewal	Control	20.2	7.9	7.9	0	0	0	0	I
	100%	20.1	8.5	8.0	0	0	0	0	14w 1-24-15
72 Hr	Control	20.0	7.1	8.0	0	0	0	0	I
	100%	19.9	7.8	7.8	0	0	0	0	14w 1-25-15
96 Hr	Control	20.2	7.7	8.0	0	0	0	0	
	100%	20.3	7.8	8.2	0	0	0	0	1345 1-26-15

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.5; Conductivity: 3361 umho; Temp: 1.0°C;
DO: 6.9 mg/l; Alkalinity: 473 mg/l; Hardness: 1059 mg/l; NH_3-N: 0.6 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No.)
Control: Alkalinity: 56 mg/l; Hardness: 92 mg/l; Conductivity: 340 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No.)
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
Dissolved Oxygen (DO) readings in mg/l O_2.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 100 %

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-15012104-002
Client/ID: BC Labs HD-30 **Start Date: 01/22/2015**

TEST SUMMARY

Species: *Pimephales promelas*.
Age: 9 (1-14) days.
Regulations: NPDES.
Test solution volume: 250 ml.
Feeding: prior to renewal at 48 hrs.
Number of replicates: 4.
Control water: Moderately hard reconstituted water.
Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: Percent Survival at 96 hrs.
Test chamber: 600 ml beakers.
Temperature: 20 +/- 1°C.
Number of fish per chamber: 10.
QA/QC No.: RT-150106.

TEST DATA

		°C	DO	pH	# Dead A	# Dead B	# Dead C	# Dead D	Analyst & Time of Readings
INITIAL	Control	20.3	7.8	8.0	0	0	0	0	J
	100%	20.5	8.7	7.7	0	0	0	0	1400 1-22-15
24 Hr	Control	20.2	7.8	8.3	0	0	0	0	J
	100%	20.0	8.3	8.4	0	0	0	0	1400 1-23-15
48 Hr	Control	20.1	7.5	7.8	0	0	0	0	J
	100%	20.0	7.8	8.2	0	0	0	0	1400 1-24-15
Renewal	Control	20.2	7.9	7.9	0	0	0	0	J
	100%	20.1	8.1	8.1	0	0	0	0	1400 1-24-15
72 Hr	Control	20.0	7.1	8.0	0	0	0	0	J
	100%	20.2	7.4	8.2	0	0	0	0	1400 1-25-15
96 Hr	Control	20.2	7.7	8.0	0	0	0	0	JL
	100%	20.3	7.8	8.3	0	0	1	0	1345 1-26-15

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.7 ; Conductivity: 2362 umho; Temp: 1.0°C;
DO: 8.7 mg/l; Alkalinity: 427 mg/l; Hardness: 874 mg/l; NH_3-N: 0.25 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No)
Control: Alkalinity: 56 mg/l; Hardness: 92 mg/l; Conductivity: 340 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No)
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
Dissolved Oxygen (DO) readings in mg/l O_2.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 97.5 %

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-15012104-003
Client/ID: BC Labs HD-6

Start Date: 01/22/2015

TEST SUMMARY

Species: *Pimephales promelas*.
Age: 9 (1-14) days.
Regulations: NPDES.
Test solution volume: 250 ml.
Feeding: prior to renewal at 48 hrs.
Number of replicates: 4.
Control water: Moderately hard reconstituted water.
Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: Percent Survival at 96 hrs.
Test chamber: 600 ml beakers.
Temperature: 20 +/- 1°C.
Number of fish per chamber: 10.
QA/QC No.: RT-150106.

TEST DATA

		°C	DO	pH	# Dead A	# Dead B	# Dead C	# Dead D	Analyst & Time of Readings
INITIAL	Control	20.3	7.8	8.0	0	0	0	0	JF
	100%	20.5	7.7	7.6	0	0	0	0	14:00 1-22-15
24 Hr	Control	20.2	7.8	8.3	0	0	0	0	JF
	100%	20.0	8.1	8.2	0	0	0	0	14:00 1-23-15
48 Hr	Control	20.1	7.5	7.8	0	0	0	0	JF
	100%	20.0	8.2	8.1	0	0	0	0	14:00 1-24-15
Renewal	Control	20.2	7.9	7.9	0	0	0	0	JF
	100%	8.1	8.1	8.0	0	0	0	0	14:00 1-24-15
72 Hr	Control	20.0	7.1	8.0	0	0	0	0	JF
	100%	19.9	7.8	8.2	0	0	0	0	14:00 1-25-15
96 Hr	Control	20.2	7.7	8.0	0	0	0	0	JF
	100%	20.3	7.8	8.4	0	0	0	0	13:45 1-26-15

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.6; Conductivity: 3493 umho; Temp: 1.0°C;
DO: 7.7 mg/l; Alkalinity: 309 mg/l; Hardness: 1157 mg/l; NH_3-N: 0.6 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No)
Control: Alkalinity: 56 mg/l; Hardness: 92 mg/l; Conductivity: 340 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No)
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
Dissolved Oxygen (DO) readings in mg/l O_2.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 100 %

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-15012104-004
Client/ID: BC Labs HD-12

Start Date: 01/22/2015

TEST SUMMARY

Species: *Pimephales promelas*.
Age: 9 (1-14) days.
Regulations: NPDES.
Test solution volume: 250 ml.
Feeding: prior to renewal at 48 hrs.
Number of replicates: 4.
Control water: Moderately hard reconstituted water.
Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: Percent Survival at 96 hrs.
Test chamber: 600 ml beakers.
Temperature: 20 +/- 1°C.
Number of fish per chamber: 10.
QA/QC No.: RT-150106.

TEST DATA

		°C	DO	pH	# Dead A	# Dead B	# Dead C	# Dead D	Analyst & Time of Readings
INITIAL	Control	20.3	7.8	8.0	0	0	0	0	2
	100%	20.3	6.7	7.6	0	0	0	0	14w 1-22-15
24 Hr	Control	20.2	7.8	8.3	0	0	0	0	2
	100%	20.0	8.2	8.3	0	0	0	0	14w 1-23-15
48 Hr	Control	20.1	7.5	7.8	0	0	0	0	2
	100%	20.0	8.1	8.3	0	0	0	0	14w 1-24-15
Renewal	Control	20.2	7.9	7.9	0	0	0	0	2
	100%	20.0	8.0	8.0	0	0	0	0	14w 1-24-15
72 Hr	Control	20.0	7.1	8.0	0	0	0	0	2
	100%	20.0	7.8	8.2	0	0	0	0	14w 1-25-15
96 Hr	Control	20.2	7.7	8.0	0	0	0	0	2
	100%	20.4	8.1	8.4	0	0	0	0	1345 1-26-15

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.6 ; Conductivity: 3087 umho; Temp: 1.0°C;
DO: 6.7 mg/l; Alkalinity: 287 mg/l; Hardness: 173 mg/l; NH_3-N: 0.5 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No)
Control: Alkalinity: 56 mg/l; Hardness: 92 mg/l; Conductivity: 340 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No)
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
Dissolved Oxygen (DO) readings in mg/l O_2.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 100 %

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-15012104-005
Client/ID: BC Labs BYA-4

Start Date: 01/22/2015

TEST SUMMARY

Species: *Pimephales promelas*.
Age: 9 (1-14) days.
Regulations: NPDES.
Test solution volume: 250 ml.
Feeding: prior to renewal at 48 hrs.
Number of replicates: 4.
Control water: Moderately hard reconstituted water.
Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: Percent Survival at 96 hrs.
Test chamber: 600 ml beakers.
Temperature: 20 +/- 1°C.
Number of fish per chamber: 10.
QA/QC No.: RT-150106.

TEST DATA

		°C	DO	pH	# Dead A	# Dead B	# Dead C	# Dead D	Analyst & Time of Readings
INITIAL	Control	20.3	7.8	8.0	0	0	0	0	Z
	100%	20.3	6.7	7.6	0	0	0	0	14w 1-22-15
24 Hr	Control	20.2	7.8	8.3	0	0	0	0	Z
	100%	20.0	8.3	8.2	0	0	0	0	14w 1-23-15
48 Hr	Control	20.1	7.5	7.8	0	0	0	0	Z
	100%	20.1	8.2	8.5	0	0	0	0	14w 1-24-15
Renewal	Control	20.2	7.9	7.9	0	0	0	0	Z
	100%	20.0	6.1	8.1	0	0	0	0	14w 1-24-15
72 Hr	Control	20.0	7.1	8.0	0	0	0	0	Z
	100%	20.0	7.5	8.4	0	0	0	0	14w 1-25-15
96 Hr	Control	20.2	7.7	8.0	0	0	0	0	
	100%	20.4	7.7	8.4	0	0	0	0	1345 1-26-15

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.6; Conductivity: 2391 umho; Temp: 0.8°C;
DO: 6.7 mg/l; Alkalinity: 245 mg/l; Hardness: 948 mg/l; NH_3-N: 0.5 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / No.
Control: Alkalinity: 56 mg/l; Hardness: 92 mg/l; Conductivity: 340 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / No.
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
Dissolved Oxygen (DO) readings in mg/l O_2.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 100 %

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-15012104-006
Client/ID: BC Labs W-13

Start Date: 01/22/2015

TEST SUMMARY

Species: *Pimephales promelas*.
Age: 9 (1-14) days.
Regulations: NPDES.
Test solution volume: 250 ml.
Feeding: prior to renewal at 48 hrs.
Number of replicates: 4.
Control water: Moderately hard reconstituted water.
Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: Percent Survival at 96 hrs.
Test chamber: 600 ml beakers.
Temperature: 20 +/- 1°C.
Number of fish per chamber: 10.
QA/QC No.: RT-150106.

TEST DATA

		°C	DO	pH	# Dead A	# Dead B	# Dead C	# Dead D	Analyst & Time of Readings
INITIAL	Control	20.3	7.8	8.0	0	0	0	0	2
	100%	20.3	7.6	7.4	0	0	0	0	14w 1-22-15
24 Hr	Control	20.2	7.8	8.3	0	0	0	0	2
	100%	20.0	8.2	8.1	0	0	0	0	14w 1-23-15
48 Hr	Control	20.1	7.5	7.8	0	0	0	0	2
	100%	20.1	8.1	8.3	0	0	0	0	14w 1-24-15
Renewal	Control	20.2	7.9	7.9	0	0	0	0	2
	100%	20.0	8.0	7.9	0	0	0	0	14w 1-24-15
72 Hr	Control	20.0	7.1	8.0	0	0	0	0	2
	100%	20.0	7.5	8.2	0	0	0	0	14w 1-25-15
96 Hr	Control	20.2	7.7	8.0	0	0	0	0	2
	100%	20.4	7.8	8.3	0	0	0	0	1345 1-26-15

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.4; Conductivity: 2300 umho; Temp: 0.8°C;
DO: 7.6 mg/l; Alkalinity: 320 mg/l; Hardness: 991 mg/l; NH_3-N: 0.5 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No.)
Control: Alkalinity: 56 mg/l; Hardness: 92 mg/l; Conductivity: 341 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No.)
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
Dissolved Oxygen (DO) readings in mg/l O_2.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 100 %

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-15012104-007
Client/ID: BC Labs W-17

Start Date: 01/22/2015

TEST SUMMARY

Species: *Pimephales promelas*.
Age: 9 (1-14) days.
Regulations: NPDES.
Test solution volume: 250 ml.
Feeding: prior to renewal at 48 hrs.
Number of replicates: 4.
Control water: Moderately hard reconstituted water.
Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: Percent Survival at 96 hrs.
Test chamber: 600 ml beakers.
Temperature: 20 +/- 1°C.
Number of fish per chamber: 10.
QA/QC No.: RT-150106.

TEST DATA

		°C	DO	pH	# Dead A	# Dead B	# Dead C	# Dead D	Analyst & Time of Readings
INITIAL	Control	20.3	7.8	8.0	0	0	0	0	Z
	100%	20.2	7.4	7.6	0	0	0	0	14w 1-22 15
24 Hr	Control	20.2	7.8	8.3	0	0	0	0	Z
	100%	20.2	8.2	8.2	0	0	0	0	14w 1-23-15
48 Hr	Control	20.1	7.5	7.8	0	0	0	0	Z
	100%	20.1	8.1	8.4	0	0	0	0	14w 1-24-15
Renewal	Control	20.2	7.9	7.9	0	0	0	0	Z
	100%	20.1	8.1	8.2	0	0	0	0	14w 1-24-15
72 Hr	Control	20.0	7.1	8.0	0	0	0	0	Z
	100%	19.9	7.5	8.4	0	0	0	0	14w 1-25-15
96 Hr	Control	20.2	7.7	8.0	0	0	0	0	JM
	100%	20.4	7.8	8.5	0	0	0	0	1345 1-26-15

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.6 ; Conductivity: 1682 umho; Temp: 0.8°C;
DO: 7.4 mg/l; Alkalinity: 212 mg/l; Hardness: 562 mg/l; NH_3-N: 0.5 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No)
Control: Alkalinity: 56 mg/l; Hardness: 92 mg/l; Conductivity: 340 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No)
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
Dissolved Oxygen (DO) readings in mg/l O_2.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 100 %

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-15012104-008
Client/ID: BC Labs W-8

Start Date: 01/22/2015

TEST SUMMARY

Species: *Pimephales promelas*.
Age: 9 (1-14) days.
Regulations: NPDES.
Test solution volume: 250 ml.
Feeding: prior to renewal at 48 hrs.
Number of replicates: 4.
Control water: Moderately hard reconstituted water.
Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: Percent Survival at 96 hrs.
Test chamber: 600 ml beakers.
Temperature: 20 +/- 1°C.
Number of fish per chamber: 10.
QA/QC No.: RT-150106.

TEST DATA

		°C	DO	pH	# Dead A	# Dead B	# Dead C	# Dead D	Analyst & Time of Readings
INITIAL	Control	20.3	7.8	8.0	0	0	0	0	J
	100%	20.3	7.4	7.4	0	0	0	0	14w 1-22-15
24 Hr	Control	20.2	7.8	8.3	0	0	0	0	J
	100%	20.0	8.2	8.2	0	0	0	0	14w 1-23-15
48 Hr	Control	20.1	7.5	7.8	0	0	0	0	J
	100%	19.9	8.0	8.4	0	0	0	0	14w 1-24-15
Renewal	Control	20.2	7.9	7.9	0	0	0	0	J
	100%	20.0	8.1	8.2	0	0	0	0	14w 1-24-15
72 Hr	Control	20.0	7.1	8.0	0	0	0	0	J
	100%	20.1	7.9	8.3	0	0	0	0	14w 1-25-15
96 Hr	Control	20.2	7.7	8.0	0	0	0	0	J
	100%	20.3	7.7	8.4	0	0	0	0	1345 1-26-15

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.4; Conductivity: 2291 umho; Temp: 0.8°C;
DO: 7.4 mg/l; Alkalinity: 410 mg/l; Hardness: 827 mg/l; NH_3-N: 0.25 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No)
Control: Alkalinity: 56 mg/l; Hardness: 92 mg/l; Conductivity: 340 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No)
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
Dissolved Oxygen (DO) readings in mg/l O_2.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 100 %

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-15012104-009
Client/ID: BC Labs W-1

Start Date: 01/22/2015

TEST SUMMARY

Species: *Pimephales promelas*.
Age: 9 (1-14) days.
Regulations: NPDES.
Test solution volume: 250 ml.
Feeding: prior to renewal at 48 hrs.
Number of replicates: 4.
Control water: Moderately hard reconstituted water.
Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: Percent Survival at 96 hrs.
Test chamber: 600 ml beakers.
Temperature: 20 +/- 1°C.
Number of fish per chamber: 10.
QA/QC No.: RT-150106.

TEST DATA

		°C	DO	pH	# Dead A	# Dead B	# Dead C	# Dead D	Analyst & Time of Readings
INITIAL	Control	20.3	7.8	8.0	0	0	0	0	I
	100%	20.3	7.4	7.4	0	0	0	0	14w 1-22-15
24 Hr	Control	20.2	7.8	8.3	0	0	0	0	I
	100%	20.0	8.2	8.2	0	0	0	0	14w 1-23-15
48 Hr	Control	20.1	7.5	7.8	0	0	0	0	I
	100%	19.9	8.2	8.3	0	0	0	0	14w 1-24-15
Renewal	Control	20.2	7.9	7.9	0	0	0	0	I
	100%	20.0	8.0	8.1	0	0	0	0	14w 1-24-15
72 Hr	Control	20.0	7.1	8.0	0	0	0	0	I
	100%	20.0	7.0	8.2	0	0	0	0	14w 1-25-15
96 Hr	Control	20.2	7.7	8.0	0	0	0	0	I
	100%	20.3	8.0	8.1	0	0	0	0	1345 1-26-15

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.4 ; Conductivity: 2321 umho; Temp: 0.8°C;
DO: 7.4 mg/l; Alkalinity: 380 mg/l; Hardness: 810 mg/l; NH_3-N: 0.5 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No.)
Control: Alkalinity: 56 mg/l; Hardness: 92 mg/l; Conductivity: 340 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No.)
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
Dissolved Oxygen (DO) readings in mg/l O_2.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 100 %

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

FATHEAD MINNOW PERCENT SURVIVAL TEST
EPA Method 2000.0

Aquatic Testing Laboratories

Lab No.: A-15012104-010
Client/ID: BC Labs BYA-3

Start Date: 01/22/2015

TEST SUMMARY

Species: *Pimephales promelas*.
Age: 9 (1-14) days.
Regulations: NPDES.
Test solution volume: 250 ml.
Feeding: prior to renewal at 48 hrs.
Number of replicates: 4.
Control water: Moderately hard reconstituted water.
Photoperiod: 16/8 hrs light/dark.

Source: In-laboratory Culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: Percent Survival at 96 hrs.
Test chamber: 600 ml beakers.
Temperature: 20 +/- 1°C.
Number of fish per chamber: 10.
QA/QC No.: RT-150106.

TEST DATA

		°C	DO	pH	# Dead A	# Dead B	# Dead C	# Dead D	Analyst & Time of Readings
INITIAL	Control	20.3	7.8	8.0	0	0	0	0	JJ
	100%	20.4	7.3	7.6	0	0	0	0	14w 1-22-15
24 Hr	Control	20.2	7.8	8.3	0	0	0	0	JJ
	100%	20.2	8.1	8.1	0	0	0	0	14w 1-23-15
48 Hr	Control	20.1	7.5	7.8	0	0	0	0	JJ
	100%	19.9	8.4	8.2	0	0	0	0	14w 1-24-15
Renewal	Control	20.2	7.9	7.9	0	0	0	0	JJ
	100%	20.0	8.0	8.1	0	0	0	0	14w 1-24-15
72 Hr	Control	20.0	7.1	8.0	0	0	0	0	JJ
	100%	20.0	7.7	8.3	0	0	0	0	14w 1-25-15
96 Hr	Control	20.2	7.7	8.0	0	0	0	0	JJ
	100%	20.3	8.0	8.4	0	0	0	0	13HS 1-26-15

Comments:
Sample as received: Chlorine: 0.0 mg/l; pH: 7.6; Conductivity: 2591 umho; Temp: 0.8°C;
DO: 7.3 mg/l; Alkalinity: 239 mg/l; Hardness: 798 mg/l; NH_3-N: 0.5 mg/l.
Sample aerated moderately (approx. 500 ml/min) to raise or lower DO? Yes / (No.)
Control: Alkalinity: 56 mg/l; Hardness: 92 mg/l; Conductivity: 340 umho.
Test solution aerated (not to exceed 100 bubbles/min) to maintain DO >4.0 mg/l? Yes / (No.)
Sample used for renewal is the original sample kept at 0-6°C with minimal headspace.
Dissolved Oxygen (DO) readings in mg/l O_2.

RESULTS

Percent Survival In: Control: 100 % 100% Sample: 100 %

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

* Required Fields

TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #: / FAX * #	E-mail:
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	805-289-3836 / 805-650-7010	tnicely@fugro.com; tcurtis@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: Malibu-NPDES | PO # | BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: N. Simon

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 821-R-02-012 (acute toxicity)	Residual Chlorine(SM4500-CL F)	Turbidity (EPA 180.1)
1	1	1/21/15	1044	HD-42	RGW	1.0	/		
2			0955	HD-30		1.0	/		
3			1106	HD-6		1.0	/		
4			1115	HD-12		1.0	/		
5			1137	BVA-4		0.8	/		
6			1140	W-13		0.8	/		
7			1154	W-17		0.8	/		

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
N. Simon	Fugro	1-21-15	16:00		BC Labs
	BC Labs	1-21-15	16:20		ATL

Received for Lab by: (Signature and Printed Name) | Date | Time

Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: (WET) BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

* Required Fields

TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	805-289-3836	805-650-7010

E-mail: tnicely@fugro.com; tcurtis@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Project Information: Malibu-NPDES

PO # / BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: Todd Curtis

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Matrix Types: RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

EPA 821-R-02-012 (acute toxicity)

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code
8	1	1-21-15	1100	~~BYA~~ W-8	RGW	0.8°
9	1	1	1200	W-1	1	0.8°
10	1	1	1230	BYA-3	1	0.8°

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Print Name)	Company
Todd Curtis	FUGRO	01/21/15	14:30	N. Simon	Fugro
N. Simon	Fugro	1-21-15	16:00		BC Labs.
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: (WET) BLUE NONE

Packing Material:

Relinquished by: 1-21-15 16:20 Received by: 1-21-15 16:20

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

SUBCONTRACT ORDER

BC Laboratories

1501985

SENDING LABORATORY:

BC Laboratories
4100 Atlas Ct
Bakersfield, CA 93308
Phone: 661-327-4911
Fax: 661-327-1918
Project Manager: Christina Herndon

RECEIVING LABORATORY:

Aquatic Testing Laboratory $AQTCT
4350 Transport St. #107
Ventura, CA 93003
Phone :(805) 650-0546
Fax: (805) 650-0756

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 1501985-01	**Water**	**Sampled: 01/21/15 10:44**		
oiw Fish Tox AQTCT	02/04/15 17:00	01/22/15 22:44		
Containers Supplied:				
Sample ID: 1501985-02	**Water**	**Sampled: 01/21/15 ~~00:00~~ 10:55**		
oiw Fish Tox AQTCT	02/04/15 17:00	01/27/15 12:00		
Containers Supplied:				
Sample ID: 1501985-03	**Water**	**Sampled: 01/21/15 ~~00:00~~ 11:06**		
oiw Fish Tox AQTCT	02/04/15 17:00	01/27/15 12:00		
Containers Supplied:				
Sample ID: 1501985-04	**Water**	**Sampled: 01/21/15 ~~00:00~~ 11:15**		
oiw Fish Tox AQTCT	02/04/15 17:00	01/27/15 12:00		
Containers Supplied:				
Sample ID: 1501985-05	**Water**	**Sampled: 01/21/15 ~~00:00~~ 11:37**		
oiw Fish Tox AQTCT	02/04/15 17:00	01/27/15 12:00		
Containers Supplied:				
Sample ID: 1501985-06	**Water**	**Sampled: 01/21/15 ~~00:00~~ 11:40**		
oiw Fish Tox AQTCT	02/04/15 17:00	01/27/15 12:00		
Containers Supplied:				

— See attached —

Released By	Date	Received By	Date
			1-21-15 (16:20)
Released By	Date	Received By	Date

Page 1 of 2

SUBCONTRACT ORDER

BC Laboratories

1501985

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 1501985-07	**Water**	**Sampled: 01/~~26~~21/15 ~~00:00~~ 1054**		
oiw Fish Tox AQTCT	02/04/15 17:00	01/27/15 12:00		
Containers Supplied:				
Sample ID: 1501985-08	**Water**	**Sampled: 01/~~26~~21/15 ~~00:00~~ 1100**		
oiw Fish Tox AQTCT	02/04/15 17:00	01/27/15 12:00		
Containers Supplied:				
Sample ID: 1501985-09	**Water**	**Sampled: 01/~~26~~21/15 ~~00:00~~ 1200**		
oiw Fish Tox AQTCT	02/04/15 17:00	01/27/15 12:00		
Containers Supplied:				
Sample ID: 1501985-10	**Water**	**Sampled: 01/~~26~~21/15 ~~00:00~~ 1230**		
oiw Fish Tox AQTCT	02/04/15 17:00	01/27/15 12:00		
Containers Supplied:				

Released By	Date	Received By	Date
— see attached —			1-21-15 16:20
Released By	Date	Received By	Date

Page 2 of 2

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Aquatic Testing Laboratories

REFERENCE TOXICANT DATA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

FATHEAD MINNOW ACUTE
Reference Toxicant - SDS

Aquatic Testing Laboratories

QA/QC Batch No.: RT-150106

TEST SUMMARY

Species: *Pimephales promelas.*
Age: 12 days old.
Regulations: NPDES.
Test chamber volume: 250 ml.
Feeding: Prior to renewal at 48 hrs.
Temperature: 20 +/- 1°C.
Number of replicates: 2.
Dilution water: MHSF.

Source: In-lab culture.
Test type: Static-Renewal.
Test Protocol: EPA-821-R-02-012.
Endpoints: LC50 at 96 hrs.
Test chamber: 600 ml beakers.
Aeration: None.
Number of organisms per chamber: 10.
Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL			24 Hr					48 Hr				
Date/Time:	1-6-15 1330			1-7-15 1330					1-8-15 1330				
Analyst:	2			2					2				
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	20.7	8.7	8.2	20.7	7.9	8.2	0	0	20.7	7.1	8.0	0	0
1.0 mg/l	20.7	8.6	8.2	20.6	8.0	8.2	0	0	20.5	7.4	8.0	0	0
2.0 mg/l	20.6	8.6	8.2	20.6	7.7	8.1	0	0	20.5	7.5	8.1	0	0
4.0 mg/l	20.7	8.9	8.1	20.7	7.6	8.1	0	0	20.5	7.5	8.1	0	0
8.0 mg/l	20.8	8.9	8.2	20.7	7.8	8.1	10	10	-	-	-	-	-
16.0 mg/l	20.7	8.9	8.2	20.7	7.9	8.1	10	10	-	-	-	-	-

	RENEWAL			72 Hr					96 Hr				
Date/Time:	1-8-15 1330			1-9-15 1300					1-10-15 1300				
Analyst:	2			2					2				
	°C	DO	pH	°C	DO	pH	# Dead A	# Dead B	°C	DO	pH	# Dead A	# Dead B
Control	20.6	8.1	8.1	20.7	7.5	7.9	0	0	20.1	7.1	7.9	0	0
1.0 mg/l	20.5	8.0	8.1	20.5	6.9	7.9	0	0	20.2	7.6	7.8	0	0
2.0 mg/l	20.6	8.0	8.1	20.2	7.5	7.8	0	0	20.2	7.2	7.8	0	0
4.0 mg/l	20.6	8.4	8.1	20.2	7.4	7.8	0	0	20.1	7.3	7.8	0	0
8.0 mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-
16.0 mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-

Comments: Control: Alkalinity: 56 mg/l; Hardness: 92 mg/l; Conductivity: 326 umho.
SDS: Alkalinity: 56 mg/l; Hardness: 91 mg/l; Conductivity: 327 umho.

Concentration-response relationship acceptable? (see attached computer analysis):
(Yes (response curve normal)
No (dose interrupted indicated or non-normal)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Acute Fish Test-96 Hr Survival

Start Date:	1/6/2015 13:30	Test ID:	RT150106	Sample ID:	REF-Ref Toxicant
End Date:	1/10/2015 13:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	SDS-Sodium dodecyl sulfate
Sample Date:	1/6/2015	Protocol:	EPAAW02-EPA/821/R-02-01	Test Species:	PP-Pimephales promelas
Comments:					

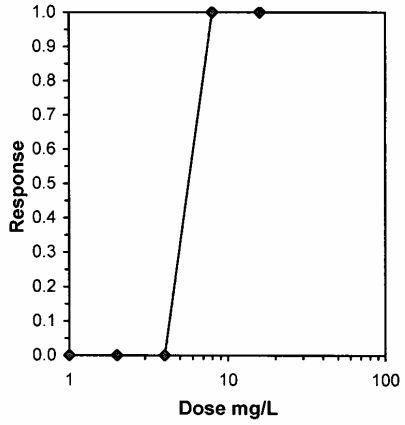
Conc-mg/L	1	2
D-Control	1.0000	1.0000
1	1.0000	1.0000
2	1.0000	1.0000
4	1.0000	1.0000
8	0.0000	0.0000
16	0.0000	0.0000

			Transform: Arcsin Square Root					Number	Total
Conc-mg/L	Mean	N-Mean	Mean	Min	Max	CV%	N	Resp	Number
D-Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
1	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
2	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
4	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	2	0	20
8	0.0000	0.0000	0.1588	0.1588	0.1588	0.000	2	20	20
16	0.0000	0.0000	0.1588	0.1588	0.1588	0.000	2	20	20

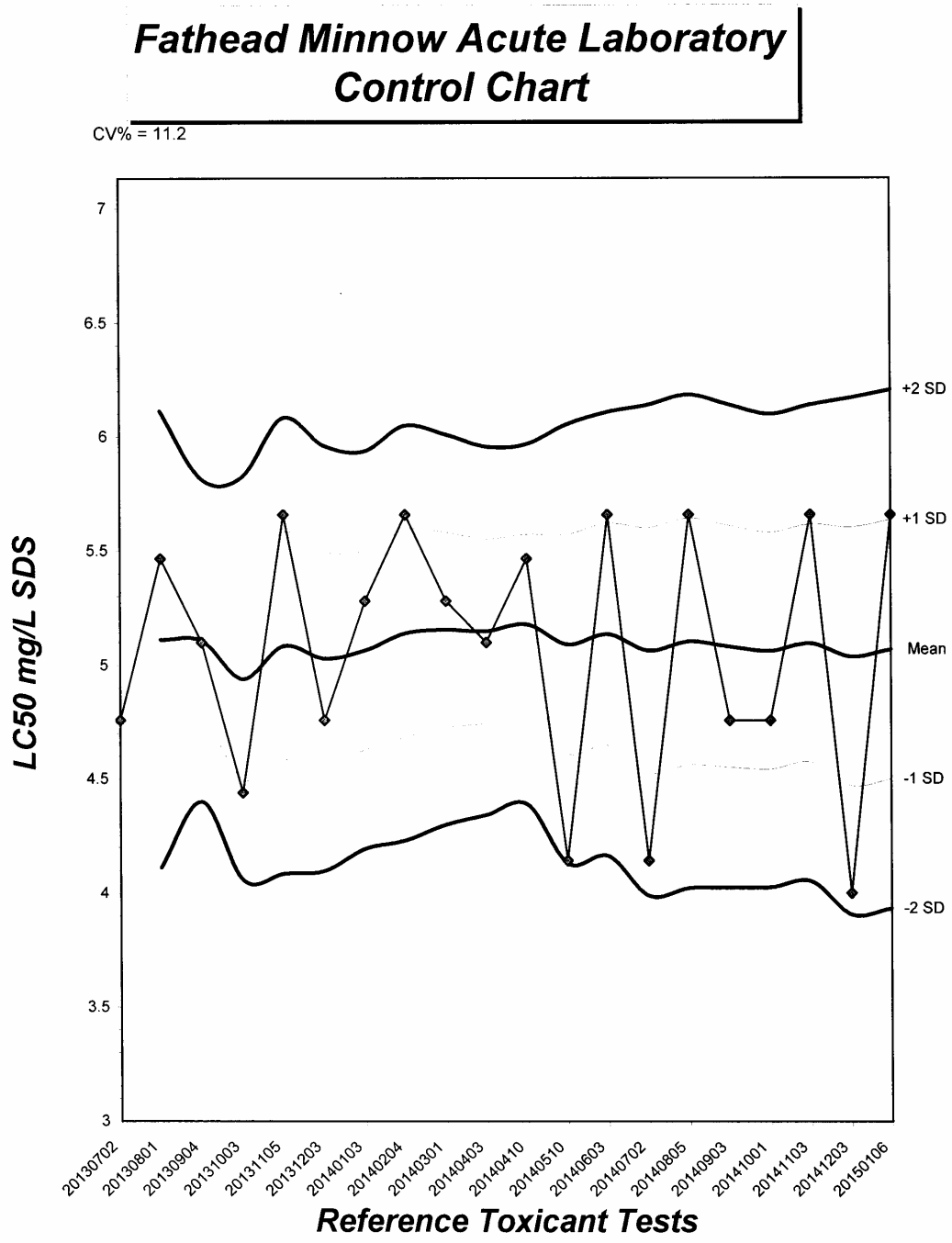
Auxiliary Tests	Statistic	Critical	Skew	Kurt
Normality of the data set cannot be confirmed				
Equality of variance cannot be confirmed				

Graphical Method

Trim Level	EC50
0.0%	5.6569
	5.6569



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

TEST ORGANISM LOG

FATHEAD MINNOW - LARVAL
(*Pimephales promelas*)

Aquatic Testing Laboratories

QA/QC BATCH NO.: RT-150106

SOURCE: In-Lab Culture

DATE HATCHED: 12-25-14

APPROXIMATE QUANTITY: 4 ml

GENERAL APPEARANCE: good

MORTALITIES 48 HOURS PRIOR TO TO USE IN TESTING: 0

DATE USED IN LAB: 1/6/15

AVERAGE FISH WEIGHT: 0.006 gm

LOADING LIMITS: 0.65 gm/liter @ 20ºC, 0.40 gm/liter @ 25ºC

Approximately 1000 fish per 10 liters limit if held overnight for acclimation without filtration @ 20ºC for fish with a mean weight of 0.006 gm.

Approximately 650 fish per 10 liters limit if held overnight for acclimation without filtration @ 25ºC for fish with a mean weight of 0.006 gm.

200 ml test solution volume = 0.013 gm mean fish weight limit @ 20ºC; 0.008 @ 25ºC
250 ml test solution volume = 0.016 gm mean fish weight limit @ 20ºC; 0.010 @ 25ºC

ACCLIMATION WATER QUALITY:

Temp.: 20.7 ºC pH: 8.2 Ammonia: 0 mg/l NH_3-N

DO: 8.7 mg/l Alkalinity: 50 mg/l Hardness: 92 mg/l

READINGS RECORDED BY: _____ DATE: 1-7-15

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

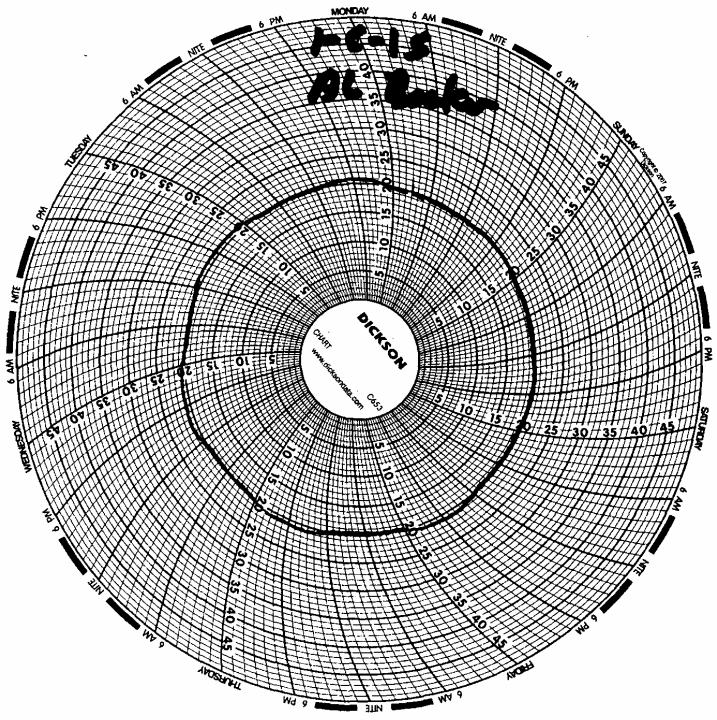
Aquatic Testing Laboratories

Test Temperature Chart

Test No: RT-150106

Date Tested: 01/06/15 to 01/10/15

Acceptable Range: 20 +/- 1°C



Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/30/2015 9:45
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Notes And Definitions

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Date of Report: 01/19/2015

Tim Nicely

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1500672
Invoice ID:	B193615

Enclosed are the results of analyses for samples received by the laboratory on 1/8/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 9

Sample Results

1500672-01 - HD-42
EPA Method 1664 11
Water Analysis (General Chemistry) 12

1500672-02 - HD-30
EPA Method 1664 13
Water Analysis (General Chemistry) 14

1500672-03 - HD-12
EPA Method 1664 15
Water Analysis (General Chemistry) 16

1500672-04 - HD-6
EPA Method 1664 17
Water Analysis (General Chemistry) 18

1500672-05 - W-17
EPA Method 1664 19
Water Analysis (General Chemistry) 20

1500672-06 - BYA
EPA Method 1664 21
Water Analysis (General Chemistry) 22

1500672-07 - W-13
EPA Method 1664 23
Water Analysis (General Chemistry) 24

1500672-08 - BYA-3
EPA Method 1664 25
Water Analysis (General Chemistry) 26

1500672-09 - W-8
EPA Method 1664 27
Water Analysis (General Chemistry) 28

1500672-10 - W-1
EPA Method 1664 29
Water Analysis (General Chemistry) 30

Quality Control Reports

EPA Method 1664
Method Blank Analysis 31
Laboratory Control Sample 32
Precision and Accuracy 33

Water Analysis (General Chemistry)
Method Blank Analysis 34
Laboratory Control Sample 35
Precision and Accuracy 36

Notes

Notes and Definitions 37

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

15.00672

* Required Fields

TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #: / FAX * #
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	805-289-3836 / 805-650-7010
		E-mail: tnicely@fugro.com; tcurtis@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Project Information: Malibu-NPDES

PO # / BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: N. Simon

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance: Electronic Data Transfer: Y ☐ N ☐ System No. *

ANALYSIS REQUESTED

Matrix Types: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	Residual Chlorine(SM4500-CL F)	Turbidity (EPA 180.1)
1	6	1/7/15	11:00	HD-42	RGW	pH 6.88, 21.3°C, Cl_T=.06	X								1
2			1130	HD-30		7.10, 21.5°C, Cl=.04	X								1
3			1150	HD-12		7.15, 22.2°C, Cl=.04	X								1
4			1210	HD-6		7.28, 21.7°C Cl=.04	X								1
5			1255	W-17		7.19, 21.9°C, Cl=0.0	X								1
6			1320	BYA		7.05, 22.5, Cl=0.0	X								1
7	1		1245	W-13		7.04, 21.7, Cl=0.02	X								1

SHORT HOLDING TIME: Cr^{+6} NO_2 NO_3 OP SS DO Cl_2 BOD MBAS COT

CHK BY: MR SUN

DISTRIBUTION: LT SUB-OUT

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Print Name)	Company
N. Simon	Fugro	1/7/15			1/7/15 16:30
	BC	1/8/15	11:35		BC 11:35
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	
		1-8-15	1855		

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

BC 1/8/15 18:55

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

~~1500753~~ 1/6/15 15-00672 TEMP: _____

Chain of Custody

* Required Fields

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #:
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	805-289-3836	805-650-7010

E-mail: tnicely@fugro.com; tcurtis@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: Malibu-NPDES

PO # 04.6Z140606 BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: TODD CURTIS

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	Residual Chlorine(SM4500-CL F)	Turbidity (EPA 180.1)
~~1~~	~~3~~	~~01/08~~	~~1150~~	~~BYA-1~~	~~GW~~	~~NO SAMPLE~~ ICE									
-8	6	01/08	1155	BYA-3	GW	T=24.1°C, pH=7.07 0.22									
-9	6	01/08	1240	W-8	GW	T=22.2 pH=6.80 Cl=0.00									
-10	6	01/08	1310	W-1	GW	T=21.7 pH=6.89 CL=0.10									

CHK BY DISTRIBUTION SUB-OUT

SHORT HOLDING TIME: Cr^{+6} NO_2 NO_3 OP SS DO Cl BOD MBAS CCT

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
Todd Curtis TODD CURTIS	FUGRO	01/08	4:15PM		BC LabS
	BC LabS	1/9	12:36		
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

R 1/9/15 12:30
1/9/15 13:50
1915 1350

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1500672 Page 3 of 6

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 1 Of 5 4 Coolers

Submission #: 15-00672

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: PE Thermometer ID: 208 Date/Time 4/8/15 1803

Temperature: (A) 2.5 °C / (C) 2.1 °C Analyst Init KVB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D	D							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E	E							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F	F							
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By:_____ Date/Time: 4-8-15 2140 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1500672 Page 4 of 6

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 2 of 2 for 1 jars

Submission #: 15-00672

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: PE Thermometer ID: 208 Date/Time 4/8/15 1903

Temperature: (A) 1.1 °C / (C) 0.7 °C Analyst Init KMB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	14	15	16	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D	D							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E	E							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F	F							
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: _____ Date/Time: 4.8.15 2145
A = Actual / C = Corrected

S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1500672 Page 5 of 6

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 3 Of 4 4/15

Submission #: 15-00672

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: PE Thermometer ID: 208 Date/Time 4/8/15 1903

Temperature: (A) 3.1 °C / (C) 2.7 °C Analyst Init KMB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL							ABC			
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS							D			
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE							E			
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL							F			
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By:_____ Date/Time: 4-8-15 2135 S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1500672 Page 6 of 6

BC LABORATORIES INC. 00672 COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 15-00753/9115

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: PE Thermometer ID: 208 Date/Time 1915

Temperature: (A) 1.0 °C / (C) 0.6 °C Analyst Init NM 1350

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	8	9	10	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	C,D,E	C,D,E	C,D,E							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	B	B	B							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	A	A	A							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F	F							
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By:_____ Date/Time: 1/9/15 1535 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1500672-01	**COC Number:**	---	**Receive Date:**	01/08/2015 18:55
	Project Number:	---	**Sampling Date:**	01/07/2015 11:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-42	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1500672-02	**COC Number:**	---	**Receive Date:**	01/08/2015 18:55
	Project Number:	---	**Sampling Date:**	01/07/2015 11:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-30	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1500672-03	**COC Number:**	---	**Receive Date:**	01/08/2015 18:55
	Project Number:	---	**Sampling Date:**	01/07/2015 11:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-12	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1500672-04	**COC Number:**	---	**Receive Date:**	01/08/2015 18:55
	Project Number:	---	**Sampling Date:**	01/07/2015 12:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-6	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1500672-05	**COC Number:**	---	**Receive Date:**	01/08/2015 18:55
	Project Number:	---	**Sampling Date:**	01/07/2015 12:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-17	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1500672-06	**COC Number:**	---	**Receive Date:**	01/08/2015 18:55
	Project Number:	---	**Sampling Date:**	01/07/2015 13:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1500672-07	**COC Number:**	---	**Receive Date:**	01/08/2015 18:55
	Project Number:	---	**Sampling Date:**	01/07/2015 13:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-13	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1500672-08	**COC Number:**	---	**Receive Date:**	01/08/2015 18:55
	Project Number:	---	**Sampling Date:**	01/08/2015 11:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-3	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1500672-09	**COC Number:**	---	**Receive Date:**	01/08/2015 18:55
	Project Number:	---	**Sampling Date:**	01/08/2015 12:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-8	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1500672-10	**COC Number:**	---	**Receive Date:**	01/08/2015 18:55
	Project Number:	---	**Sampling Date:**	01/08/2015 13:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-1	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1500672-01 | **Client Sample Name:** HD-42, 1/7/2015 11:00:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	01/09/15	01/09/15 08:10	MAM	Inst	1	BYA0842

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1500672-01 | **Client Sample Name:** HD-42, 1/7/2015 11:00:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.70**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.11**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.060**	**mg/L**	**0.20**	**0.030**	**EPA-425.1**	ND	**J,A07**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	**1.5**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	01/13/15	01/13/15 13:45	VV1	MANUAL	1	BYA0966
2	EPA-160.5	01/09/15	01/09/15 08:00	HPR	MANUAL	1	BYA0843
3	EPA-180.1	01/09/15	01/09/15 08:30	MC1	MANUAL	1	BYA1063
4	EPA-425.1	01/09/15	01/09/15 09:00	JMN	MS-V7	2	BYA0683
5	EPA-420.4	01/13/15	01/13/15 12:51	TDC	KONE-1	1	BYA0923
6	SM-4500SD	01/14/15	01/14/15 13:00	DIW	SPEC05	1	BYA1118
7	SM17-5210B	01/09/15	01/09/15 08:00	FBV	SPEC05	1.525	BYA1038

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1500672-02 | **Client Sample Name:** HD-30, 1/7/2015 11:30:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	01/09/15	01/09/15 08:10	MAM	Inst	1	BYA0842

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1500672-02 | **Client Sample Name:** HD-30, 1/7/2015 11:30:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.12**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.033**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	2.0	2.0	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	01/13/15	01/13/15 13:45	VV1	MANUAL	1	BYA0966
2	EPA-160.5	01/09/15	01/09/15 08:00	HPR	MANUAL	1	BYA0843
3	EPA-180.1	01/09/15	01/09/15 08:30	MC1	MANUAL	1	BYA1063
4	EPA-425.1	01/09/15	01/09/15 09:00	JMN	MS-V7	1	BYA0683
5	EPA-420.4	01/13/15	01/13/15 12:51	TDC	KONE-1	1	BYA0923
6	SM-4500SD	01/14/15	01/14/15 13:00	DIW	SPEC05	1	BYA1118
7	SM17-5210B	01/09/15	01/09/15 08:00	FBV	SPEC05	2.033	BYA1038

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1500672-03 | **Client Sample Name:** HD-12, 1/7/2015 11:50:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	01/09/15	01/09/15 08:10	MAM	Inst	1	BYA0842

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1500672-03 | **Client Sample Name:** HD-12, 1/7/2015 11:50:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**2.1**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.10**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.060**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	**1.5**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	01/13/15	01/13/15 13:45	VV1	MANUAL	1	BYA0966
2	EPA-160.5	01/09/15	01/09/15 08:00	HPR	MANUAL	1	BYA0843
3	EPA-180.1	01/09/15	01/09/15 08:30	MC1	MANUAL	1	BYA1063
4	EPA-425.1	01/09/15	01/09/15 09:00	JMN	MS-V7	1	BYA0684
5	EPA-420.4	01/13/15	01/13/15 12:51	TDC	KONE-1	1	BYA0923
6	SM-4500SD	01/14/15	01/14/15 13:00	DIW	SPEC05	1	BYA1118
7	SM17-5210B	01/09/15	01/09/15 08:00	FBV	SPEC05	1.525	BYA1038

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1500672-04 | **Client Sample Name:** HD-6, 1/7/2015 12:10:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	01/09/15	01/09/15 08:10	MAM	Inst	1	BYA0842

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1500672-04 | **Client Sample Name:** HD-6, 1/7/2015 12:10:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.15**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.047**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	01/13/15	01/13/15 13:45	VV1	MANUAL	1.010	BYA0966
2	EPA-160.5	01/09/15	01/09/15 08:00	HPR	MANUAL	1	BYA0843
3	EPA-180.1	01/09/15	01/09/15 08:30	MC1	MANUAL	1	BYA1063
4	EPA-425.1	01/09/15	01/09/15 09:00	JMN	MS-V7	1	BYA0683
5	EPA-420.4	01/13/15	01/13/15 12:51	TDC	KONE-1	1	BYA0923
6	SM-4500SD	01/14/15	01/14/15 13:00	DIW	SPEC05	1	BYA1118
7	SM17-5210B	01/09/15	01/09/15 08:00	FBV	SPEC05	1.525	BYA1038

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1500672-05 | **Client Sample Name:** W-17, 1/7/2015 12:55:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	01/09/15	01/09/15 08:10	MAM	Inst	1	BYA0842

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1500672-05 | **Client Sample Name:** W-17, 1/7/2015 12:55:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.28**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.053**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	01/13/15	01/13/15 13:45	VV1	MANUAL	1	BYA0966
2	EPA-160.5	01/09/15	01/09/15 08:00	HPR	MANUAL	1	BYA0843
3	EPA-180.1	01/09/15	01/09/15 08:30	MC1	MANUAL	1	BYA1063
4	EPA-425.1	01/09/15	01/09/15 09:00	JMN	MS-V7	1	BYA0683
5	EPA-420.4	01/13/15	01/13/15 12:51	TDC	KONE-1	1	BYA0923
6	SM-4500SD	01/14/15	01/14/15 13:00	DIW	SPEC05	1	BYA1118
7	SM17-5210B	01/09/15	01/09/15 08:00	FBV	SPEC05	1.525	BYA1038

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1500672-06 | **Client Sample Name:** BYA, 1/7/2015 1:20:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	01/09/15	01/09/15 08:10	MAM	Inst	1	BYA0842

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1500672-06 | **Client Sample Name:** BYA, 1/7/2015 1:20:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**2.0**	**mg/L**	**0.57**	**0.57**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**3.9**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.020**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	01/13/15	01/13/15 13:45	VV1	MANUAL	1.136	BYA0966
2	EPA-160.5	01/09/15	01/09/15 08:00	HPR	MANUAL	1	BYA0843
3	EPA-180.1	01/09/15	01/09/15 08:30	MC1	MANUAL	1	BYA1063
4	EPA-425.1	01/09/15	01/09/15 09:00	JMN	MS-V7	1	BYA0683
5	EPA-420.4	01/13/15	01/13/15 12:57	TDC	KONE-1	1	BYA0923
6	SM-4500SD	01/14/15	01/14/15 13:00	DIW	SPEC05	1	BYA1118
7	SM17-5210B	01/09/15	01/09/15 08:00	FBV	SPEC05	1.525	BYA1038

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1500672-07 | **Client Sample Name:** W-13, 1/7/2015 1:45:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	01/09/15	01/09/15 08:10	MAM	Inst	1	BYA0842

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1500672-07 | **Client Sample Name:** W-13, 1/7/2015 1:45:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.16**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.020**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	01/13/15	01/13/15 13:45	VV1	MANUAL	1	BYA0966
2	EPA-160.5	01/09/15	01/09/15 08:00	HPR	MANUAL	1	BYA0843
3	EPA-180.1	01/09/15	01/09/15 08:30	MC1	MANUAL	1	BYA1063
4	EPA-425.1	01/09/15	01/09/15 09:00	JMN	MS-V7	1	BYA0683
5	EPA-420.4	01/13/15	01/13/15 12:57	TDC	KONE-1	1	BYA0923
6	SM-4500SD	01/14/15	01/14/15 13:00	DIW	SPEC05	1	BYA1118
7	SM17-5210B	01/09/15	01/09/15 08:00	FBV	SPEC05	1.525	BYA1038

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1500672-08 | **Client Sample Name:** BYA-3, 1/8/2015 11:55:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	01/13/15	01/13/15 12:33	MAM	Inst	1	BYA1057

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1500672-08 | **Client Sample Name:** BYA-3, 1/8/2015 11:55:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.92**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.41**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.060**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	01/13/15	01/13/15 13:45	VV1	MANUAL	1.020	BYA0966
2	EPA-160.5	01/09/15	01/09/15 14:30	HPR	MANUAL	1	BYA0843
3	EPA-180.1	01/09/15	01/09/15 16:00	MC1	MANUAL	1	BYA1099
4	EPA-425.1	01/09/15	01/09/15 15:45	JMN	MS-V7	1	BYA0684
5	EPA-420.4	01/13/15	01/13/15 12:57	TDC	KONE-1	1	BYA0923
6	SM-4500SD	01/14/15	01/14/15 13:00	DIW	SPEC05	1	BYA1118
7	SM17-5210B	01/09/15	01/09/15 17:00	FBV	SPEC05	1.525	BYA1052

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1500672-09 | **Client Sample Name:** W-8, 1/8/2015 12:40:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	01/13/15	01/13/15 12:33	MAM	Inst	1	BYA1057

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1500672-09 | **Client Sample Name:** W-8, 1/8/2015 12:40:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**1.1**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.050**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	01/13/15	01/13/15 13:45	VV1	MANUAL	1	BYA0966
2	EPA-160.5	01/09/15	01/09/15 14:30	HPR	MANUAL	1	BYA0843
3	EPA-180.1	01/09/15	01/09/15 16:00	MC1	MANUAL	1	BYA1099
4	EPA-425.1	01/09/15	01/09/15 15:45	JMN	MS-V7	1	BYA0684
5	EPA-420.4	01/13/15	01/13/15 12:57	TDC	KONE-1	1	BYA0923
6	SM-4500SD	01/14/15	01/14/15 13:00	DIW	SPEC05	1	BYA1118
7	SM17-5210B	01/09/15	01/09/15 17:00	FBV	SPEC05	1.525	BYA1052

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1500672-10 | **Client Sample Name:** W-1, 1/8/2015 1:10:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	01/13/15	01/13/15 12:33	MAM	Inst	1	BYA1057

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1500672-10 | **Client Sample Name:** W-1, 1/8/2015 1:10:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**2.7**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**1.6**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.043**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	01/13/15	01/13/15 13:45	VV1	MANUAL	1.020	BYA0967
2	EPA-160.5	01/09/15	01/09/15 14:30	HPR	MANUAL	1	BYA0844
3	EPA-180.1	01/09/15	01/09/15 16:00	MC1	MANUAL	1	BYA1099
4	EPA-425.1	01/09/15	01/09/15 15:45	JMN	MS-V7	1	BYA0684
5	EPA-420.4	01/13/15	01/13/15 12:57	TDC	KONE-1	1	BYA0923
6	SM-4500SD	01/14/15	01/14/15 13:00	DIW	SPEC05	1	BYA1118
7	SM17-5210B	01/09/15	01/09/15 17:00	FBV	SPEC05	1.525	BYA1052

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYA0842						
Oil and Grease	BYA0842-BLK1	ND	mg/L	5.0	1.2	
QC Batch ID: BYA1057						
Oil and Grease	BYA1057-BLK1	ND	mg/L	5.0	1.2	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYA0842										
Oil and Grease	BYA0842-BS1	LCS	35.850	38.900	mg/L	92.2		78 - 114		
QC Batch ID: BYA1057										
Oil and Grease	BYA1057-BS1	LCS	33.300	39.800	mg/L	83.7		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYA0842	Used client sample: N										
Oil and Grease	DUP	1428224-64	ND	ND		mg/L			18		
	MS	1428224-64	ND	32.150	38.900	mg/L		82.6		78 - 114	
	MSD	1428224-64	ND	36.400	38.900	mg/L	12.4	93.6	18	78 - 114	
QC Batch ID: BYA1057	Used client sample: N										
Oil and Grease	DUP	1428224-65	ND	ND		mg/L			18		
	MS	1428224-65	ND	32.300	39.800	mg/L		81.2		78 - 114	
	MSD	1428224-65	ND	32.650	39.800	mg/L	1.1	82.0	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYA0683						
MBAS	BYA0683-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BYA0684						
MBAS	BYA0684-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BYA0923						
Total Phenolics	BYA0923-BLK1	ND	ug/L	50	10	
QC Batch ID: BYA0966						
Total Suspended Solids (Glass Fiber)	BYA0966-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BYA0967						
Total Suspended Solids (Glass Fiber)	BYA0967-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BYA1038						
Biochemical Oxygen Demand - Seeded	BYA1038-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BYA1052						
Biochemical Oxygen Demand - Seeded	BYA1052-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BYA1118						
Total Sulfide	BYA1118-BLK1	ND	mg/L	0.10	0.050	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYA0683										
MBAS	BYA0683-BS1	LCS	0.18990	0.20000	mg/L	95.0		85 - 115		
QC Batch ID: BYA0684										
MBAS	BYA0684-BS1	LCS	0.18990	0.20000	mg/L	95.0		85 - 115		
QC Batch ID: BYA0923										
Total Phenolics	BYA0923-BS1	LCS	500.12	500.00	ug/L	100		85 - 115		
QC Batch ID: BYA1038										
Biochemical Oxygen Demand - Seeded	BYA1038-BS1	LCS	182.49	198.00	mg/L	92.2		85 - 115		
QC Batch ID: BYA1052										
Biochemical Oxygen Demand - Seeded	BYA1052-BS1	LCS	182.49	198.00	mg/L	92.2		85 - 115		
QC Batch ID: BYA1118										
Total Sulfide	BYA1118-BS1	LCS	0.52709	0.50000	mg/L	105		90 - 110		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYA0683	Used client sample: Y - Description: HD-42, 01/07/2015 11:00										
MBAS	DUP	1500672-01	0.060000	0.066600		mg/L	10.4		20		J
	MS	1500672-01	0.060000	0.46660	0.40000	mg/L		102		80 - 120	
	MSD	1500672-01	0.060000	0.46660	0.40000	mg/L	0	102	20	80 - 120	
QC Batch ID: BYA0684	Used client sample: N										
MBAS	DUP	1500693-09	ND	ND		mg/L			20		
	MS	1500693-09	ND	0.42940	0.40000	mg/L		107		80 - 120	
	MSD	1500693-09	ND	0.42320	0.40000	mg/L	1.5	106	20	80 - 120	
QC Batch ID: BYA0843	Used client sample: N										
Settleable Solids	DUP	1500620-02	ND	ND		ml/L			10		
QC Batch ID: BYA0844	Used client sample: Y - Description: W-1, 01/08/2015 13:10										
Settleable Solids	DUP	1500672-10	ND	ND		ml/L			10		
QC Batch ID: BYA0923	Used client sample: Y - Description: HD-42, 01/07/2015 11:00										
Total Phenolics	DUP	1500672-01	ND	ND		ug/L			20		
	MS	1500672-01	ND	489.22	500.00	ug/L		97.8		80 - 120	
	MSD	1500672-01	ND	493.35	500.00	ug/L	0.8	98.7	20	80 - 120	
QC Batch ID: BYA0966	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1500743-02	1920.0	1753.3		mg/L	9.1		10		
QC Batch ID: BYA0967	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1500678-02	114.55	120.91		mg/L	5.4		10		
QC Batch ID: BYA1038	Used client sample: Y - Description: HD-30, 01/07/2015 11:30										
Biochemical Oxygen Demand - Seeded	DUP	1500672-02	ND	ND		mg/L			20		
QC Batch ID: BYA1052	Used client sample: N										
Biochemical Oxygen Demand - Seeded	DUP	1500723-02	123.52	118.95		mg/L	3.8		20		
QC Batch ID: BYA1063	Used client sample: Y - Description: HD-42, 01/07/2015 11:00										
Turbidity	DUP	1500672-01	0.10800	0.10500		NT Units	2.8		10		
QC Batch ID: BYA1099	Used client sample: Y - Description: BYA-3, 01/08/2015 11:55										
Turbidity	DUP	1500672-08	0.41400	0.41200		NT Units	0.5		10		
QC Batch ID: BYA1118	Used client sample: Y - Description: HD-42, 01/07/2015 11:00										
Total Sulfide	DUP	**1500672-01**	**ND**	**ND**		**mg/L**			**10**		
	MS	**1500672-01**	**ND**	**0.38634**	**0.50000**	**mg/L**		**77.3**		**80 - 120**	**Q03**
	MSD	**1500672-01**	**ND**	**0.38634**	**0.50000**	**mg/L**	**0**	**77.3**	**10**	**80 - 120**	**Q03**

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 01/19/2015 15:44
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A07	PQL's were raised due to sample dilution caused by high analyte concentration or matrix interference.
Q03	Matrix spike recovery(s) is(are) not within the control limits.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Date of Report: 02/23/2015

Todd Curtis

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1503427
Invoice ID:	B196311

Enclosed are the results of analyses for samples received by the laboratory on 2/10/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 8

Sample Results

1503427-01 - HD-42
EPA Method 1664 10
Water Analysis (General Chemistry) 11

1503427-02 - HD-30
EPA Method 1664 12
Water Analysis (General Chemistry) 13

1503427-03 - HD-12
EPA Method 1664 14
Water Analysis (General Chemistry) 15

1503427-04 - HD-6
EPA Method 1664 16
Water Analysis (General Chemistry) 17

1503427-05 - BYA-3
EPA Method 1664 18
Water Analysis (General Chemistry) 19

1503427-06 - W-8
EPA Method 1664 20
Water Analysis (General Chemistry) 21

1503427-07 - BYA-4
EPA Method 1664 22
Water Analysis (General Chemistry) 23

1503427-08 - W-13
EPA Method 1664 24
Water Analysis (General Chemistry) 25

1503427-09 - W-17
EPA Method 1664 26
Water Analysis (General Chemistry) 27

1503427-10 - W-1
EPA Method 1664 28
Water Analysis (General Chemistry) 29

Quality Control Reports

EPA Method 1664
Method Blank Analysis 30
Laboratory Control Sample 31
Precision and Accuracy 32

Water Analysis (General Chemistry)
Method Blank Analysis 33
Laboratory Control Sample 34
Precision and Accuracy 35

Notes

Notes and Definitions 36

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

Before Testing Contact Todd Curtis

* Required Fields 15-03427 TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #: 805-289-3836 FAX * #805-650-7010
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	E-mail: tnicely@fugro.com; tcurtis@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Project Information: Malibu-NPDES
PO # / BCL Quote #

How would you like your completed results sent? [✓] E-Mail [ ] Fax [ ] EDD [ ] Mail Only

Sampler Name Printed / Signature: Nick Simon

QC Request: [✓] STD [ ] Level II

Result Request ** Surcharge: [✓] STD [ ] 5 Day** [ ] 2 Day** [ ] 1 Day**

Carbon Copies: CDHS [ ] Fresno Co [ ] EPA [ ] Merced Co [ ] Tulare Co [ ] Other:

Regulatory Compliance: Electronic Data Transfer: Y [ ] N [ ] System No. *

ANALYSIS REQUESTED

Matrix Types: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	* Residual Chlorine(SM4500-Cl-F)	Turbidity (EPA 180.1)	pH
1	6	2-10-15	1030	HD-42	RGW	pH 6.96, 21.1°C, Cl=.02	X	X	X	X	X	X	X	X	X	X
2		"	1050	HD-30		7.29, 21.5°C Cl=0.00										
3			1110	HD-12		7.17, 22.2°C, Cl=0.00										
4			1120	HD-6		7.21, 21.6°C Cl=0.00										
5			1145	BYA-3		7.39, 23.2°C, Cl[illegible]=.03										
6			1200	W-8		6.95, 21.9°C, Cl=.12										
7			1220	BYA-4		N/A, 21.7°C Cl=.10										
8			1240	W-13		7.25, 21.8°C, Cl=.03										
9			1250	W-17		——— Cl=.03										
10	↓	↓	1320	W-1	↓	——— Cl=.02	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
N. Simon	Fugro	2-10-15	16:00		BC Labs
	Fugro	2-10-15	17:15		BC 2-10-15

Received for Lab by: (Signature and Printed Name)	Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.
BC 2-10-15 1850	2.10.15	1850	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1503427 Page 2 of 5

BC LABORATORIES INC. | COOLER RECEIPT FORM | Rev. No. 18 09/04/14 | Page 1 Of 34

Submission #: 15-03427

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 2/10/15 1841

Temperature: (A) 1.4 °C / (C) 1.2 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D	D							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E	E							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F	F							
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME (MEAS) DO Cl_2 NO_2 NO_3 DP COT

DISTRIBUTION SUB-OUT CHK BY

Comments:_____

Sample Numbering Completed By: KIB Date/Time: 2/10/15 1916 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1503427 Page 3 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 Of 34

Submission #: 15-03427

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐ BC Lab Field Service ☒ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: Amber Thermometer ID: 208

Temperature: (A) 0.4 °C / (C) 0.3 °C

Date/Time 2/10/15 1841

Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	4	5	6	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D	D							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E	E							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F	F							
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: KVB Date/Time: 2/10/15 1918 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1503427 Page 4 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 3 Of 34

Submission #: 15-03247

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 2/10/15 1840

Temperature: (A) 2.3 °C / (C) 2.1 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	7x	8x	9x	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D	D							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E	E							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F	F							
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: KIB Date/Time: 2/10/15 1911 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1503427 Page 5 of 5

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 4 of 4

Submission #: 15-03247

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208

Temperature: (A) 0.9 °C / (C) 0.7 °C

Date/Time 2/10/15 1846

Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										ABC
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										D
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										E
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										F
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: KIB Date/Time: 2/10/15 1920 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1503427-01	**COC Number:**	---	**Receive Date:**	02/10/2015 18:50
	Project Number:	---	**Sampling Date:**	02/10/2015 10:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-42	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1503427-02	**COC Number:**	---	**Receive Date:**	02/10/2015 18:50
	Project Number:	---	**Sampling Date:**	02/10/2015 10:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-30	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1503427-03	**COC Number:**	---	**Receive Date:**	02/10/2015 18:50
	Project Number:	---	**Sampling Date:**	02/10/2015 11:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-12	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1503427-04	**COC Number:**	---	**Receive Date:**	02/10/2015 18:50
	Project Number:	---	**Sampling Date:**	02/10/2015 11:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-6	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1503427-05	**COC Number:**	---	**Receive Date:**	02/10/2015 18:50
	Project Number:	---	**Sampling Date:**	02/10/2015 11:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-3	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1503427-06	**COC Number:**	---	**Receive Date:**	02/10/2015 18:50
	Project Number:	---	**Sampling Date:**	02/10/2015 12:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-8	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1503427-07	**COC Number:**	---	**Receive Date:**	02/10/2015 18:50
	Project Number:	---	**Sampling Date:**	02/10/2015 12:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-4	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1503427-08	**COC Number:**	---	**Receive Date:**	02/10/2015 18:50
	Project Number:	---	**Sampling Date:**	02/10/2015 12:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-13	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1503427-09	**COC Number:**	---	**Receive Date:**	02/10/2015 18:50
	Project Number:	---	**Sampling Date:**	02/10/2015 12:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-17	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1503427-10	**COC Number:**	---	**Receive Date:**	02/10/2015 18:50
	Project Number:	---	**Sampling Date:**	02/10/2015 13:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-1	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1503427-01 | **Client Sample Name:** HD-42, 2/10/2015 10:30:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	02/11/15	02/11/15 11:40	MAM	MAN-SV	1	BYB1475

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1503427-01 | **Client Sample Name:** HD-42, 2/10/2015 10:30:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.27**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.20	0.030	EPA-425.1	ND	A07	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	02/17/15	02/17/15 11:45	VV1	MANUAL	1	BYB1418
2	EPA-160.5	02/11/15	02/11/15 07:00	HPR	MANUAL	1	BYB1062
3	EPA-180.1	02/11/15	02/11/15 08:00	MC1	MANUAL	1	BYB0936
4	EPA-425.1	02/11/15	02/11/15 08:00	JMN	MANUAL	2	BYB0952
5	SM-4500-CLF	02/12/15	02/12/15 11:30	MSA	MANUAL	1	BYB1854
6	EPA-420.4	02/12/15	02/12/15 12:07	TDC	KONE-1	1	BYB1101
7	SM-4500SD	02/13/15	02/13/15 08:45	DIW	SPEC05	1	BYB1220
8	SM17-5210B	02/11/15	02/11/15 07:30	HPR	YSI-57	1.525	BYB1327

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1503427-02 | **Client Sample Name:** HD-30, 2/10/2015 10:50:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	02/11/15	02/11/15 11:40	MAM	MAN-SV	1	BYB1475

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1503427-02 | **Client Sample Name:** HD-30, 2/10/2015 10:50:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.14**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	02/17/15	02/17/15 11:45	VV1	MANUAL	1	BYB1418
2	EPA-160.5	02/11/15	02/11/15 07:00	HPR	MANUAL	1	BYB1062
3	EPA-180.1	02/11/15	02/11/15 08:00	MC1	MANUAL	1	BYB0936
4	EPA-425.1	02/11/15	02/11/15 08:00	JMN	MANUAL	1	BYB0952
5	SM-4500-CLF	02/12/15	02/12/15 11:30	MSA	MANUAL	1	BYB1854
6	EPA-420.4	02/12/15	02/12/15 12:07	TDC	KONE-1	1	BYB1101
7	SM-4500SD	02/13/15	02/13/15 08:45	DIW	SPEC05	1	BYB1220
8	SM17-5210B	02/11/15	02/11/15 07:30	HPR	YSI-57	1.525	BYB1327

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1503427-03 | **Client Sample Name:** HD-12, 2/10/2015 11:10:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	02/11/15	02/11/15 11:40	MAM	MAN-SV	1	BYB1475

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1503427-03 | **Client Sample Name:** HD-12, 2/10/2015 11:10:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.50**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.17**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	02/17/15	02/17/15 11:45	VV1	MANUAL	1	BYB1418
2	EPA-160.5	02/11/15	02/11/15 07:00	HPR	MANUAL	1	BYB1062
3	EPA-180.1	02/11/15	02/11/15 08:00	MC1	MANUAL	1	BYB0936
4	EPA-425.1	02/11/15	02/11/15 08:00	JMN	MANUAL	1	BYB0952
5	SM-4500-CLF	02/12/15	02/12/15 11:30	MSA	MANUAL	1	BYB1854
6	EPA-420.4	02/12/15	02/12/15 12:07	TDC	KONE-1	1	BYB1101
7	SM-4500SD	02/13/15	02/13/15 08:45	DIW	SPEC05	1	BYB1220
8	SM17-5210B	02/11/15	02/11/15 07:30	HPR	YSI-57	1.525	BYB1327

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1503427-04 | **Client Sample Name:** HD-6, 2/10/2015 11:20:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	02/11/15	02/11/15 11:40	MAM	MAN-SV	1	BYB1475

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1503427-04 | **Client Sample Name:** HD-6, 2/10/2015 11:20:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.12**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	02/17/15	02/17/15 11:45	VV1	MANUAL	1	BYB1418
2	EPA-160.5	02/11/15	02/11/15 07:00	HPR	MANUAL	1	BYB1062
3	EPA-180.1	02/11/15	02/11/15 08:00	MC1	MANUAL	1	BYB0936
4	EPA-425.1	02/11/15	02/11/15 08:00	JMN	MANUAL	1	BYB0952
5	SM-4500-CLF	02/12/15	02/12/15 11:30	MSA	MANUAL	1	BYB1854
6	EPA-420.4	02/12/15	02/12/15 12:07	TDC	KONE-1	1	BYB1101
7	SM-4500SD	02/13/15	02/13/15 08:45	DIW	SPEC05	1	BYB1220
8	SM17-5210B	02/11/15	02/11/15 07:30	HPR	YSI-57	1.525	BYB1327

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1503427-05 | **Client Sample Name:** BYA-3, 2/10/2015 11:45:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	02/11/15	02/11/15 11:40	MAM	MAN-SV	1	BYB1475

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1503427-05 | **Client Sample Name:** BYA-3, 2/10/2015 11:45:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.50**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.23**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	02/17/15	02/17/15 11:45	VV1	MANUAL	1	BYB1418
2	EPA-160.5	02/11/15	02/11/15 08:00	HPR	MANUAL	1	BYB1062
3	EPA-180.1	02/11/15	02/11/15 08:00	MC1	MANUAL	1	BYB0936
4	EPA-425.1	02/11/15	02/11/15 08:00	JMN	MANUAL	1	BYB0952
5	SM-4500-CLF	02/12/15	02/12/15 11:30	MSA	MANUAL	1	BYB1854
6	EPA-420.4	02/12/15	02/12/15 12:11	TDC	KONE-1	1	BYB1101
7	SM-4500SD	02/13/15	02/13/15 08:45	DIW	SPEC05	1	BYB1220
8	SM17-5210B	02/11/15	02/11/15 07:30	HPR	YSI-57	1.525	BYB1327

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1503427-06 | **Client Sample Name:** W-8, 2/10/2015 12:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	02/11/15	02/11/15 11:40	MAM	MAN-SV	1	BYB1475

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1503427-06 | **Client Sample Name:** W-8, 2/10/2015 12:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.35**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.030**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	02/17/15	02/17/15 11:45	VV1	MANUAL	1	BYB1418
2	EPA-160.5	02/11/15	02/11/15 08:00	HPR	MANUAL	1	BYB1062
3	EPA-180.1	02/11/15	02/11/15 08:00	MC1	MANUAL	1	BYB0936
4	EPA-425.1	02/11/15	02/11/15 08:00	JMN	MANUAL	1	BYB0952
5	SM-4500-CLF	02/12/15	02/12/15 11:30	MSA	MANUAL	1	BYB1854
6	EPA-420.4	02/12/15	02/12/15 12:27	TDC	KONE-1	1	BYB1101
7	SM-4500SD	02/13/15	02/13/15 08:45	DIW	SPEC05	1	BYB1220
8	SM17-5210B	02/11/15	02/11/15 07:30	HPR	YSI-57	1.525	BYB1327

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1503427-07 | **Client Sample Name:** BYA-4, 2/10/2015 12:20:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	02/11/15	02/11/15 11:40	MAM	MAN-SV	1	BYB1475

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1503427-07 | **Client Sample Name:** BYA-4, 2/10/2015 12:20:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
pH	**7.54**	**pH Units**	**0.05**	**0.05**	**SM-4500HB**		**S05**	1
Total Suspended Solids (Glass Fiber)	**1.4**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		2
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			3
Turbidity	**1.1**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			4
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		5
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	6
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		7
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		8
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-4500HB	02/12/15	02/12/15 16:47	RML	MET-1	1	BYB1036
2	EPA-160.2	02/17/15	02/17/15 11:45	VV1	MANUAL	1	BYB1419
3	EPA-160.5	02/11/15	02/11/15 08:00	HPR	MANUAL	1	BYB1062
4	EPA-180.1	02/11/15	02/11/15 08:00	MC1	MANUAL	1	BYB0936
5	EPA-425.1	02/11/15	02/11/15 08:00	JMN	MANUAL	1	BYB0952
6	SM-4500-CLF	02/12/15	02/12/15 11:30	MSA	MANUAL	1	BYB1854
7	EPA-420.4	02/12/15	02/12/15 12:11	TDC	KONE-1	1	BYB1101
8	SM-4500SD	02/13/15	02/13/15 08:45	DIW	SPEC05	1	BYB1220
9	SM17-5210B	02/11/15	02/11/15 07:30	HPR	YSI-57	1.525	BYB1327

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1503427-08 | **Client Sample Name:** W-13, 2/10/2015 12:40:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	02/11/15	02/11/15 11:40	MAM	MAN-SV	1	BYB1475

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1503427-08 | **Client Sample Name:** W-13, 2/10/2015 12:40:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.11**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	5
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		6
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		7
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	02/17/15	02/17/15 11:45	VV1	MANUAL	1	BYB1419
2	EPA-160.5	02/11/15	02/11/15 08:00	HPR	MANUAL	1	BYB1062
3	EPA-180.1	02/11/15	02/11/15 08:00	MC1	MANUAL	1	BYB0936
4	EPA-425.1	02/11/15	02/11/15 08:00	JMN	MANUAL	1	BYB0952
5	SM-4500-CLF	02/12/15	02/12/15 11:30	MSA	MANUAL	1	BYB1854
6	EPA-420.4	02/12/15	02/12/15 14:58	TDC	KONE-1	1	BYB1101
7	SM-4500SD	02/13/15	02/13/15 08:45	DIW	SPEC05	1	BYB1220
8	SM17-5210B	02/11/15	02/11/15 07:30	HPR	YSI-57	1.525	BYB1327

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1503427-09 | **Client Sample Name:** W-17, 2/10/2015 12:50:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	02/11/15	02/11/15 11:40	MAM	MAN-SV	1	BYB1475

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1503427-09 | **Client Sample Name:** W-17, 2/10/2015 12:50:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
pH	**7.71**	**pH Units**	**0.05**	**0.05**	**SM-4500HB**		**S05**	1
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		2
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			3
Turbidity	**0.24**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			4
MBAS	ND	mg/L	0.20	0.030	EPA-425.1	ND	A07	5
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	6
Total Phenolics	**12**	**ug/L**	**50**	**10**	**EPA-420.4**	ND	**J**	7
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		8
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-4500HB	02/12/15	02/12/15 16:58	RML	MET-1	1	BYB1036
2	EPA-160.2	02/17/15	02/17/15 11:45	VV1	MANUAL	1	BYB1419
3	EPA-160.5	02/11/15	02/11/15 08:00	HPR	MANUAL	1	BYB1062
4	EPA-180.1	02/11/15	02/11/15 08:00	MC1	MANUAL	1	BYB0936
5	EPA-425.1	02/11/15	02/11/15 08:00	JMN	MANUAL	2	BYB0953
6	SM-4500-CLF	02/12/15	02/12/15 11:30	MSA	MANUAL	1	BYB1854
7	EPA-420.4	02/17/15	02/17/15 13:29	TDC	KONE-1	1	BYB1341
8	SM-4500SD	02/13/15	02/13/15 08:45	DIW	SPEC05	1	BYB1220
9	SM17-5210B	02/11/15	02/11/15 07:30	HPR	YSI-57	1.525	BYB1327

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1503427-10 | **Client Sample Name:** W-1, 2/10/2015 1:20:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	02/11/15	02/11/15 11:40	MAM	MAN-SV	1	BYB1475

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1503427-10 | **Client Sample Name:** W-1, 2/10/2015 1:20:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
pH	**7.41**	**pH Units**	**0.05**	**0.05**	**SM-4500HB**		**S05**	1
Total Suspended Solids (Glass Fiber)	**1.1**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		2
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			3
Turbidity	**1.0**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			4
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		5
Residual Chlorine	ND	mg/L	0.10	0.10	SM-4500-CLF	ND	S05	6
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		7
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		8
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	SM-4500HB	02/12/15	02/12/15 17:03	RML	MET-1	1	BYB1036
2	EPA-160.2	02/17/15	02/17/15 11:45	VV1	MANUAL	1	BYB1419
3	EPA-160.5	02/11/15	02/11/15 08:00	HPR	MANUAL	1	BYB1062
4	EPA-180.1	02/11/15	02/11/15 08:00	MC1	MANUAL	1	BYB0936
5	EPA-425.1	02/11/15	02/11/15 08:00	JMN	MANUAL	1	BYB0953
6	SM-4500-CLF	02/12/15	02/12/15 11:30	MSA	MANUAL	1	BYB1854
7	EPA-420.4	02/17/15	02/17/15 13:29	TDC	KONE-1	1	BYB1341
8	SM-4500SD	02/13/15	02/13/15 08:45	DIW	SPEC05	1	BYB1220
9	SM17-5210B	02/11/15	02/11/15 07:30	HPR	YSI-57	1.525	BYB1327

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYB1475						
Oil and Grease	BYB1475-BLK1	ND	mg/L	5.0	1.2	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYB1475										
Oil and Grease	BYB1475-BS1	LCS	36.400	40.200	mg/L	90.5		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYB1475	Used client sample: N										
Oil and Grease	DUP	1428224-92	ND	ND		mg/L			18		
	MS	1428224-92	ND	36.700	40.200	mg/L		91.3		78 - 114	
	MSD	1428224-92	ND	36.950	40.200	mg/L	0.7	91.9	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYB0952						
MBAS	BYB0952-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BYB0953						
MBAS	BYB0953-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BYB1101						
Total Phenolics	BYB1101-BLK1	ND	ug/L	50	10	
QC Batch ID: BYB1220						
Total Sulfide	BYB1220-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BYB1327						
Biochemical Oxygen Demand - Seeded	BYB1327-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BYB1341						
Total Phenolics	BYB1341-BLK1	ND	ug/L	50	10	
QC Batch ID: BYB1418						
Total Suspended Solids (Glass Fiber)	BYB1418-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BYB1419						
Total Suspended Solids (Glass Fiber)	BYB1419-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BYB1854						
Residual Chlorine	BYB1854-BLK1	ND	mg/L	0.10	0.10	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYB0952										
MBAS	BYB0952-BS1	LCS	0.18670	0.20000	mg/L	93.4		85 - 115		
QC Batch ID: BYB0953										
MBAS	BYB0953-BS1	LCS	0.18670	0.20000	mg/L	93.4		85 - 115		
QC Batch ID: BYB1036										
pH	BYB1036-BS2	LCS	7.0300	7.0000	pH Units	100		95 - 105		
QC Batch ID: BYB1101										
Total Phenolics	BYB1101-BS1	LCS	501.71	500.00	ug/L	100		85 - 115		
QC Batch ID: BYB1220										
Total Sulfide	BYB1220-BS1	LCS	0.49945	0.50000	mg/L	99.9		90 - 110		
QC Batch ID: BYB1327										
Biochemical Oxygen Demand - Seeded	BYB1327-BS1	LCS	207.02	198.00	mg/L	105		85 - 115		
QC Batch ID: BYB1341										
Total Phenolics	BYB1341-BS1	LCS	478.01	500.00	ug/L	95.6		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYB0936	Used client sample: Y - Description: HD-42, 02/10/2015 10:30										
Turbidity	DUP	1503427-01	0.27300	0.27000		NT Units	1.1		10		
QC Batch ID: BYB0952	Used client sample: Y - Description: HD-42, 02/10/2015 10:30										
MBAS	DUP	1503427-01	ND	ND		mg/L			20		
	MS	1503427-01	ND	0.36380	0.40000	mg/L		91.0		80 - 120	
	MSD	1503427-01	ND	0.36380	0.40000	mg/L	0	91.0	20	80 - 120	
QC Batch ID: BYB0953	Used client sample: Y - Description: W-17, 02/10/2015 12:50										
MBAS	DUP	1503427-09	ND	ND		mg/L			20		
	MS	1503427-09	ND	0.37340	0.40000	mg/L		93.4		80 - 120	
	MSD	1503427-09	ND	0.36860	0.40000	mg/L	1.3	92.2	20	80 - 120	
QC Batch ID: BYB1036	Used client sample: Y - Description: BYA-4, 02/10/2015 12:20										
pH	DUP	1503427-07	7.5400	7.5800		pH Units	0.5		20		
QC Batch ID: BYB1062	Used client sample: Y - Description: HD-42, 02/10/2015 10:30										
Settleable Solids	DUP	1503427-01	ND	ND		ml/L			10		
QC Batch ID: BYB1101	Used client sample: N										
Total Phenolics	DUP	1503367-01	39.320	38.180		ug/L	2.9		20		J
	MS	1503367-01	39.320	534.48	500.00	ug/L		99.0		80 - 120	
	MSD	1503367-01	39.320	535.00	500.00	ug/L	0.1	99.1	20	80 - 120	
QC Batch ID: BYB1220	Used client sample: Y - Description: HD-42, 02/10/2015 10:30										
Total Sulfide	DUP	**1503427-01**	**ND**	**ND**		**mg/L**			**10**		
	MS	**1503427-01**	**ND**	**0.38004**	**0.50000**	**mg/L**		**76.0**		**80 - 120**	**Q03**
	MSD	**1503427-01**	**ND**	**0.37477**	**0.50000**	**mg/L**	**1.4**	**75.0**	**10**	**80 - 120**	**Q03**
QC Batch ID: BYB1327	Used client sample: Y - Description: HD-42, 02/10/2015 10:30										
Biochemical Oxygen Demand - Seeded	DUP	1503427-01	ND	ND		mg/L			20		
QC Batch ID: BYB1341	Used client sample: N										
Total Phenolics	DUP	1503425-02	4873.2	4834.6		ug/L	0.8		20		
	MS	1503425-02	4873.2	5337.3	500.00	ug/L		92.8		80 - 120	
	MSD	1503425-02	4873.2	5362.4	500.00	ug/L	0.5	97.8	20	80 - 120	
QC Batch ID: BYB1418	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1503611-01	79.231	73.077		mg/L	8.1		10		
QC Batch ID: BYB1419	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1503458-01	288.33	301.67		mg/L	4.5		10		
QC Batch ID: BYB1854	Used client sample: Y - Description: HD-42, 02/10/2015 10:30										
Residual Chlorine	DUP	1503427-01	ND	ND		mg/L			10		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 02/23/2015 11:40
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A07	PQL's were raised due to sample dilution caused by high analyte concentration or matrix interference.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
S05	The sample holding time was exceeded.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Date of Report: 03/13/2015

Todd Curtis

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1505333
Invoice ID:	B198138

Enclosed are the results of analyses for samples received by the laboratory on 3/4/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 8

Sample Results

1505333-01 - HD-42
EPA Method 1664 10
Water Analysis (General Chemistry) 11

1505333-02 - HD-30
EPA Method 1664 12
Water Analysis (General Chemistry) 13

1505333-03 - HD-12
EPA Method 1664 14
Water Analysis (General Chemistry) 15

1505333-04 - HD-6
EPA Method 1664 16
Water Analysis (General Chemistry) 17

1505333-05 - W-1
EPA Method 1664 18
Water Analysis (General Chemistry) 19

1505333-06 - W-17
EPA Method 1664 20
Water Analysis (General Chemistry) 21

1505333-07 - BYA-11
EPA Method 1664 22
Water Analysis (General Chemistry) 23

1505333-08 - W-13
EPA Method 1664 24
Water Analysis (General Chemistry) 25

1505333-09 - W-8
EPA Method 1664 26
Water Analysis (General Chemistry) 27

1505333-10 - BYA-3
EPA Method 1664 28
Water Analysis (General Chemistry) 29

Quality Control Reports

EPA Method 1664
Method Blank Analysis 30
Laboratory Control Sample 31
Precision and Accuracy 32

Water Analysis (General Chemistry)
Method Blank Analysis 33
Laboratory Control Sample 34
Precision and Accuracy 35

Notes

Notes and Definitions 36

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

15-05333

TEMP: _____

* Required Fields

Client/Company Name *:	Report Attention *:	Phone * #: 805-289-3836 FAX * #805-650-7010
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	E-mail: tnicely@fugro.com; tcurtis@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: Malibu-NPDES | PO # | BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y☐ N☐ System No. *

Sampler Name Printed / Signature: N. Simon

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	[redacted]	Turbidity (EPA 180.1)
1	6	3/4/15	1010	HD-42	RGW	pH 6.86, 21.1°C, Cl=0.00	X	X	X	X	X	X	X		X
2	(7)		1035	HD-30		pH 7.08, 21.5°C, Cl=0.00									
3	6		1050	HD-12		pH 7.07, 22.2°C, Cl=0.00									
4	6		1110	HD-6		pH 7.21, 21.5°C, Cl=0.00									
5	6		1140	W-1		pH 6.94, 21.6, Cl=.05									
6	6		1155	W-17		pH 7.34, 22.0°C, Cl=.03									
7	6		~~1210~~	~~BYA-11~~ BYA-11 (@ 13:30)		Cl=0.0 ~~6.95, 21.7°C~~, 7.32, 22.0									
8	6		1240	W 13		6.95, 21.7, Cl=.03									
9	6		1250	W 8		6.84, 22.0°C, Cl=0.0									
10	6	↓	1310	~~W~~ BYA-3	↓	7.41, 23.1°C Cl=0.0	↓	↓	↓	↓	↓	↓	↓		↓

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
N. Simon	Fugro	3/4/15	3:40p		BC Labs
	BC Labs	3/4/15	16:55		16:46
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	
	BC	3/4/15	19:50		

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER — 3.4.15 1950

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1505333 Page 2 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 4

Submission #: 15-05333

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☐ No ☒

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 3/4/15 1950

Temperature: (A) 1.3 °C / (C) 1.1 °C Analyst Init KLB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A&C	A&C	A&C							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	E	D							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	F	E							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	G	F							
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME: SS, O&P, NO_3, MBAS, COLI, BOD, NO_2, Cr^{+6}, Cl_2, DO

DISTRIBUTION: CHK BY, SUB-OUT ☐

Comments: No labels on Samples at all.

Sample Numbering Completed By: _____ Date/Time: 3-4-15 1950

A = Actual / C = Corrected

S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1505333 Page 3 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 Of 4

Submission #: 15-05333

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 3/4/15 1956

Temperature: (A) 1.6 °C / (C) 1.4 °C Analyst Init KLB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL				ABC	ABC	ABC				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE				D	D	D				
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS				E	E	E				
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1				F	F	F				
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By:_____ Date/Time: 3-4-15 1940 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1505333 Page 4 of 5

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 3 Of 4

Submission #: 15-05333

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐ BC Lab Field Service ☒ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 3/4/15 1957

Temperature: (A) 2.1 °C / (C) 1.9 °C Analyst Init KLB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL							ABC	ABC	ABC	
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE							D	D	D	
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS							E	E	E	
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL							F	F	F	
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By:_____ Date/Time: 3/4/15 2145 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1505333 Page 5 of 5

BC LABORATORIES INC.	COOLER RECEIPT FORM	Rev. No. 18 09/04/14	Page 4 Of 4
Submission #: 15-05333			

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: Amber Thermometer ID: 208 Date/Time 3/4/15 1956

Temperature: (A) 0.3 °C / (C) 0.2 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1 0	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	ED									
2oz. NITRATE / NITRITE	MM									
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	DE									
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F									
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By:_____ Date/Time: 3.4.15 1750 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1505333-01	**COC Number:**	---	**Receive Date:**	03/04/2015 19:50
	Project Number:	---	**Sampling Date:**	03/04/2015 10:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-42	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1505333-02	**COC Number:**	---	**Receive Date:**	03/04/2015 19:50
	Project Number:	---	**Sampling Date:**	03/04/2015 10:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-30	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1505333-03	**COC Number:**	---	**Receive Date:**	03/04/2015 19:50
	Project Number:	---	**Sampling Date:**	03/04/2015 10:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-12	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1505333-04	**COC Number:**	---	**Receive Date:**	03/04/2015 19:50
	Project Number:	---	**Sampling Date:**	03/04/2015 10:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	HD-6	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1505333-05	**COC Number:**	---	**Receive Date:**	03/04/2015 19:50
	Project Number:	---	**Sampling Date:**	03/04/2015 11:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-1	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1505333-06	**COC Number:**	---	**Receive Date:**	03/04/2015 19:50
	Project Number:	---	**Sampling Date:**	03/04/2015 11:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-17	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1505333-07	**COC Number:**	---	**Receive Date:**	03/04/2015 19:50
	Project Number:	---	**Sampling Date:**	03/04/2015 13:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-11	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1505333-08	**COC Number:**	---	**Receive Date:**	03/04/2015 19:50
	Project Number:	---	**Sampling Date:**	03/04/2015 12:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-13	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1505333-09	**COC Number:**	---	**Receive Date:**	03/04/2015 19:50
	Project Number:	---	**Sampling Date:**	03/04/2015 12:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	W-8	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1505333-10	**COC Number:**	---	**Receive Date:**	03/04/2015 19:50
	Project Number:	---	**Sampling Date:**	03/04/2015 13:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	BYA-3	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1505333-01 | **Client Sample Name:** HD-42, 3/4/2015 10:10:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/06/15	03/06/15 08:15	MAM	MAN-SV	1	BYC0895

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1505333-01 | **Client Sample Name:** HD-42, 3/4/2015 10:10:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.11**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.20	0.030	EPA-425.1	ND	A07	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/05/15	03/05/15 14:00	MSA	MANUAL	1.020	BYC0514
2	EPA-160.5	03/05/15	03/05/15 07:20	HPR	MANUAL	1	BYC0541
3	EPA-180.1	03/05/15	03/05/15 09:45	MC1	MANUAL	1	BYC0970
4	EPA-425.1	03/05/15	03/05/15 09:00	JMN	MANUAL	2	BYC0480
5	EPA-420.4	03/09/15	03/09/15 13:32	TDC	KONE-1	1	BYC0748
6	SM-4500SD	03/10/15	03/10/15 15:30	DIW	MANUAL	1	BYC0952
7	SM17-5210B	03/05/15	03/05/15 08:30	HPR	YSI-57	1.525	BYC0907

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1505333-02 | **Client Sample Name:** HD-30, 3/4/2015 10:35:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/06/15	03/06/15 08:15	MAM	MAN-SV	1	BYC0895

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1505333-02 | **Client Sample Name:** HD-30, 3/4/2015 10:35:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.50**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.12**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/05/15	03/05/15 14:00	MSA	MANUAL	1	BYC0514
2	EPA-160.5	03/05/15	03/05/15 07:20	HPR	MANUAL	1	BYC0541
3	EPA-180.1	03/05/15	03/05/15 09:45	MC1	MANUAL	1	BYC0970
4	EPA-425.1	03/05/15	03/05/15 09:00	JMN	MANUAL	1	BYC0480
5	EPA-420.4	03/09/15	03/09/15 13:32	TDC	KONE-1	1	BYC0748
6	SM-4500SD	03/10/15	03/10/15 15:30	DIW	MANUAL	1	BYC0952
7	SM17-5210B	03/05/15	03/05/15 08:30	HPR	YSI-57	1.525	BYC0907

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1505333-03 | **Client Sample Name:** HD-12, 3/4/2015 10:50:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/06/15	03/06/15 08:15	MAM	MAN-SV	1	BYC0895

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1505333-03 | **Client Sample Name:** HD-12, 3/4/2015 10:50:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.50**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.10**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	**1.7**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/05/15	03/05/15 14:00	MSA	MANUAL	1	BYC0514
2	EPA-160.5	03/05/15	03/05/15 07:20	HPR	MANUAL	1	BYC0541
3	EPA-180.1	03/05/15	03/05/15 09:45	MC1	MANUAL	1	BYC0970
4	EPA-425.1	03/05/15	03/05/15 09:00	JMN	MANUAL	1	BYC0480
5	EPA-420.4	03/09/15	03/09/15 13:32	TDC	KONE-1	1	BYC0748
6	SM-4500SD	03/10/15	03/10/15 15:30	DIW	MANUAL	1	BYC0952
7	SM17-5210B	03/05/15	03/05/15 08:30	HPR	YSI-57	1.525	BYC0907

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1505333-04 | **Client Sample Name:** HD-6, 3/4/2015 10:10:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/06/15	03/06/15 08:15	MAM	MAN-SV	1	BYC0895

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1505333-04 | **Client Sample Name:** HD-6, 3/4/2015 10:10:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.57	0.57	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.11**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/10/15	03/10/15 17:15	SSP	MANUAL	1.136	BYC0920
2	EPA-160.5	03/05/15	03/05/15 07:20	HPR	MANUAL	1	BYC0541
3	EPA-180.1	03/05/15	03/05/15 09:45	MC1	MANUAL	1	BYC0970
4	EPA-425.1	03/05/15	03/05/15 09:00	JMN	MANUAL	1	BYC0480
5	EPA-420.4	03/09/15	03/09/15 13:32	TDC	KONE-1	1	BYC0748
6	SM-4500SD	03/10/15	03/10/15 15:30	DIW	MANUAL	1	BYC0952
7	SM17-5210B	03/05/15	03/05/15 08:30	HPR	YSI-57	1.525	BYC0907

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1505333-05 | **Client Sample Name:** W-1, 3/4/2015 11:40:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/06/15	03/06/15 08:15	MAM	MAN-SV	1	BYC0895

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1505333-05 | **Client Sample Name:** W-1, 3/4/2015 11:40:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.2**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**2.6**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/10/15	03/10/15 17:15	SSP	MANUAL	1	BYC0920
2	EPA-160.5	03/05/15	03/05/15 07:20	HPR	MANUAL	1	BYC0541
3	EPA-180.1	03/05/15	03/05/15 09:45	MC1	MANUAL	1	BYC0970
4	EPA-425.1	03/05/15	03/05/15 09:00	JMN	MANUAL	1	BYC0480
5	EPA-420.4	03/09/15	03/09/15 13:32	TDC	KONE-1	1	BYC0748
6	SM-4500SD	03/10/15	03/10/15 15:30	DIW	MANUAL	1	BYC0952
7	SM17-5210B	03/05/15	03/05/15 08:30	HPR	YSI-57	1.525	BYC0907

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1505333-06 | **Client Sample Name:** W-17, 3/4/2015 11:55:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/06/15	03/06/15 08:15	MAM	MAN-SV	1	BYC0895

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1505333-06 | **Client Sample Name:** W-17, 3/4/2015 11:55:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.26**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	**13**	**ug/L**	**50**	**10**	**EPA-420.4**	ND	**J**	5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/10/15	03/10/15 17:15	SSP	MANUAL	1	BYC0920
2	EPA-160.5	03/05/15	03/05/15 07:20	HPR	MANUAL	1	BYC0541
3	EPA-180.1	03/05/15	03/05/15 09:45	MC1	MANUAL	1	BYC0970
4	EPA-425.1	03/05/15	03/05/15 09:00	JMN	MANUAL	1	BYC0480
5	EPA-420.4	03/09/15	03/09/15 13:38	TDC	KONE-1	1	BYC0748
6	SM-4500SD	03/10/15	03/10/15 15:30	DIW	MANUAL	1	BYC0952
7	SM17-5210B	03/05/15	03/05/15 08:30	HPR	YSI-57	1.525	BYC0907

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1505333-07 | **Client Sample Name:** BYA-11, 3/4/2015 1:30:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/06/15	03/06/15 08:15	MAM	MAN-SV	1	BYC0895

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1505333-07 | **Client Sample Name:** BYA-11, 3/4/2015 1:30:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.13**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/10/15	03/10/15 17:15	SSP	MANUAL	1	BYC0920
2	EPA-160.5	03/05/15	03/05/15 07:20	HPR	MANUAL	1	BYC0541
3	EPA-180.1	03/05/15	03/05/15 09:45	MC1	MANUAL	1	BYC0970
4	EPA-425.1	03/05/15	03/05/15 09:00	JMN	MANUAL	1	BYC0480
5	EPA-420.4	03/09/15	03/09/15 13:38	TDC	KONE-1	1	BYC0748
6	SM-4500SD	03/10/15	03/10/15 15:30	DIW	MANUAL	1	BYC0952
7	SM17-5210B	03/05/15	03/05/15 08:30	HPR	YSI-57	1.525	BYC0907

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1505333-08 | **Client Sample Name:** W-13, 3/4/2015 12:40:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/06/15	03/06/15 08:15	MAM	MAN-SV	1	BYC0895

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1505333-08 | **Client Sample Name:** W-13, 3/4/2015 12:40:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.12**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/10/15	03/10/15 17:15	SSP	MANUAL	1	BYC0920
2	EPA-160.5	03/05/15	03/05/15 07:20	HPR	MANUAL	1	BYC0541
3	EPA-180.1	03/05/15	03/05/15 09:45	MC1	MANUAL	1	BYC0970
4	EPA-425.1	03/05/15	03/05/15 09:00	JMN	MANUAL	1	BYC0480
5	EPA-420.4	03/09/15	03/09/15 13:38	TDC	KONE-1	1	BYC0748
6	SM-4500SD	03/10/15	03/10/15 15:30	DIW	MANUAL	1	BYC0952
7	SM17-5210B	03/05/15	03/05/15 08:30	HPR	YSI-57	1.525	BYC0907

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1505333-09 | **Client Sample Name:** W-8, 3/4/2015 12:50:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/06/15	03/06/15 08:15	MAM	MAN-SV	1	BYC0895

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1505333-09 | **Client Sample Name:** W-8, 3/4/2015 12:50:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	ND	NT Units	0.10	0.10	EPA-180.1			3
MBAS	**0.015**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	**100**	**ug/L**	**50**	**10**	**EPA-420.4**	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/10/15	03/10/15 17:15	SSP	MANUAL	1	BYC0920
2	EPA-160.5	03/05/15	03/05/15 07:20	HPR	MANUAL	1	BYC0541
3	EPA-180.1	03/05/15	03/05/15 09:45	MC1	MANUAL	1	BYC0970
4	EPA-425.1	03/05/15	03/05/15 09:00	JMN	MANUAL	1	BYC0480
5	EPA-420.4	03/09/15	03/09/15 13:38	TDC	KONE-1	1	BYC0748
6	SM-4500SD	03/10/15	03/10/15 15:30	DIW	MANUAL	1	BYC0952
7	SM17-5210B	03/05/15	03/05/15 08:30	HPR	YSI-57	1.525	BYC0907

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1505333-10 | **Client Sample Name:** BYA-3, 3/4/2015 1:10:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/06/15	03/06/15 08:15	MAM	MAN-SV	1	BYC0895

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1505333-10 | **Client Sample Name:** BYA-3, 3/4/2015 1:10:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.22**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/10/15	03/10/15 17:15	SSP	MANUAL	1	BYC0920
2	EPA-160.5	03/05/15	03/05/15 07:20	HPR	MANUAL	1	BYC0543
3	EPA-180.1	03/05/15	03/05/15 09:45	MC1	MANUAL	1	BYC0970
4	EPA-425.1	03/05/15	03/05/15 09:00	JMN	MANUAL	1	BYC0480
5	EPA-420.4	03/09/15	03/09/15 13:38	TDC	KONE-1	1	BYC0748
6	SM-4500SD	03/10/15	03/10/15 15:30	DIW	MANUAL	1	BYC0952
7	SM17-5210B	03/05/15	03/05/15 08:30	HPR	YSI-57	1.525	BYC0907

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYC0895						
Oil and Grease	BYC0895-BLK1	ND	mg/L	5.0	1.2	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYC0895										
Oil and Grease	BYC0895-BS1	LCS	34.600	38.900	mg/L	88.9		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYC0895	Used client sample: N										
Oil and Grease	DUP	1502150-35	ND	ND		mg/L			18		
	MS	1502150-35	ND	34.250	38.900	mg/L		88.0		78 - 114	
	MSD	1502150-35	ND	32.400	38.900	mg/L	5.6	83.3	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYC0480						
MBAS	BYC0480-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BYC0514						
Total Suspended Solids (Glass Fiber)	BYC0514-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BYC0748						
Total Phenolics	BYC0748-BLK1	ND	ug/L	50	10	
QC Batch ID: BYC0907						
Biochemical Oxygen Demand - Seeded	BYC0907-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BYC0920						
Total Suspended Solids (Glass Fiber)	BYC0920-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BYC0952						
Total Sulfide	BYC0952-BLK1	ND	mg/L	0.10	0.050	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYC0480										
MBAS	BYC0480-BS1	LCS	0.19050	0.20000	mg/L	95.2		85 - 115		
QC Batch ID: BYC0748										
Total Phenolics	BYC0748-BS1	LCS	505.31	500.00	ug/L	101		85 - 115		
QC Batch ID: BYC0907										
Biochemical Oxygen Demand - Seeded	BYC0907-BS1	LCS	175.88	198.00	mg/L	88.8		85 - 115		
QC Batch ID: BYC0952										
Total Sulfide	BYC0952-BS1	LCS	0.51799	0.50000	mg/L	104		90 - 110		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYC0480	Used client sample: Y - Description: HD-42, 03/04/2015 10:10										
MBAS	DUP	1505333-01	ND	ND		mg/L			20		
	MS	1505333-01	ND	0.39060	0.40000	mg/L		97.6		80 - 120	
	MSD	1505333-01	ND	0.38580	0.40000	mg/L	1.2	96.4	20	80 - 120	
QC Batch ID: BYC0514	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1505224-02	425.71	411.43		mg/L	3.4		10		
QC Batch ID: BYC0541	Used client sample: N										
Settleable Solids	DUP	1505316-05	ND	ND		ml/L			10		
QC Batch ID: BYC0543	Used client sample: Y - Description: BYA-3, 03/04/2015 13:10										
Settleable Solids	DUP	1505333-10	ND	ND		ml/L			10		
QC Batch ID: BYC0748	Used client sample: Y - Description: HD-42, 03/04/2015 10:10										
Total Phenolics	DUP	1505333-01	ND	ND		ug/L			20		
	MS	1505333-01	ND	486.48	500.00	ug/L		97.3		80 - 120	
	MSD	1505333-01	ND	483.37	500.00	ug/L	0.6	96.7	20	80 - 120	
QC Batch ID: BYC0907	Used client sample: Y - Description: HD-42, 03/04/2015 10:10										
Biochemical Oxygen Demand - Seeded	DUP	1505333-01	ND	ND		mg/L			20		
QC Batch ID: BYC0920	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1505316-03	108.33	108.33		mg/L	0		10		
QC Batch ID: BYC0952	Used client sample: Y - Description: HD-42, 03/04/2015 10:10										
Total Sulfide	DUP	1505333-01	ND	ND		mg/L			10		
	MS	1505333-01	ND	0.43018	0.50000	mg/L		86.0		80 - 120	
	MSD	1505333-01	ND	0.43197	0.50000	mg/L	0.4	86.4	10	80 - 120	
QC Batch ID: BYC0970	Used client sample: Y - Description: HD-42, 03/04/2015 10:10										
Turbidity	DUP	1505333-01	0.11400	0.11500		NT Units	0.9		10		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/13/2015 16:28
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Date of Report: 03/23/2015

Todd Curtis

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1506355
Invoice ID:	B198843

Enclosed are the results of analyses for samples received by the laboratory on 3/16/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 7

Sample Results

1506355-01 - M-001
EPA Method 1664 9
Water Analysis (General Chemistry) 10

1506355-02 - M-002
EPA Method 1664 11
Water Analysis (General Chemistry) 12

1506355-03 - M-003
EPA Method 1664 13
Water Analysis (General Chemistry) 14

1506355-04 - M-007
EPA Method 1664 15
Water Analysis (General Chemistry) 16

1506355-05 - M-006
EPA Method 1664 17
Water Analysis (General Chemistry) 18

1506355-06 - M-004
EPA Method 1664 19
Water Analysis (General Chemistry) 20

1506355-07 - M-005
EPA Method 1664 21
Water Analysis (General Chemistry) 22

1506355-08 - M-008
EPA Method 1664 23
Water Analysis (General Chemistry) 24

1506355-09 - M-009
EPA Method 1664 25
Water Analysis (General Chemistry) 26

1506355-10 - M-010
EPA Method 1664 27
Water Analysis (General Chemistry) 28

Quality Control Reports

EPA Method 1664
Method Blank Analysis 29
Laboratory Control Sample 30
Precision and Accuracy 31

Water Analysis (General Chemistry)
Method Blank Analysis 32
Laboratory Control Sample 33
Precision and Accuracy 34

Notes

Notes and Definitions 35

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

15-06355

* Required Fields

TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #
Fugro Consultants Inc.	Tim Nicely/Todd Curtis	805-289-3836	805-650-7010

E-mail: tnicely@fugro.com; tcurtis@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Project Information: Malibu-NPDES

PO # 04.62140606

BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: TODD CURTIS / Todd Curtis

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☒ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Matrix Types: RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	Residual Chlorine(SM4500-CL F)	Turbidity (EPA 180.1)
1	6	3/16	0930	M-001	RGW	T:17.9 pH:8.0 Cl:0.04									
2	6	3/16	0945	M-002	RGW	T:19.7 pH:7.75 Cl:0.00									
3	6	3/16	1145	M-003	RGW	T:17.9 pH:7.60 Cl:0.04									
4	6	3/16	1045	M-007	RGW	T:20.9 PH:7.80 Cl:0.04									
5	6	3/16	1030	M-006	RGW	T:20.9 pH:7.55 Cl:0.05									
6	6	3/16	1200	M-004	RGW	T:22.2 pH:7.75 Cl:0.05									
7	6	3/16	1215	M-005	RGW	T:22.1°C PH:7.81 CL:0.05									
8	6	3/16	1335	M-008	RGW	T:21.5°C PH:8.27 Cl:0.04									
9	6	3/16	1500	M-009	RGW	T:21.8°C PH:7.43 Cl:0.01									
10	6	3/16	1415	M-010	RGW	T:21.0 PH:7.94 Cl:0.09									
						T: PH: Cl:									

	Company	Date	Time		Company
Relinquished by: (Signature and Printed Name) TODD CURTIS	FUGRO	3/16	1645	Received by (Signature and Print Name)	BC Labs.
Relinquished by: (Signature and Printed Name) 3/16/15	19:00	3/16	19:00	Received by (Signature and Print Name)	BC 3/16/16 16:45
Received for Lab by: (Signature and Printed Name)		Date 3/16/15	Time 1900	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1506355 Page 2 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 3 TRO 4R3

Submission #: 15-06355

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 3/16/15 1715

Temperature: (A) 2.1 °C / (C) 1.9 °C Analyst Init KIB KIB 3/16/15

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	A B C	A B C		A B C			A B C			
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D		D			D			
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E		E			E			
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F		P			P			
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

HOLDING TIME: SS, OP, VOAS, COT, BOD, CN, NO_2, NO_3, Cr 6, TOC
DISTRIBUTION
SUB-OUT ☐
CHK BY

Comments:_____

Sample Numbering Completed By: M Date/Time: 3/16/15 1715

A = Actual / C = Corrected

[S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1506355 Page 3 of 4

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 2 of 2 3rd 2 of 3

Submission #: 15-06355

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐ BC Lab Field Service ☒ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 3/16/15 1855

Temperature: (A) 2.9 °C / (C) 2.7 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL			ABC		ABC	ABC				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE			D		D	D				
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS			E		E	E				
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1			F		F	F				
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By:_____ Date/Time: 3/16/15 1930 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1506355 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 3 Of 3

Submission #: 15-06355

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 3/16/15 1658

Temperature: (A) 2.1 °C / (C) 1.9 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7/10	8	9	10
T GENERAL MINERAL/ GENERAL							DBC	HBC	HBC	
[PE UNPRESERVED										
T INORGANIC CHEMICAL METALS										
[INORGANIC CHEMICAL METALS										
[CYANIDE										
[NITROGEN FORMS										
[TOTAL SULFIDE							D	D	D	
z. NITRATE / NITRITE										
' TOTAL ORGANIC CARBON										
' TOX										
' CHEMICAL OXYGEN DEMAND										
A PHENOLICS							E	E	E	
ml VOA VIAL TRAVEL BLANK										
ml VOA VIAL										
' EPA 413.1, 413.2, 418.1							F	F	F	
ODOR										
DIOLOGICAL										
CTERIOLOGICAL										
ml VOA VIAL- 504										
EPA 508/608/8080										
EPA 515.1/8150										
EPA 525										
EPA 525 TRAVEL BLANK										
l EPA 547										
l EPA 531.1										
Amber EPA 548										
EPA 549										
EPA 632										
EPA 8015M										
AMBER										
Z. JAR										
Z. JAR										
L SLEEVE										
VIAL										
STIC BAG										
ROUS IRON										
ORE										
RT KIT										
uma Canister										

nents:_____

le Numbering Completed By:_____ Date/Time: 3.16.15 1935 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1506355-01	**COC Number:**	---	**Receive Date:**	03/16/2015 19:00
	Project Number:	---	**Sampling Date:**	03/16/2015 09:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-001	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Water
1506355-02	**COC Number:**	---	**Receive Date:**	03/16/2015 19:00
	Project Number:	---	**Sampling Date:**	03/16/2015 09:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-002	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Water
1506355-03	**COC Number:**	---	**Receive Date:**	03/16/2015 19:00
	Project Number:	---	**Sampling Date:**	03/16/2015 11:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-003	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Water
1506355-04	**COC Number:**	---	**Receive Date:**	03/16/2015 19:00
	Project Number:	---	**Sampling Date:**	03/16/2015 10:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-007	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Water
1506355-05	**COC Number:**	---	**Receive Date:**	03/16/2015 19:00
	Project Number:	---	**Sampling Date:**	03/16/2015 10:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-006	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Water
1506355-06	**COC Number:**	---	**Receive Date:**	03/16/2015 19:00
	Project Number:	---	**Sampling Date:**	03/16/2015 12:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-004	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Water
1506355-07	**COC Number:**	---	**Receive Date:**	03/16/2015 19:00
	Project Number:	---	**Sampling Date:**	03/16/2015 12:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-005	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Water

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1506355-08	**COC Number:**	---	**Receive Date:**	03/16/2015 19:00
	Project Number:	---	**Sampling Date:**	03/16/2015 13:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-008	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Water
1506355-09	**COC Number:**	---	**Receive Date:**	03/16/2015 19:00
	Project Number:	---	**Sampling Date:**	03/16/2015 15:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-009	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Water
1506355-10	**COC Number:**	---	**Receive Date:**	03/16/2015 19:00
	Project Number:	---	**Sampling Date:**	03/16/2015 14:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-010	**Lab Matrix:**	Water
	Sampled By:	Todd Curtis	**Sample Type:**	Water

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1506355-01 | **Client Sample Name:** M-001, 3/16/2015 9:30:00AM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/17/15	03/17/15 09:50	MAM	MAN-SV	1	BYC1672

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1506355-01 | **Client Sample Name:** M-001, 3/16/2015 9:30:00AM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**4.7**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.76**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.20	0.030	EPA-425.1	ND	A07	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/17/15	03/17/15 14:00	SSP	MANUAL	1	BYC1617
2	EPA-160.5	03/17/15	03/17/15 07:20	HPR	MANUAL	1	BYC1615
3	EPA-180.1	03/17/15	03/17/15 14:00	MC1	MANUAL	1	BYC1820
4	EPA-425.1	03/17/15	03/17/15 08:00	JMN	MANUAL	2	BYC1552
5	EPA-420.4	03/18/15	03/18/15 11:20	TDC	KONE-1	1	BYC1658
6	SM-4500SD	03/19/15	03/19/15 15:53	DIW	SPEC05	1	BYC1838
7	SM17-5210B	03/17/15	03/17/15 07:20	HPR	YSI-57	1.525	BYC2011

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1506355-02 | **Client Sample Name:** M-002, 3/16/2015 9:45:00AM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/17/15	03/17/15 09:50	MAM	MAN-SV	1	BYC1672

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1506355-02 | **Client Sample Name:** M-002, 3/16/2015 9:45:00AM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.17**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/17/15	03/17/15 14:00	SSP	MANUAL	1	BYC1617
2	EPA-160.5	03/17/15	03/17/15 07:20	HPR	MANUAL	1	BYC1615
3	EPA-180.1	03/17/15	03/17/15 14:00	MC1	MANUAL	1	BYC1820
4	EPA-425.1	03/17/15	03/17/15 08:00	JMN	MANUAL	1	BYC1552
5	EPA-420.4	03/18/15	03/18/15 11:20	TDC	KONE-1	1	BYC1658
6	SM-4500SD	03/19/15	03/19/15 14:15	DIW	SPEC05	1	BYC1838
7	SM17-5210B	03/17/15	03/17/15 07:20	HPR	YSI-57	1.525	BYC2012

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1506355-03 | **Client Sample Name:** M-003, 3/16/2015 11:45:00AM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/17/15	03/17/15 09:50	MAM	MAN-SV	1	BYC1672

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1506355-03 | **Client Sample Name:** M-003, 3/16/2015 11:45:00AM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**2.7**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.53**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/17/15	03/17/15 14:00	SSP	MANUAL	1	BYC1617
2	EPA-160.5	03/17/15	03/17/15 07:20	HPR	MANUAL	1	BYC1615
3	EPA-180.1	03/17/15	03/17/15 14:00	MC1	MANUAL	1	BYC1820
4	EPA-425.1	03/17/15	03/17/15 08:00	JMN	MANUAL	1	BYC1552
5	EPA-420.4	03/18/15	03/18/15 11:20	TDC	KONE-1	1	BYC1658
6	SM-4500SD	03/19/15	03/19/15 14:15	DIW	SPEC05	1	BYC1838
7	SM17-5210B	03/17/15	03/17/15 07:20	HPR	YSI-57	1.525	BYC2012

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1506355-04 | **Client Sample Name:** M-007, 3/16/2015 10:45:00AM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/17/15	03/17/15 09:50	MAM	MAN-SV	1	BYC1672

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1506355-04 | **Client Sample Name:** M-007, 3/16/2015 10:45:00AM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.1**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.37**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.041**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	**1.7**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/17/15	03/17/15 14:00	SSP	MANUAL	1	BYC1617
2	EPA-160.5	03/17/15	03/17/15 07:20	HPR	MANUAL	1	BYC1615
3	EPA-180.1	03/17/15	03/17/15 14:00	MC1	MANUAL	1	BYC1820
4	EPA-425.1	03/17/15	03/17/15 08:00	JMN	MANUAL	1	BYC1552
5	EPA-420.4	03/18/15	03/18/15 11:20	TDC	KONE-1	1	BYC1658
6	SM-4500SD	03/19/15	03/19/15 14:15	DIW	SPEC05	1	BYC1838
7	SM17-5210B	03/17/15	03/17/15 07:20	HPR	YSI-57	1.525	BYC2012

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1506355-05 | **Client Sample Name:** M-006, 3/16/2015 10:30:00AM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/17/15	03/17/15 09:50	MAM	MAN-SV	1	BYC1672

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1506355-05 | **Client Sample Name:** M-006, 3/16/2015 10:30:00AM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**4.8**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.69**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.034**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/17/15	03/17/15 14:00	SSP	MANUAL	1	BYC1617
2	EPA-160.5	03/17/15	03/17/15 07:20	HPR	MANUAL	1	BYC1615
3	EPA-180.1	03/17/15	03/17/15 14:00	MC1	MANUAL	1	BYC1820
4	EPA-425.1	03/17/15	03/17/15 08:00	JMN	MANUAL	1	BYC1552
5	EPA-420.4	03/18/15	03/18/15 11:20	TDC	KONE-1	1	BYC1658
6	SM-4500SD	03/19/15	03/19/15 14:15	DIW	SPEC05	1	BYC1838
7	SM17-5210B	03/17/15	03/17/15 07:20	HPR	YSI-57	1.525	BYC2012

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1506355-06 | **Client Sample Name:** M-004, 3/16/2015 12:00:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/17/15	03/17/15 09:50	MAM	MAN-SV	1	BYC1672

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1506355-06 | **Client Sample Name:** M-004, 3/16/2015 12:00:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**5.3**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**2.1**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**3.2**	**mg/L**	**1.0**	**0.15**	**EPA-425.1**	ND	**A07**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	**9.8**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/17/15	03/17/15 14:00	SSP	MANUAL	1	BYC1617
2	EPA-160.5	03/17/15	03/17/15 07:20	HPR	MANUAL	1	BYC1615
3	EPA-180.1	03/17/15	03/17/15 14:00	MC1	MANUAL	1	BYC1820
4	EPA-425.1	03/17/15	03/17/15 08:00	JMN	MANUAL	10	BYC1552
5	EPA-420.4	03/18/15	03/18/15 11:26	TDC	KONE-1	1	BYC1658
6	SM-4500SD	03/19/15	03/19/15 14:15	DIW	SPEC05	1	BYC1838
7	SM17-5210B	03/17/15	03/17/15 07:20	HPR	YSI-57	1.525	BYC2012

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1506355-07 | **Client Sample Name:** M-005, 3/16/2015 12:15:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	**2.0**	**mg/L**	**5.0**	**1.2**	**EPA-1664A HEM**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/17/15	03/17/15 09:50	MAM	MAN-SV	1	BYC1672

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1506355-07 | **Client Sample Name:** M-005, 3/16/2015 12:15:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.2**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**2.4**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**3.1**	**mg/L**	**1.0**	**0.15**	**EPA-425.1**	ND	**A07**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	**7.4**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/17/15	03/17/15 14:00	SSP	MANUAL	1	BYC1617
2	EPA-160.5	03/17/15	03/17/15 07:20	HPR	MANUAL	1	BYC1615
3	EPA-180.1	03/17/15	03/17/15 14:00	MC1	MANUAL	1	BYC1820
4	EPA-425.1	03/17/15	03/17/15 08:00	JMN	MANUAL	10	BYC1552
5	EPA-420.4	03/18/15	03/18/15 11:26	TDC	KONE-1	1	BYC1658
6	SM-4500SD	03/19/15	03/19/15 14:15	DIW	SPEC05	1	BYC1838
7	SM17-5210B	03/17/15	03/17/15 07:20	HPR	YSI-57	1.525	BYC2012

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1506355-08 | **Client Sample Name:** M-008, 3/16/2015 1:35:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/17/15	03/17/15 09:50	MAM	MAN-SV	1	BYC1672

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1506355-08 | **Client Sample Name:** M-008, 3/16/2015 1:35:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.80**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.50**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.034**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/17/15	03/17/15 14:00	SSP	MANUAL	1	BYC1617
2	EPA-160.5	03/17/15	03/17/15 07:20	HPR	MANUAL	1	BYC1615
3	EPA-180.1	03/17/15	03/17/15 14:00	MC1	MANUAL	1	BYC1820
4	EPA-425.1	03/17/15	03/17/15 08:00	JMN	MANUAL	1	BYC1552
5	EPA-420.4	03/18/15	03/18/15 11:26	TDC	KONE-1	1	BYC1658
6	SM-4500SD	03/19/15	03/19/15 14:15	DIW	SPEC05	1	BYC1838
7	SM17-5210B	03/17/15	03/17/15 07:20	HPR	YSI-57	1.525	BYC2012

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1506355-09 | **Client Sample Name:** M-009, 3/16/2015 3:00:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/17/15	03/17/15 09:50	MAM	MAN-SV	1	BYC1672

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1506355-09 | **Client Sample Name:** M-009, 3/16/2015 3:00:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**1.8**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.36**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.036**	**mg/L**	**0.20**	**0.030**	**EPA-425.1**	ND	**J,A07**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/17/15	03/17/15 14:00	SSP	MANUAL	1	BYC1617
2	EPA-160.5	03/17/15	03/17/15 07:20	HPR	MANUAL	1	BYC1616
3	EPA-180.1	03/17/15	03/17/15 14:00	MC1	MANUAL	1	BYC1820
4	EPA-425.1	03/17/15	03/17/15 08:00	JMN	MANUAL	2	BYC1618
5	EPA-420.4	03/18/15	03/18/15 11:26	TDC	KONE-1	1	BYC1658
6	SM-4500SD	03/19/15	03/19/15 14:15	DIW	SPEC05	1	BYC1838
7	SM17-5210B	03/17/15	03/17/15 07:20	HPR	YSI-57	1.525	BYC2012

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

BCL Sample ID: 1506355-10 | **Client Sample Name:** M-010, 3/16/2015 2:15:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.2	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	03/17/15	03/17/15 09:50	MAM	MAN-SV	1	BYC1672

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

BCL Sample ID: 1506355-10 | **Client Sample Name:** M-010, 3/16/2015 2:15:00PM, Todd Curtis

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.70**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.16**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.027**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	03/17/15	03/17/15 14:00	SSP	MANUAL	1	BYC1617
2	EPA-160.5	03/17/15	03/17/15 07:20	HPR	MANUAL	1	BYC1616
3	EPA-180.1	03/17/15	03/17/15 14:00	MC1	MANUAL	1	BYC1820
4	EPA-425.1	03/17/15	03/17/15 08:00	JMN	MANUAL	1	BYC1618
5	EPA-420.4	03/18/15	03/18/15 11:26	TDC	KONE-1	1	BYC1658
6	SM-4500SD	03/19/15	03/19/15 14:15	DIW	SPEC05	1	BYC1838
7	SM17-5210B	03/17/15	03/17/15 07:20	HPR	YSI-57	1.525	BYC2012

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYC1672						
Oil and Grease	BYC1672-BLK1	ND	mg/L	5.0	1.2	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYC1672										
Oil and Grease	BYC1672-BS1	LCS	37.550	36.100	mg/L	104		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYC1672	Used client sample: N										
Oil and Grease	DUP	1502150-54	ND	ND		mg/L			18		
	MS	1502150-54	ND	39.650	36.100	mg/L		110		78 - 114	
	MSD	1502150-54	ND	36.800	36.100	mg/L	7.5	102	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYC1552						
MBAS	BYC1552-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BYC1617						
Total Suspended Solids (Glass Fiber)	BYC1617-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BYC1618						
MBAS	BYC1618-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BYC1658						
Total Phenolics	BYC1658-BLK1	ND	ug/L	50	10	
QC Batch ID: BYC1838						
Total Sulfide	BYC1838-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BYC2011						
Biochemical Oxygen Demand - Seeded	BYC2011-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BYC2012						
Biochemical Oxygen Demand - Seeded	BYC2012-BLK1	ND	mg/L	1.0	1.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYC1552										
MBAS	BYC1552-BS1	LCS	0.19150	0.20000	mg/L	95.8		85 - 115		
QC Batch ID: BYC1618										
MBAS	BYC1618-BS1	LCS	0.19150	0.20000	mg/L	95.8		85 - 115		
QC Batch ID: BYC1658										
Total Phenolics	BYC1658-BS1	LCS	486.62	500.00	ug/L	97.3		85 - 115		
QC Batch ID: BYC1838										
Total Sulfide	BYC1838-BS1	LCS	0.51232	0.50000	mg/L	102		90 - 110		
QC Batch ID: BYC2011										
Biochemical Oxygen Demand - Seeded	BYC2011-BS1	LCS	170.80	198.00	mg/L	86.3		85 - 115		
QC Batch ID: BYC2012										
Biochemical Oxygen Demand - Seeded	BYC2012-BS1	LCS	170.80	198.00	mg/L	86.3		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYC1552	Used client sample: Y - Description: M-001, 03/16/2015 09:30										
MBAS	DUP	1506355-01	ND	ND		mg/L			20		
	MS	1506355-01	ND	0.40220	0.40000	mg/L		101		80 - 120	
	MSD	1506355-01	ND	0.39260	0.40000	mg/L	2.4	98.2	20	80 - 120	
QC Batch ID: BYC1615	Used client sample: N										
Settleable Solids	DUP	1506353-01	ND	ND		ml/L			10		
QC Batch ID: BYC1616	Used client sample: Y - Description: M-009, 03/16/2015 15:00										
Settleable Solids	DUP	1506355-09	ND	ND		ml/L			10		
QC Batch ID: BYC1617	Used client sample: Y - Description: M-001, 03/16/2015 09:30										
Total Suspended Solids (Glass Fiber)	DUP	**1506355-01**	**4.7000**	**4.2000**		**mg/L**	**11.2**		**10**		**A02**
QC Batch ID: BYC1618	Used client sample: Y - Description: M-009, 03/16/2015 15:00										
MBAS	DUP	1506355-09	0.036400	0.036400		mg/L	0		20		J
	MS	1506355-09	0.036400	0.41180	0.40000	mg/L		93.8		80 - 120	
	MSD	1506355-09	0.036400	0.42140	0.40000	mg/L	2.3	96.2	20	80 - 120	
QC Batch ID: BYC1658	Used client sample: Y - Description: M-001, 03/16/2015 09:30										
Total Phenolics	DUP	1506355-01	ND	ND		ug/L			20		
	MS	1506355-01	ND	468.31	500.00	ug/L		93.7		80 - 120	
	MSD	1506355-01	ND	473.54	500.00	ug/L	1.1	94.7	20	80 - 120	
QC Batch ID: BYC1820	Used client sample: Y - Description: M-001, 03/16/2015 09:30										
Turbidity	DUP	1506355-01	0.75700	0.75500		NT Units	0.3		10		
QC Batch ID: BYC1838	Used client sample: Y - Description: M-001, 03/16/2015 09:30										
Total Sulfide	DUP	1506355-01	ND	ND		mg/L			10		
	MS	1506355-01	ND	0.45304	0.50000	mg/L		90.6		80 - 120	
	MSD	1506355-01	ND	0.44955	0.50000	mg/L	0.8	89.9	10	80 - 120	
QC Batch ID: BYC2011	Used client sample: N										
Biochemical Oxygen Demand - Seeded	DUP	1506253-01	2.8518	3.2940		mg/L	14.4		20		
QC Batch ID: BYC2012	Used client sample: Y - Description: M-002, 03/16/2015 09:45										
Biochemical Oxygen Demand - Seeded	DUP	1506355-02	ND	ND		mg/L			20		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 03/23/2015 15:33
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Todd Curtis

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A02	The difference between duplicate readings is less than the quantitation limit.
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

APPENDIX E-4
WATER QUALITY LABORATORY DATA
SECOND QUARTER (APRIL-JUNE) 2015

Date of Report: 04/10/2015

Tim Nicely

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1507690
Invoice ID:	B200459

Enclosed are the results of analyses for samples received by the laboratory on 4/1/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 8

Sample Results

1507690-01 - M-006

EPA Method 1664 10
Water Analysis (General Chemistry) 11

1507690-02 - M-007

EPA Method 1664 12
Water Analysis (General Chemistry) 13

1507690-03 - M-008

EPA Method 1664 14
Water Analysis (General Chemistry) 15

1507690-04 - M-009

EPA Method 1664 16
Water Analysis (General Chemistry) 17

1507690-05 - M-010

EPA Method 1664 18
Water Analysis (General Chemistry) 19

1507690-06 - M-001

EPA Method 1664 20
Water Analysis (General Chemistry) 21

1507690-07 - M-002

EPA Method 1664 22
Water Analysis (General Chemistry) 23

1507690-08 - M-003

EPA Method 1664 24
Water Analysis (General Chemistry) 25

1507690-09 - M-004

EPA Method 1664 26
Water Analysis (General Chemistry) 27

1507690-10 - M-005

EPA Method 1664 28
Water Analysis (General Chemistry) 29

Quality Control Reports

EPA Method 1664

Method Blank Analysis 30
Laboratory Control Sample 31
Precision and Accuracy 32

Water Analysis (General Chemistry)

Method Blank Analysis 33
Laboratory Control Sample 34
Precision and Accuracy 35

Notes

Notes and Definitions 36

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

15.07690

TEMP: _____

* Required Fields

Client/Company Name *:	Report Attention *:	Phone * #: 805-289-3836 FAX * #805-650-7010
Fugro Consultants Inc.	Tim Nicely/Nick Simon	E-mail: tnicely@fugro.com; nsimon@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: Malibu-NPDES

PO # / BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: N. Simon / [signature]

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☑ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	Residual Chlorine (SM4500-Cl F)	Turbidity (EPA 180.1)
-1	6	4/1/15	10:00	M-006	RGW	pH 7.90, Cl⁻ = 0.0, 20.7°C	X	X	X	X	X	X	X	X	X
-2			1020	M-007		~~pH 8.30~~, Cl⁻ = .03, 19.3	↓	↓	↓	↓	↓	↓	↓	↓	↓
-3			1045	M-008		pH 8.30, 19.3°C, Cl = .06									
-4			1055	M-009		7.85, 23.5°C, Cl = .07									
-5			1120	M-010		8.10, 21.0°C Cl = .07									
-6			1200	M-001		8.14, 19.4°C Cl = .06									
-7			1215	M-002		7.92, 19.8, Cl = .06									
-8			1330	M-003		8.14 20.1, Cl = .04									
-9			1240	M-004		7.91, 21.1°C, Cl = .05									
-10			1300	M-005	↓	7.88, 21.0°C, Cl = .04									

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
[signature] N. Simon	Fugro	4/1/15	355	[signature]	BC Labs
[signature]	BC Labs	4/1/15	16:00	[signature]	BC
[signature]	BC	4/1/15	18:30	[signature]	

Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1507690 Page 2 of 5

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 1 Of 4

Submission #: 15-07690

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☐ No ☒

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 4/11/15 1821

Temperature: (A) 0.8 °C / (C) 0.6 °C Analyst Init KB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D								
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E								
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1	F	F								
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME: SS, COT, OP, MBAS, NO_3, NO_2, BOD, Cl_2, S^{-2}, DO

DISTRIBUTION: SUB-OUT, CHK BY

Comments: All Samples only labeled on lids
Sample Numbering Completed By: AA Date/Time: 4-11-15 1918 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1507690 Page 3 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 Of 4

Submission #: 15-07690

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 4/1/15

Temperature: (A) 1.4 °C / (C) 1.2 °C Analyst Init KJB 1820

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL			ABC		ABC	ABC				
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE			D		D	D				
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS			E		E	E				
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1			F		F	F				
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By:_____ Date/Time: 4.1.15 1900

A = Actual / C = Corrected

{S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC}

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1507690 Page 4 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 3 Of 4

Submission #: 15-07690

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☒ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 4/11/15

Temperature: (A) 1.8 °C / (C) 1.6 °C Analyst Init MB 1521

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL								ABC		
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE								D		
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS								E		
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1								F		
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

omments:_____

ample Numbering Completed By: M Date/Time 4/11/15 1845 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
= Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1507690 Page 5 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 4 Of 4

Submission #: 15.07690

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received
☒ YES ☐ NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time 4/11/15
Temperature: (A) 0.7 °C / (C) 0.5 °C Analyst Init KB 1820

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL							ABC		ABC	ABC
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS							D		D	D
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND							E		E	E
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL							F		F	F
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By:_____ Date/Time: 4.15 1915 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1507690-01	**COC Number:**	---	**Receive Date:**	04/01/2015 18:40
	Project Number:	---	**Sampling Date:**	04/01/2015 10:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-006	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1507690-02	**COC Number:**	---	**Receive Date:**	04/01/2015 18:40
	Project Number:	---	**Sampling Date:**	04/01/2015 10:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-007	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1507690-03	**COC Number:**	---	**Receive Date:**	04/01/2015 18:40
	Project Number:	---	**Sampling Date:**	04/01/2015 10:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-008	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1507690-04	**COC Number:**	---	**Receive Date:**	04/01/2015 18:40
	Project Number:	---	**Sampling Date:**	04/01/2015 10:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-009	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1507690-05	**COC Number:**	---	**Receive Date:**	04/01/2015 18:40
	Project Number:	---	**Sampling Date:**	04/01/2015 11:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-010	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1507690-06	**COC Number:**	---	**Receive Date:**	04/01/2015 18:40
	Project Number:	---	**Sampling Date:**	04/01/2015 12:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-001	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1507690-07	**COC Number:**	---	**Receive Date:**	04/01/2015 18:40
	Project Number:	---	**Sampling Date:**	04/01/2015 12:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-002	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1507690-08	**COC Number:**	---	**Receive Date:**	04/01/2015 18:40
	Project Number:	---	**Sampling Date:**	04/01/2015 13:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-003	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1507690-09	**COC Number:**	---	**Receive Date:**	04/01/2015 18:40
	Project Number:	---	**Sampling Date:**	04/01/2015 12:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-004	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater
1507690-10	**COC Number:**	---	**Receive Date:**	04/01/2015 18:40
	Project Number:	---	**Sampling Date:**	04/01/2015 13:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-005	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1507690-01 | **Client Sample Name:** M-006, 4/1/2015 10:00:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	04/03/15	04/03/15 08:05	MAM	MAN-SV	1	BYD0356

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1507690-01 | **Client Sample Name:** M-006, 4/1/2015 10:00:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.34**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.20	0.030	EPA-425.1	ND	A07	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	04/06/15	04/06/15 13:45	VV1	MANUAL	1	BYD0450
2	EPA-160.5	04/02/15	04/02/15 07:30	HPR	YSI-57	1	BYD0239
3	EPA-180.1	04/02/15	04/02/15 11:30	MC1	MANUAL	1	BYD0186
4	EPA-425.1	04/02/15	04/02/15 08:00	JMN	MANUAL	2	BYD0155
5	EPA-420.4	04/06/15	04/06/15 13:21	TDC	KONE-1	1	BYD0398
6	SM-4500SD	04/02/15	04/02/15 14:00	DIW	SPEC05	1	BYD0289
7	SM17-5210B	04/02/15	04/02/15 08:45	HPR	YSI-57	1.525	BYD0493

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1507690-02 | **Client Sample Name:** M-007, 4/1/2015 10:20:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	04/03/15	04/03/15 08:05	MAM	MAN-SV	1	BYD0356

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1507690-02 | **Client Sample Name:** M-007, 4/1/2015 10:20:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.53**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	04/06/15	04/06/15 13:45	VV1	MANUAL	1	BYD0448
2	EPA-160.5	04/02/15	04/02/15 07:30	HPR	YSI-57	1	BYD0239
3	EPA-180.1	04/02/15	04/02/15 11:30	MC1	MANUAL	1	BYD0186
4	EPA-425.1	04/02/15	04/02/15 08:00	JMN	MANUAL	1	BYD0155
5	EPA-420.4	04/06/15	04/06/15 13:21	TDC	KONE-1	1	BYD0398
6	SM-4500SD	04/02/15	04/02/15 14:00	DIW	SPEC05	1	BYD0289
7	SM17-5210B	04/02/15	04/02/15 08:45	HPR	YSI-57	1.525	BYD0495

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1507690-03 | **Client Sample Name:** M-008, 4/1/2015 10:45:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	04/03/15	04/03/15 08:05	MAM	MAN-SV	1	BYD0356

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1507690-03 | **Client Sample Name:** M-008, 4/1/2015 10:45:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.50**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.32**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	04/06/15	04/06/15 13:45	VV1	MANUAL	1	BYD0448
2	EPA-160.5	04/02/15	04/02/15 07:30	HPR	YSI-57	1	BYD0239
3	EPA-180.1	04/02/15	04/02/15 11:30	MC1	MANUAL	1	BYD0186
4	EPA-425.1	04/02/15	04/02/15 08:00	JMN	MANUAL	1	BYD0155
5	EPA-420.4	04/06/15	04/06/15 13:21	TDC	KONE-1	1	BYD0398
6	SM-4500SD	04/02/15	04/02/15 14:00	DIW	SPEC05	1	BYD0289
7	SM17-5210B	04/02/15	04/02/15 08:45	HPR	YSI-57	1.525	BYD0495

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1507690-04 | **Client Sample Name:** M-009, 4/1/2015 10:55:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	04/03/15	04/03/15 08:05	MAM	MAN-SV	1	BYD0356

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1507690-04 | **Client Sample Name:** M-009, 4/1/2015 10:55:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.57	0.57	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.13**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	04/06/15	04/06/15 13:45	VV1	MANUAL	1.136	BYD0448
2	EPA-160.5	04/02/15	04/02/15 07:30	HPR	YSI-57	1	BYD0239
3	EPA-180.1	04/02/15	04/02/15 11:30	MC1	MANUAL	1	BYD0186
4	EPA-425.1	04/02/15	04/02/15 08:00	JMN	MANUAL	1	BYD0155
5	EPA-420.4	04/06/15	04/06/15 13:21	TDC	KONE-1	1	BYD0398
6	SM-4500SD	04/02/15	04/02/15 14:00	DIW	SPEC05	1	BYD0289
7	SM17-5210B	04/02/15	04/02/15 08:45	HPR	YSI-57	1.525	BYD0495

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1507690-05 | **Client Sample Name:** M-010, 4/1/2015 11:20:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	04/03/15	04/03/15 08:05	MAM	MAN-SV	1	BYD0356

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1507690-05 | **Client Sample Name:** M-010, 4/1/2015 11:20:00AM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.50**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.18**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	04/06/15	04/06/15 13:45	VV1	MANUAL	1	BYD0448
2	EPA-160.5	04/02/15	04/02/15 07:30	HPR	YSI-57	1	BYD0239
3	EPA-180.1	04/02/15	04/02/15 11:30	MC1	MANUAL	1	BYD0186
4	EPA-425.1	04/02/15	04/02/15 08:00	JMN	MANUAL	1	BYD0155
5	EPA-420.4	04/06/15	04/06/15 13:21	TDC	KONE-1	1	BYD0398
6	SM-4500SD	04/02/15	04/02/15 14:00	DIW	SPEC05	1	BYD0289
7	SM17-5210B	04/02/15	04/02/15 08:45	HPR	YSI-57	1.525	BYD0495

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1507690-06 | **Client Sample Name:** M-001, 4/1/2015 12:00:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	04/03/15	04/03/15 08:05	MAM	MAN-SV	1	BYD0356

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1507690-06 | **Client Sample Name:** M-001, 4/1/2015 12:00:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.11**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	04/06/15	04/06/15 13:45	VV1	MANUAL	1	BYD0448
2	EPA-160.5	04/02/15	04/02/15 07:30	HPR	YSI-57	1	BYD0239
3	EPA-180.1	04/02/15	04/02/15 11:30	MC1	MANUAL	1	BYD0186
4	EPA-425.1	04/02/15	04/02/15 08:00	JMN	MANUAL	1	BYD0155
5	EPA-420.4	04/06/15	04/06/15 13:27	TDC	KONE-1	1	BYD0398
6	SM-4500SD	04/02/15	04/02/15 14:00	DIW	SPEC05	1	BYD0289
7	SM17-5210B	04/02/15	04/02/15 08:45	HPR	YSI-57	1.525	BYD0495

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1507690-07 | **Client Sample Name:** M-002, 4/1/2015 12:15:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	04/03/15	04/03/15 08:05	MAM	MAN-SV	1	BYD0356

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1507690-07 | **Client Sample Name:** M-002, 4/1/2015 12:15:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.50**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.16**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.026**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	04/06/15	04/06/15 13:45	VV1	MANUAL	1	BYD0448
2	EPA-160.5	04/02/15	04/02/15 07:30	HPR	YSI-57	1	BYD0239
3	EPA-180.1	04/02/15	04/02/15 11:30	MC1	MANUAL	1	BYD0186
4	EPA-425.1	04/02/15	04/02/15 08:00	JMN	MANUAL	1	BYD0155
5	EPA-420.4	04/06/15	04/06/15 13:27	TDC	KONE-1	1	BYD0398
6	SM-4500SD	04/02/15	04/02/15 14:00	DIW	SPEC05	1	BYD0289
7	SM17-5210B	04/02/15	04/02/15 08:45	HPR	YSI-57	1.525	BYD0495

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1507690-08 | **Client Sample Name:** M-003, 4/1/2015 1:30:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	04/03/15	04/03/15 08:05	MAM	MAN-SV	1	BYD0356

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1507690-08 | **Client Sample Name:** M-003, 4/1/2015 1:30:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.26**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	**10**	**ug/L**	**50**	**10**	**EPA-420.4**	ND	**J**	5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	04/06/15	04/06/15 13:45	VV1	MANUAL	1	BYD0448
2	EPA-160.5	04/02/15	04/02/15 07:30	HPR	YSI-57	1	BYD0240
3	EPA-180.1	04/02/15	04/02/15 11:30	MC1	MANUAL	1	BYD0186
4	EPA-425.1	04/02/15	04/02/15 08:00	JMN	MANUAL	1	BYD0155
5	EPA-420.4	04/06/15	04/06/15 13:27	TDC	KONE-1	1	BYD0398
6	SM-4500SD	04/02/15	04/02/15 14:00	DIW	SPEC05	1	BYD0289
7	SM17-5210B	04/02/15	04/02/15 08:45	HPR	YSI-57	1.525	BYD0495

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1507690-09 | **Client Sample Name:** M-004, 4/1/2015 12:40:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	04/03/15	04/03/15 08:05	MAM	MAN-SV	1	BYD0356

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1507690-09 | **Client Sample Name:** M-004, 4/1/2015 12:40:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.24**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	04/06/15	04/06/15 13:45	VV1	MANUAL	1	BYD0448
2	EPA-160.5	04/02/15	04/02/15 07:30	HPR	YSI-57	1	BYD0240
3	EPA-180.1	04/02/15	04/02/15 11:30	MC1	MANUAL	1	BYD0186
4	EPA-425.1	04/02/15	04/02/15 08:00	JMN	MANUAL	1	BYD0155
5	EPA-420.4	04/06/15	04/06/15 13:27	TDC	KONE-1	1	BYD0398
6	SM-4500SD	04/02/15	04/02/15 14:00	DIW	SPEC05	1	BYD0289
7	SM17-5210B	04/02/15	04/02/15 08:45	HPR	YSI-57	1.525	BYD0495

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1507690-10 | **Client Sample Name:** M-005, 4/1/2015 1:00:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	**2.9**	**mg/L**	**5.0**	**1.7**	**EPA-1664A HEM**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	04/03/15	04/03/15 08:05	MAM	MAN-SV	1	BYD0356

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1507690-10 | **Client Sample Name:** M-005, 4/1/2015 1:00:00PM, Tim Nicely

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**4.9**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.34**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	04/06/15	04/06/15 13:45	VV1	MANUAL	1.010	BYD0448
2	EPA-160.5	04/02/15	04/02/15 07:30	HPR	YSI-57	1	BYD0240
3	EPA-180.1	04/02/15	04/02/15 11:30	MC1	MANUAL	1	BYD0186
4	EPA-425.1	04/02/15	04/02/15 08:00	JMN	MANUAL	1	BYD0155
5	EPA-420.4	04/06/15	04/06/15 13:27	TDC	KONE-1	1	BYD0398
6	SM-4500SD	04/02/15	04/02/15 14:00	DIW	SPEC05	1	BYD0289
7	SM17-5210B	04/02/15	04/02/15 08:45	HPR	YSI-57	1.525	BYD0495

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYD0356						
Oil and Grease	BYD0356-BLK1	ND	mg/L	5.0	1.7	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYD0356										
Oil and Grease	BYD0356-BS1	LCS	38.050	37.000	mg/L	103		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYD0356	Used client sample: N										
Oil and Grease	DUP	1502150-76	ND	ND		mg/L			18		
	MS	1502150-76	ND	37.800	37.000	mg/L		102		78 - 114	
	MSD	1502150-76	ND	34.150	37.000	mg/L	10.1	92.3	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYD0155						
MBAS	BYD0155-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BYD0289						
Total Sulfide	BYD0289-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BYD0398						
Total Phenolics	BYD0398-BLK1	ND	ug/L	50	10	
QC Batch ID: BYD0448						
Total Suspended Solids (Glass Fiber)	BYD0448-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BYD0450						
Total Suspended Solids (Glass Fiber)	BYD0450-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BYD0493						
Biochemical Oxygen Demand - Seeded	BYD0493-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BYD0495						
Biochemical Oxygen Demand - Seeded	BYD0495-BLK1	ND	mg/L	1.0	1.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYD0155										
MBAS	BYD0155-BS1	LCS	0.18930	0.20000	mg/L	94.6		85 - 115		
QC Batch ID: BYD0289										
Total Sulfide	BYD0289-BS1	LCS	0.51093	0.50000	mg/L	102		90 - 110		
QC Batch ID: BYD0398										
Total Phenolics	BYD0398-BS1	LCS	494.05	500.00	ug/L	98.8		85 - 115		
QC Batch ID: BYD0493										
Biochemical Oxygen Demand - Seeded	BYD0493-BS1	LCS	179.64	198.00	mg/L	90.7		85 - 115		
QC Batch ID: BYD0495										
Biochemical Oxygen Demand - Seeded	BYD0495-BS1	LCS	179.64	198.00	mg/L	90.7		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYD0155	Used client sample: Y - Description: M-006, 04/01/2015 10:00										
MBAS	DUP	1507690-01	ND	ND		mg/L			20		
	MS	1507690-01	ND	0.37380	0.40000	mg/L		93.4		80 - 120	
	MSD	1507690-01	ND	0.38800	0.40000	mg/L	3.7	97.0	20	80 - 120	
QC Batch ID: BYD0186	Used client sample: Y - Description: M-006, 04/01/2015 10:00										
Turbidity	DUP	1507690-01	0.33700	0.33500		NT Units	0.6		10		
QC Batch ID: BYD0239	Used client sample: N										
Settleable Solids	DUP	1507676-02	ND	ND		ml/L			10		
QC Batch ID: BYD0240	Used client sample: Y - Description: M-003, 04/01/2015 13:30										
Settleable Solids	DUP	1507690-08	ND	ND		ml/L			10		
QC Batch ID: BYD0289	Used client sample: Y - Description: M-006, 04/01/2015 10:00										
Total Sulfide	DUP	1507690-01	ND	ND		mg/L			10		
	MS	1507690-01	ND	0.49876	0.50000	mg/L		99.8		80 - 120	
	MSD	1507690-01	ND	0.49876	0.50000	mg/L	0	99.8	10	80 - 120	
QC Batch ID: BYD0398	Used client sample: Y - Description: M-006, 04/01/2015 10:00										
Total Phenolics	DUP	1507690-01	ND	ND		ug/L			20		
	MS	1507690-01	ND	478.26	500.00	ug/L		95.7		80 - 120	
	MSD	1507690-01	ND	498.68	500.00	ug/L	4.2	99.7	20	80 - 120	
QC Batch ID: BYD0448	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1507708-02	90.667	92.000		mg/L	1.5		10		
QC Batch ID: BYD0450	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1507538-02	65.455	61.818		mg/L	5.7		10		
QC Batch ID: BYD0493	Used client sample: N										
Biochemical Oxygen Demand - Seeded	DUP	1507587-05	35.031	31.720		mg/L	9.9		20		
QC Batch ID: BYD0495	Used client sample: Y - Description: M-007, 04/01/2015 10:20										
Biochemical Oxygen Demand - Seeded	DUP	1507690-02	ND	ND		mg/L			20		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 04/10/2015 16:52
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Date of Report: 05/26/2015

Tim Nicely

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1511772
Invoice ID:	B204016

Enclosed are the results of analyses for samples received by the laboratory on 5/13/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 3
Laboratory / Client Sample Cross Reference 8

Sample Results

1511772-01 - M-001

EPA Method 1664 10
Water Analysis (General Chemistry) 11

1511772-02 - M-002

EPA Method 1664 12
Water Analysis (General Chemistry) 13

1511772-03 - M-004

EPA Method 1664 14
Water Analysis (General Chemistry) 15

1511772-04 - M-005

EPA Method 1664 16
Water Analysis (General Chemistry) 17

1511772-05 - M-006

EPA Method 1664 18
Water Analysis (General Chemistry) 19

1511772-06 - M-007

EPA Method 1664 20
Water Analysis (General Chemistry) 21

1511772-07 - M-003

EPA Method 1664 22
Water Analysis (General Chemistry) 23

1511772-08 - M-008

EPA Method 1664 24
Water Analysis (General Chemistry) 25

1511772-09 - M-009

EPA Method 1664 26
Water Analysis (General Chemistry) 27

1511772-10 - M-010

EPA Method 1664 28
Water Analysis (General Chemistry) 29

Quality Control Reports

EPA Method 1664

Method Blank Analysis 30
Laboratory Control Sample 31
Precision and Accuracy 32

Water Analysis (General Chemistry)

Method Blank Analysis 33
Laboratory Control Sample 34
Precision and Accuracy 35

Notes

Notes and Definitions 36

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

15-11772

TEMP: _____

* Required Fields

Client/Company Name *:	Report Attention *:	Phone * #: 805-289-3836 FAX * #805-650-7010
Fugro Consultants Inc.	Tim Nicely/Nick Simon	E-mail: tnicely@fugro.com; nsimon@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: Malibu-NPDES

PO # / BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Sampler Name Printed / Signature: N. Simon / [signature]

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Matrix Types: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Clorinated Finished Water; FW = Finished Water; CWW = Chorinated Waste Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; DW = Drinking Water; SO = Solid

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	T.S.S.(EPA 160.2)	Settleable Solids(EPA 160.5)	BOD 5 (seeded) (SM5210B)	Oil & Grease (EPA 1664)	MBAS (EPA 425.1)	Total Sulfides (SM4500-S D)	Phenols (EPA 420.4)	~~Residual Chlorine(SM4500-CL F)~~	Turbidity (EPA 180.1)
1	6	5-13-15	0950	M-001	RGW	7.76 pH, Cl=.03 mg/L, 15.6°C	X	X	X	X	X	X	X		X
2			1005	M-002		7.41 .04 17.6									
3			1020	M-004		7.60 .03 19.1									
4			1145	M-005		9.98 .00 19.5									
5			1200	M-006		8.68 .04 20.3									
6			1215	M-007		8.19 .06 19.6									
7			1045	M-003		7.26 .00 19.7									
8			1245	M-008		8.97 .00 19.0									
9			1330	M-009		8.15 .06 22.1									
10			1300	M-010		8.32 .06 19.9									

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
[signature], N. Simon	Fugro	5-13-15	4:15p	[signature]	BC Labs
[signature]	BC	5/13/15	19:05	[signature] BC	5/13/15 16:22
Received for Lab by: (Signature and Printed Name) [signature]		Date 5.13.15	Time 1905	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1511772 Page 2 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 of 1

Submission #: 15-11772

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 5/13/15 1859

Temperature: (A) 1.7 °C / (C) 1.8 °C Analyst Init KHB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D	D							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E	E							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA ~~413.1, 413.2, 418.1~~ 1664	F	F	F							
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME: Cr^{+6} NO_3 Cl_2 DO BOD NO_3 OP MBAS COT SS

DISTRIBUTION CHK BY SUB OUT ☐

Comments:_____
Sample Numbering Completed By: _____ Date/Time: 5/14/15 @ 0815 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1511772 Page 3 of 5

BC LABORATORIES INC. — COOLER RECEIPT FORM — Rev. No. 18 09/04/14 Page 1 of 1

Submission #: 15-11772

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 5/13/15 1859
Temperature: (A) 0.3 °C / (C) 0.4 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 14	18	10	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D	D							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E	E							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA ~~413.1, 413.2, 418.1~~ 1664	F	F	F							
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:
Sample Numbering Completed By: _____ Date/Time: 5/14/15 @ 0815 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1511772 Page 4 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 Of 4

Submission #: 15-11772

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐ BC Lab Field Service ☒ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 5/13/15 1559

Temperature: (A) 1.5 °C / (C) 1.6 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	15	16	17	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC	ABC	ABC							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D	D	D							
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E	E	E							
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA ~~413.1, 413.2, 418.1~~ 1664	F	F	F							
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:

Sample Numbering Completed By: _____ Date/Time: 5/14/15 @0815 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1511772 Page 5 of 5

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 4 Of 4

Submission #: 15-11772

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery ☐ BC Lab Field Service ☒ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: Amber Thermometer ID: 208 Temperature: (A) 0.5 °C / (C) 0.0 °C

Date/Time 5/13/15 1858 Analyst Init KHB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	ABC									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	D									
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	E									
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA ~~413.1, 413.2, 418.1~~ 1664	F									
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: MW Date/Time: 5/14/15 @ 0815 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC)

A = Actual / C = Corrected

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1511772-01	**COC Number:**	---	**Receive Date:**	05/13/2015 19:05
	Project Number:	---	**Sampling Date:**	05/13/2015 09:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-001	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1511772-02	**COC Number:**	---	**Receive Date:**	05/13/2015 19:05
	Project Number:	---	**Sampling Date:**	05/13/2015 10:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-002	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1511772-03	**COC Number:**	---	**Receive Date:**	05/13/2015 19:05
	Project Number:	---	**Sampling Date:**	05/13/2015 10:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-004	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1511772-04	**COC Number:**	---	**Receive Date:**	05/13/2015 19:05
	Project Number:	---	**Sampling Date:**	05/13/2015 11:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-005	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1511772-05	**COC Number:**	---	**Receive Date:**	05/13/2015 19:05
	Project Number:	---	**Sampling Date:**	05/13/2015 12:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-006	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1511772-06	**COC Number:**	---	**Receive Date:**	05/13/2015 19:05
	Project Number:	---	**Sampling Date:**	05/13/2015 12:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-007	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1511772-07	**COC Number:**	---	**Receive Date:**	05/13/2015 19:05
	Project Number:	---	**Sampling Date:**	05/13/2015 10:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-003	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1511772-08	**COC Number:**	---	**Receive Date:**	05/13/2015 19:05
	Project Number:	---	**Sampling Date:**	05/13/2015 12:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-008	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1511772-09	**COC Number:**	---	**Receive Date:**	05/13/2015 19:05
	Project Number:	---	**Sampling Date:**	05/13/2015 13:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-009	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater
1511772-10	**COC Number:**	---	**Receive Date:**	05/13/2015 19:05
	Project Number:	---	**Sampling Date:**	05/13/2015 13:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M-010	**Lab Matrix:**	Water
	Sampled By:	N. Simon	**Sample Type:**	Groundwater

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1511772-01 | **Client Sample Name:** M-001, 5/13/2015 9:50:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	05/15/15	05/15/15 08:15	MAM	MAN-SV	1	BYE1700

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1511772-01 | **Client Sample Name:** M-001, 5/13/2015 9:50:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.18**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.022**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	05/19/15	05/19/15 12:55	OJP	MANUAL	1	BYE1719
2	EPA-160.5	05/15/15	05/15/15 05:20	HPR	MANUAL	1	BYE1477
3	EPA-180.1	05/15/15	05/15/15 08:00	MC1	MANUAL	1	BYE1357
4	EPA-425.1	05/14/15	05/14/15 08:00	JMN	MANUAL	1	BYE1252
5	EPA-420.4	05/18/15	05/19/15 11:29	TDC	KONE-1	1	BYE1592
6	SM-4500SD	05/20/15	05/20/15 20:30	DIW	SPEC05	1	BYE1902
7	SM17-5210B	05/15/15	05/15/15 06:35	HPR	YSI-57	1.525	BYE1778

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1511772-02 | **Client Sample Name:** M-002, 5/13/2015 10:05:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	05/15/15	05/15/15 08:15	MAM	MAN-SV	1	BYE1700

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1511772-02 | **Client Sample Name:** M-002, 5/13/2015 10:05:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.11**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.017**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	05/19/15	05/19/15 12:55	OJP	MANUAL	1	BYE1719
2	EPA-160.5	05/15/15	05/15/15 05:20	HPR	MANUAL	1	BYE1477
3	EPA-180.1	05/15/15	05/15/15 08:00	MC1	MANUAL	1	BYE1357
4	EPA-425.1	05/14/15	05/14/15 08:00	JMN	MANUAL	1	BYE1252
5	EPA-420.4	05/18/15	05/19/15 11:30	TDC	KONE-1	1	BYE1592
6	SM-4500SD	05/20/15	05/20/15 20:30	DIW	SPEC05	1	BYE1902
7	SM17-5210B	05/15/15	05/15/15 06:35	HPR	YSI-57	1.525	BYE1778

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1511772-03 | **Client Sample Name:** M-004, 5/13/2015 10:20:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	05/15/15	05/15/15 08:15	MAM	MAN-SV	1	BYE1700

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1511772-03 | **Client Sample Name:** M-004, 5/13/2015 10:20:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.24**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.039**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	05/19/15	05/19/15 12:55	OJP	MANUAL	1	BYE1719
2	EPA-160.5	05/15/15	05/15/15 05:20	HPR	MANUAL	1	BYE1477
3	EPA-180.1	05/15/15	05/15/15 08:00	MC1	MANUAL	1	BYE1357
4	EPA-425.1	05/14/15	05/14/15 08:00	JMN	MANUAL	1	BYE1252
5	EPA-420.4	05/18/15	05/19/15 11:35	TDC	KONE-1	1	BYE1592
6	SM-4500SD	05/20/15	05/20/15 20:30	DIW	SPEC05	1	BYE1902
7	SM17-5210B	05/15/15	05/15/15 06:35	HPR	YSI-57	1.525	BYE1778

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1511772-04 | **Client Sample Name:** M-005, 5/13/2015 11:45:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	**2.2**	**mg/L**	**5.0**	**1.7**	**EPA-1664A HEM**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	05/15/15	05/15/15 08:15	MAM	MAN-SV	1	BYE1700

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1511772-04 | **Client Sample Name:** M-005, 5/13/2015 11:45:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**4.7**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**5.4**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**1.8**	**mg/L**	**0.40**	**0.060**	**EPA-425.1**	ND	**A07**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	**14**	**mg/L**	**2.0**	**2.0**	**SM17-5210B**			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	05/19/15	05/19/15 12:50	OJP	MANUAL	1	BYE1717
2	EPA-160.5	05/15/15	05/15/15 05:20	HPR	MANUAL	1	BYE1477
3	EPA-180.1	05/15/15	05/15/15 08:00	MC1	MANUAL	1	BYE1357
4	EPA-425.1	05/14/15	05/14/15 08:00	JMN	MANUAL	4	BYE1252
5	EPA-420.4	05/18/15	05/19/15 11:35	TDC	KONE-1	1	BYE1592
6	SM-4500SD	05/20/15	05/20/15 20:30	DIW	SPEC05	1	BYE1902
7	SM17-5210B	05/15/15	05/15/15 06:35	HPR	YSI-57	2.033	BYE1778

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1511772-05 | **Client Sample Name:** M-006, 5/13/2015 12:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	05/15/15	05/15/15 08:15	MAM	MAN-SV	1	BYE1700

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1511772-05 | **Client Sample Name:** M-006, 5/13/2015 12:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.28**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.056**	**mg/L**	**0.20**	**0.030**	**EPA-425.1**	ND	**J,A07**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	05/19/15	05/19/15 12:50	OJP	MANUAL	1	BYE1717
2	EPA-160.5	05/15/15	05/15/15 05:20	HPR	MANUAL	1	BYE1477
3	EPA-180.1	05/15/15	05/15/15 08:00	MC1	MANUAL	1	BYE1357
4	EPA-425.1	05/14/15	05/14/15 08:00	JMN	MANUAL	2	BYE1302
5	EPA-420.4	05/18/15	05/19/15 11:35	TDC	KONE-1	1	BYE1592
6	SM-4500SD	05/20/15	05/20/15 20:30	DIW	SPEC05	1	BYE1902
7	SM17-5210B	05/15/15	05/15/15 06:35	HPR	YSI-57	1.525	BYE1778

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1511772-06 | **Client Sample Name:** M-007, 5/13/2015 12:15:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	05/15/15	05/15/15 08:15	MAM	MAN-SV	1	BYE1700

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1511772-06 | **Client Sample Name:** M-007, 5/13/2015 12:15:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.90**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.49**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.085**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	**1.8**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	05/19/15	05/19/15 12:50	OJP	MANUAL	1	BYE1717
2	EPA-160.5	05/15/15	05/15/15 05:20	HPR	MANUAL	1	BYE1477
3	EPA-180.1	05/15/15	05/15/15 08:00	MC1	MANUAL	1	BYE1357
4	EPA-425.1	05/14/15	05/14/15 08:00	JMN	MANUAL	1	BYE1302
5	EPA-420.4	05/18/15	05/19/15 11:35	TDC	KONE-1	1	BYE1592
6	SM-4500SD	05/20/15	05/20/15 20:30	DIW	SPEC05	1	BYE1902
7	SM17-5210B	05/15/15	05/15/15 06:35	HPR	YSI-57	1.525	BYE1778

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1511772-07 | **Client Sample Name:** M-003, 5/13/2015 10:45:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	05/15/15	05/15/15 08:15	MAM	MAN-SV	1	BYE1700

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1511772-07 | **Client Sample Name:** M-003, 5/13/2015 10:45:00AM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.23**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.039**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	05/19/15	05/19/15 12:50	OJP	MANUAL	1	BYE1717
2	EPA-160.5	05/15/15	05/15/15 05:20	HPR	MANUAL	1	BYE1477
3	EPA-180.1	05/15/15	05/15/15 08:00	MC1	MANUAL	1	BYE1357
4	EPA-425.1	05/14/15	05/14/15 08:00	JMN	MANUAL	1	BYE1302
5	EPA-420.4	05/18/15	05/19/15 11:35	TDC	KONE-1	1	BYE1592
6	SM-4500SD	05/20/15	05/20/15 20:30	DIW	SPEC05	1	BYE1902
7	SM17-5210B	05/15/15	05/15/15 06:35	HPR	YSI-57	1.525	BYE1778

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1511772-08 | **Client Sample Name:** M-008, 5/13/2015 12:45:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	05/15/15	05/15/15 08:15	MAM	MAN-SV	1	BYE1700

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1511772-08 | **Client Sample Name:** M-008, 5/13/2015 12:45:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.13**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.074**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	05/19/15	05/19/15 12:50	OJP	MANUAL	1	BYE1717
2	EPA-160.5	05/15/15	05/15/15 05:20	HPR	MANUAL	1	BYE1477
3	EPA-180.1	05/15/15	05/15/15 08:00	MC1	MANUAL	1	BYE1357
4	EPA-425.1	05/14/15	05/14/15 08:00	JMN	MANUAL	1	BYE1302
5	EPA-420.4	05/19/15	05/19/15 16:44	TDC	KONE-1	1	BYE1669
6	SM-4500SD	05/20/15	05/20/15 20:30	DIW	SPEC05	1	BYE1902
7	SM17-5210B	05/15/15	05/15/15 06:35	HPR	YSI-57	1.525	BYE1778

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1511772-09 | **Client Sample Name:** M-009, 5/13/2015 1:30:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	05/15/15	05/15/15 08:15	MAM	MAN-SV	1	BYE1700

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1511772-09 | **Client Sample Name:** M-009, 5/13/2015 1:30:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	ND	NT Units	0.10	0.10	EPA-180.1			3
MBAS	**0.022**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	05/19/15	05/19/15 12:50	OJP	MANUAL	1.010	BYE1717
2	EPA-160.5	05/15/15	05/15/15 05:20	HPR	MANUAL	1	BYE1477
3	EPA-180.1	05/15/15	05/15/15 08:00	MC1	MANUAL	1	BYE1357
4	EPA-425.1	05/14/15	05/14/15 08:00	JMN	MANUAL	1	BYE1302
5	EPA-420.4	05/19/15	05/19/15 16:44	TDC	KONE-1	1	BYE1669
6	SM-4500SD	05/20/15	05/20/15 20:30	DIW	SPEC05	1	BYE1902
7	SM17-5210B	05/15/15	05/15/15 06:35	HPR	YSI-57	1.525	BYE1778

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1511772-10 | **Client Sample Name:** M-010, 5/13/2015 1:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	05/15/15	05/15/15 08:15	MAM	MAN-SV	1	BYE1700

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1511772-10 | **Client Sample Name:** M-010, 5/13/2015 1:00:00PM, N. Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.50**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.11**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	05/19/15	05/19/15 12:50	OJP	MANUAL	1	BYE1717
2	EPA-160.5	05/15/15	05/15/15 05:20	HPR	MANUAL	1	BYE1477
3	EPA-180.1	05/15/15	05/15/15 08:00	MC1	MANUAL	1	BYE1357
4	EPA-425.1	05/14/15	05/14/15 08:00	JMN	MANUAL	1	BYE1302
5	EPA-420.4	05/19/15	05/19/15 16:44	TDC	KONE-1	1	BYE1669
6	SM-4500SD	05/20/15	05/20/15 20:30	DIW	SPEC05	1	BYE1902
7	SM17-5210B	05/15/15	05/15/15 06:35	HPR	YSI-57	1.525	BYE1778

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYE1700						
Oil and Grease	BYE1700-BLK1	ND	mg/L	5.0	1.7	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYE1700										
Oil and Grease	BYE1700-BS1	LCS	38.300	40.800	mg/L	93.9		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYE1700	Used client sample: N										
Oil and Grease	DUP	1506890-76	ND	ND		mg/L			18		
	MS	1506890-76	ND	37.750	40.800	mg/L		92.5		78 - 114	
	MSD	1506890-76	ND	35.650	40.800	mg/L	5.7	87.4	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYE1252						
MBAS	BYE1252-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BYE1302						
MBAS	BYE1302-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BYE1592						
Total Phenolics	BYE1592-BLK1	ND	ug/L	50	10	
QC Batch ID: BYE1669						
Total Phenolics	BYE1669-BLK1	ND	ug/L	50	10	
QC Batch ID: BYE1717						
Total Suspended Solids (Glass Fiber)	BYE1717-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BYE1719						
Total Suspended Solids (Glass Fiber)	BYE1719-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BYE1778						
Biochemical Oxygen Demand - Seeded	BYE1778-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BYE1902						
Total Sulfide	BYE1902-BLK1	ND	mg/L	0.10	0.050	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYE1252										
MBAS	BYE1252-BS1	LCS	0.18000	0.20000	mg/L	90.0		85 - 115		
QC Batch ID: BYE1302										
MBAS	BYE1302-BS1	LCS	0.18000	0.20000	mg/L	90.0		85 - 115		
QC Batch ID: BYE1592										
Total Phenolics	BYE1592-BS1	LCS	467.40	500.00	ug/L	93.5		85 - 115		
QC Batch ID: BYE1669										
Total Phenolics	BYE1669-BS1	LCS	503.50	500.00	ug/L	101		85 - 115		
QC Batch ID: BYE1778										
Biochemical Oxygen Demand - Seeded	BYE1778-BS1	LCS	180.56	198.00	mg/L	91.2		85 - 115		
QC Batch ID: BYE1902										
Total Sulfide	BYE1902-BS1	LCS	0.51671	0.50000	mg/L	103		90 - 110		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYE1252	Used client sample: N										
MBAS	DUP	1511535-02	0.033400	0.033400		mg/L	0		20		J
	MS	1511535-02	0.033400	0.37120	0.40000	mg/L		84.4		80 - 120	
	MSD	1511535-02	0.033400	0.37680	0.40000	mg/L	1.5	85.8	20	80 - 120	
QC Batch ID: BYE1302	Used client sample: Y - Description: M-006, 05/13/2015 12:00										
MBAS	DUP	1511772-05	0.055600	0.055600		mg/L	0		20		J
	MS	1511772-05	0.055600	0.39360	0.40000	mg/L		84.5		80 - 120	
	MSD	1511772-05	0.055600	0.38800	0.40000	mg/L	1.4	83.1	20	80 - 120	
QC Batch ID: BYE1357	Used client sample: Y - Description: M-001, 05/13/2015 09:50										
Turbidity	DUP	1511772-01	0.18100	0.18000		NT Units	0.6		10		
QC Batch ID: BYE1477	Used client sample: Y - Description: M-001, 05/13/2015 09:50										
Settleable Solids	DUP	1511772-01	ND	ND		ml/L			10		
QC Batch ID: BYE1592	Used client sample: N										
Total Phenolics	DUP	**1511150-01RE1**	**8647.2**	**9407.1**		**ug/L**	**8.4**		**20**		
	MS	**1511150-01RE1**	**8647.2**	**10394**	**1000.0**	**ug/L**		**175**		**80 - 120**	**Q03**
	MSD	**1511150-01RE1**	**8647.2**	**10236**	**1000.0**	**ug/L**	**1.5**	**159**	**20**	**80 - 120**	**Q03**
QC Batch ID: BYE1669	Used client sample: N										
Total Phenolics	DUP	1511741-01	924.50	947.72		ug/L	2.5		20		
	MS	1511741-01	924.50	1404.6	500.00	ug/L		96.0		80 - 120	
	MSD	1511741-01	924.50	1399.8	500.00	ug/L	0.3	95.1	20	80 - 120	
QC Batch ID: BYE1717	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1511552-01	1120.0	1150.7		mg/L	2.7		10		
QC Batch ID: BYE1719	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1512069-01	117.00	115.00		mg/L	1.7		10		
QC Batch ID: BYE1778	Used client sample: Y - Description: M-001, 05/13/2015 09:50										
Biochemical Oxygen Demand - Seeded	DUP	1511772-01	ND	ND		mg/L			20		
QC Batch ID: BYE1902	Used client sample: Y - Description: M-001, 05/13/2015 09:50										
Total Sulfide	DUP	1511772-01	ND	ND		mg/L			10		
	MS	1511772-01	ND	0.44326	0.50000	mg/L		88.7		80 - 120	
	MSD	1511772-01	ND	0.44489	0.50000	mg/L	0.4	89.0	10	80 - 120	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 05/26/2015 14:37
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
Q03	Matrix spike recovery(s) is(are) not within the control limits.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Date of Report: 06/19/2015

Tim Nicely

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Client Project:	[none]
BCL Project:	Malibu -NPDES
BCL Work Order:	1514253
Invoice ID:	B206230

Enclosed are the results of analyses for samples received by the laboratory on 6/10/2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Sample Information

Chain of Custody and Cooler Receipt form 4
Laboratory / Client Sample Cross Reference 11

Sample Results

1514253-01 - M001

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625) 13
Total Petroleum Hydrocarbons 16
EPA Method 1664 17
Water Analysis (General Chemistry) 18
Metals Analysis 19

1514253-02 - M002

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625) 20
Total Petroleum Hydrocarbons 23
EPA Method 1664 24
Water Analysis (General Chemistry) 25
Metals Analysis 26

1514253-03 - M003

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625) 27
Total Petroleum Hydrocarbons 30
EPA Method 1664 31
Water Analysis (General Chemistry) 32
Metals Analysis 33

1514253-04 - M004

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625) 34
Total Petroleum Hydrocarbons 37
EPA Method 1664 38
Water Analysis (General Chemistry) 39
Metals Analysis 40

1514253-05 - M005

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625) 41
Total Petroleum Hydrocarbons 44
EPA Method 1664 45
Water Analysis (General Chemistry) 46
Metals Analysis 47

1514253-06 - M006

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625) 48
Total Petroleum Hydrocarbons 51
EPA Method 1664 52
Water Analysis (General Chemistry) 53
Metals Analysis 54

1514253-07 - M007

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625) 55
Total Petroleum Hydrocarbons 58
EPA Method 1664 59
Water Analysis (General Chemistry) 60
Metals Analysis 61

1514253-08 - M008

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625) 62
Total Petroleum Hydrocarbons 65
EPA Method 1664 66
Water Analysis (General Chemistry) 67
Metals Analysis 68

1514253-09 - M009

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625) 69

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Table of Contents

Total Petroleum Hydrocarbons 72
EPA Method 1664 73
Water Analysis (General Chemistry) 74
Metals Analysis 75

1514253-10 - M010

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625) 76
Total Petroleum Hydrocarbons 79
EPA Method 1664 80
Water Analysis (General Chemistry) 81
Metals Analysis 82

1514253-11 - Dup

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625) 83
Total Petroleum Hydrocarbons 86
EPA Method 1664 87
Water Analysis (General Chemistry) 88
Metals Analysis 89

Quality Control Reports

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Method Blank Analysis 90
Laboratory Control Sample 93
Precision and Accuracy 94

Total Petroleum Hydrocarbons

Method Blank Analysis 96
Laboratory Control Sample 97
Precision and Accuracy 98

EPA Method 1664

Method Blank Analysis 99
Laboratory Control Sample 100
Precision and Accuracy 101

Water Analysis (General Chemistry)

Method Blank Analysis 102
Laboratory Control Sample 103
Precision and Accuracy 104

Metals Analysis

Method Blank Analysis 106
Laboratory Control Sample 107
Precision and Accuracy 108

Notes

Notes and Definitions 109

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

15-14253

* Required Fields

TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #:	FAX * #
Fugro Consultants Inc.	Tim Nicely/Nick Simon	805-289-3836	805-650-7010

E-mail: tnicely@fugro.com; nsimon@fugro.com

Address *	City *	State *	Zip *
4820 McGrath Street, Suite 100	Ventura	CA	93003

Project Information: Malibu-NPDES

PO #

BCL Quote #

How would you like your completed results sent? ☑ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Sampler Name Printed / Signature: N. Simon / N. Simon

QC Request: ☑ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ☐ 5 Day** ☐ 2 Day** ☐ 1 Day**

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Regulatory Compliance Electronic Data Transfer: Y ☐ N ☐ System No. *

Matrix Types: RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code
1	10	~~2015~~ 06-10	0955	M001	W	M001
2			1015	M002		M002
3			1040	M003		M003
4			1045	M004		M004
5			1055	M005		M005
6	↓	↓	1240	M006	↓	M006
7	10	06-10	1237	M007	W	M007
8			1315	M008		M008
9			1300	M009		M009
10			1430	M010		M010
DUP	↓	↓	1320	~~M011~~ DUP	↓	DUP

T.S.S. Turbidity, MBAS | Settleable Solids, BOD5 | Oil & Grease (EPA 1664) | Total Sulfides (SM4500-S D) | Phenols (EPA 420.4) | Phthalates | TPH-Diese/Motor Oil | Total Zinc (Zn) | Total&Fecal Coliform(MPN)

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Print Name)	Company
N. Simon	Fugro	6-10	402		BC Labs
	BC Labs	6-10	402		6/10/15 1604
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery:	
		6/10/15	1830	Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material:

Rel 6/10/15 18:30

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1514253 Page 2 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 6

Submission #: 15-14253

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.9 Container: Amber Thermometer ID: 208 Date/Time 6/10/15 1831

Temperature: (A) 1.2 °C / (C) 1.3 °C Analyst Init KLB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	ABC	ABC								
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	D	D								
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	E	E								
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	F	F								
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664	G	G								
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525	H	H								
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M	I	I								
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

SHORT HOLDING TIME OR Cr^{+6} NO_2 NO_3 DO Cl_2 BOD MBAS COD DISTRIBUTION SUB-CUT ☐ CHK BY

Comments:

Sample Numbering Completed By: Date/Time: 6-10-15 1930

A = Actual / C = Corrected

Rev. No. 19 05/06/2015 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 19)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1514253 Page 3 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 6

Submission #: 15-14253

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208

Temperature: (A) 2.1 °C / (C) 2.2 °C

Date/Time 6/10/15 1832

Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES			ABC					ABC		
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz			D					D		
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE			E					E		
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS			F					F		
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664			G					G		
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525			H					H		
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M			I					I		
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:

Sample Numbering Completed By: M Date/Time: 6-10-15 1915

A = Actual / C = Corrected

Rev. No. 19 05/06/2015 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 19]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1514253 Page 4 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 10

Submission #: 15-141253

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 6/10/15 1832

Temperature: (A) 1.5 °C / (C) 1.6 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES				ABC	ABC					
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz				D	D					
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE				E	E					
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS				F	F					
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664				G	G					
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525				H	H					
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M				I	I					
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By:_____ Date/Time: 6.10.15 1955

A = Actual / C = Corrected

Rev. No. 19 05/06/2015 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 19)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1514253 Page 5 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 of 6

Submission #: 15-14253

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 6/10/15 1803

Temperature: (A) 1.6 °C / (C) 1.7 °C Analyst Init KLB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES						A B C	A B C			
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz						D	D			
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE						E	E			
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS						F	F			
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664						G	G			
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525						H	H			
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M						I	I			
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: M Date/Time: 6.10.2015 1950

A = Actual / C = Corrected

Rev. No. 19 05/06/2015 (S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 19)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1514253 Page 6 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 5 Of 6

Submission #: 15-14253

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 6/10/15 1832

Temperature: (A) 1.3 °C / (C) 1.4 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES									ABC	ABC
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz									D	D
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE									E	E
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS									F	F
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664									G	G
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525									H	H
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M									F	F
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: KMB Date/Time: 6/10/15 1957

A = Actual / C = Corrected

Rev. No. 19 05/06/2015 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 19]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Chain of Custody and Cooler Receipt Form for 1514253 Page 7 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 6 Of 6

Submission #: 15-14253

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐	Ice Chest ☒ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 6/10/15 1801

Temperature: (A) 1.1 °C / (C) 1.2 °C Analyst Init KIB

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	ABC									
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	D									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	E									
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS	F									
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664	G									
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525	H									
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 8015M	F									
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
Tedlar Bag										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: KIB Date/Time: 6/10/15 1956

A = Actual / C = Corrected

Rev. No. 19 05/06/2015 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 19]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1514253-01	**COC Number:**	---	**Receive Date:**	06/10/2015 18:30
	Project Number:	---	**Sampling Date:**	06/10/2015 09:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M001	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely/ Nick Simon	**Sample Type:**	Water
1514253-02	**COC Number:**	---	**Receive Date:**	06/10/2015 18:30
	Project Number:	---	**Sampling Date:**	06/10/2015 10:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M002	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely/ Nick Simon	**Sample Type:**	Water
1514253-03	**COC Number:**	---	**Receive Date:**	06/10/2015 18:30
	Project Number:	---	**Sampling Date:**	06/10/2015 10:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M003	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely/ Nick Simon	**Sample Type:**	Water
1514253-04	**COC Number:**	---	**Receive Date:**	06/10/2015 18:30
	Project Number:	---	**Sampling Date:**	06/10/2015 10:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M004	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely/ Nick Simon	**Sample Type:**	Water
1514253-05	**COC Number:**	---	**Receive Date:**	06/10/2015 18:30
	Project Number:	---	**Sampling Date:**	06/10/2015 10:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M005	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely/ Nick Simon	**Sample Type:**	Water
1514253-06	**COC Number:**	---	**Receive Date:**	06/10/2015 18:30
	Project Number:	---	**Sampling Date:**	06/10/2015 12:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M006	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely/ Nick Simon	**Sample Type:**	Water
1514253-07	**COC Number:**	---	**Receive Date:**	06/10/2015 18:30
	Project Number:	---	**Sampling Date:**	06/10/2015 12:37
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M007	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely/ Nick Simon	**Sample Type:**	Water

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1514253-08	**COC Number:**	---	**Receive Date:**	06/10/2015 18:30
	Project Number:	---	**Sampling Date:**	06/10/2015 13:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M008	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely/ Nick Simon	**Sample Type:**	Water
1514253-09	**COC Number:**	---	**Receive Date:**	06/10/2015 18:30
	Project Number:	---	**Sampling Date:**	06/10/2015 13:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M009	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely/ Nick Simon	**Sample Type:**	Water
1514253-10	**COC Number:**	---	**Receive Date:**	06/10/2015 18:30
	Project Number:	---	**Sampling Date:**	06/10/2015 14:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	M010	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely/ Nick Simon	**Sample Type:**	Water
1514253-11	**COC Number:**	---	**Receive Date:**	06/10/2015 18:30
	Project Number:	---	**Sampling Date:**	06/10/2015 13:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Dup	**Lab Matrix:**	Water
	Sampled By:	Tim Nicely/ Nick Simon	**Sample Type:**	Water

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-01 | **Client Sample Name:** M001, 6/10/2015 9:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-625	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-625	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-625	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-625	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-01 | **Client Sample Name:** M001, 6/10/2015 9:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-625	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-625	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-625	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-625	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-625	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-01 | **Client Sample Name:** M001, 6/10/2015 9:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-625	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-625	ND		1
2-Fluorophenol (Surrogate)	49.5	%	30 - 120 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	30.1	%	12 - 110 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	63.0	%	50 - 130 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	79.4	%	55 - 125 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	88.0	%	40 - 150 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	97.7	%	40 - 150 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-625	06/12/15	06/15/15 18:18	VH1	MS-B2	0.980	BYF1302

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

BCL Sample ID: 1514253-01 | **Client Sample Name:** M001, 6/10/2015 9:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	50	15	Luft/FFP	ND		1
TPH - Motor Oil	ND	ug/L	200	110	Luft/FFP	ND		1
Tetracosane (Surrogate)	80.2	%	37 - 134 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	06/12/15	06/15/15 12:36	MWB	GC-2	1	BYF1303

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1514253-01 | **Client Sample Name:** M001, 6/10/2015 9:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	06/15/15	06/15/15 08:30	MAM	MAN-SV	1	BYF1485

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1514253-01 | **Client Sample Name:** M001, 6/10/2015 9:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.29**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.20	0.030	EPA-425.1	ND	A07	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	06/15/15	06/15/15 12:15	OJP	SC-1	1.042	BYF1376
2	EPA-160.5	06/11/15	06/11/15 06:35	HPR	MANUAL	1	BYF1180
3	EPA-180.1	06/11/15	06/11/15 08:00	MC1	MANUAL	1	BYF1101
4	EPA-425.1	06/11/15	06/11/15 08:00	JMN	MANUAL	2	BYF1106
5	EPA-420.4	06/12/15	06/12/15 14:26	TDC	KONE-1	1	BYF1203
6	SM-4500SD	06/16/15	06/16/15 12:15	DIW	SPEC05	1	BYF1483
7	SM17-5210B	06/11/15	06/11/15 07:15	HPR	YSI-57	1.525	BYF1422

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

BCL Sample ID: 1514253-01 | **Client Sample Name:** M001, 6/10/2015 9:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Zinc	**28**	**ug/L**	**50**	**1.3**	**EPA-200.7**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	06/16/15	06/16/15 20:40	JRG	PE-OP2	1	BYF1439

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-02 | **Client Sample Name:** M002, 6/10/2015 10:15:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-625	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-625	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-625	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-625	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-02 | **Client Sample Name:** M002, 6/10/2015 10:15:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-625	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-625	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-625	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-625	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-625	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-02 | **Client Sample Name:** M002, 6/10/2015 10:15:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-625	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-625	ND		1
2-Fluorophenol (Surrogate)	61.4	%	30 - 120 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	40.1	%	12 - 110 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	78.5	%	50 - 130 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	101	%	55 - 125 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	111	%	40 - 150 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	130	%	40 - 150 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-625	06/12/15	06/15/15 18:48	VH1	MS-B2	0.950	BYF1302

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

BCL Sample ID: 1514253-02 | **Client Sample Name:** M002, 6/10/2015 10:15:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	50	15	Luft/FFP	ND		1
TPH - Motor Oil	ND	ug/L	200	110	Luft/FFP	ND		1
Tetracosane (Surrogate)	104	%	37 - 134 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	06/12/15	06/15/15 12:59	MWB	GC-2	0.950	BYF1303

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1514253-02 | **Client Sample Name:** M002, 6/10/2015 10:15:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	06/15/15	06/15/15 08:30	MAM	MAN-SV	1	BYF1485

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1514253-02 | **Client Sample Name:** M002, 6/10/2015 10:15:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.18**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	06/15/15	06/15/15 12:15	OJP	SC-1	1.031	BYF1376
2	EPA-160.5	06/11/15	06/11/15 06:35	HPR	MANUAL	1	BYF1180
3	EPA-180.1	06/11/15	06/11/15 08:00	MC1	MANUAL	1	BYF1101
4	EPA-425.1	06/11/15	06/11/15 08:00	JMN	MANUAL	1	BYF1087
5	EPA-420.4	06/12/15	06/12/15 14:26	TDC	KONE-1	1	BYF1203
6	SM-4500SD	06/16/15	06/16/15 12:15	DIW	SPEC05	1	BYF1483
7	SM17-5210B	06/11/15	06/11/15 07:15	HPR	YSI-57	1.525	BYF1422

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

BCL Sample ID: 1514253-02 | **Client Sample Name:** M002, 6/10/2015 10:15:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Zinc	ND	ug/L	50	1.3	EPA-200.7	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	06/16/15	06/16/15 20:56	JRG	PE-OP2	1	BYF1439

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-03 | **Client Sample Name:** M003, 6/10/2015 10:40:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-625	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-625	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-625	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-625	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-03 | **Client Sample Name:** M003, 6/10/2015 10:40:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-625	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-625	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-625	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-625	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-625	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-03 | **Client Sample Name:** M003, 6/10/2015 10:40:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-625	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-625	ND		1
2-Fluorophenol (Surrogate)	58.5	%	30 - 120 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	41.1	%	12 - 110 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	72.1	%	50 - 130 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	86.4	%	55 - 125 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	105	%	40 - 150 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	96.3	%	40 - 150 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-625	06/12/15	06/15/15 19:17	VH1	MS-B2	0.960	BYF1302

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

BCL Sample ID: 1514253-03 | **Client Sample Name:** M003, 6/10/2015 10:40:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	50	15	Luft/FFP	ND		1
TPH - Motor Oil	ND	ug/L	200	110	Luft/FFP	ND		1
Tetracosane (Surrogate)	93.5	%	37 - 134 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	06/12/15	06/15/15 13:22	MWB	GC-2	0.990	BYF1303

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1514253-03 | **Client Sample Name:** M003, 6/10/2015 10:40:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	06/15/15	06/15/15 08:30	MAM	MAN-SV	1	BYF1485

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1514253-03 | **Client Sample Name:** M003, 6/10/2015 10:40:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.18**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	06/15/15	06/15/15 12:15	OJP	SC-1	1.075	BYF1376
2	EPA-160.5	06/11/15	06/11/15 06:35	HPR	MANUAL	1	BYF1180
3	EPA-180.1	06/11/15	06/11/15 08:00	MC1	MANUAL	1	BYF1101
4	EPA-425.1	06/11/15	06/11/15 08:00	JMN	MANUAL	1	BYF1087
5	EPA-420.4	06/12/15	06/12/15 14:26	TDC	KONE-1	1	BYF1203
6	SM-4500SD	06/16/15	06/16/15 12:15	DIW	SPEC05	1	BYF1483
7	SM17-5210B	06/11/15	06/11/15 07:15	HPR	YSI-57	1.525	BYF1422

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

BCL Sample ID: 1514253-03 | **Client Sample Name:** M003, 6/10/2015 10:40:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Zinc	**3.8**	**ug/L**	**50**	**1.3**	**EPA-200.7**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	06/16/15	06/16/15 21:06	JRG	PE-OP2	1	BYF1439

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-04 | **Client Sample Name:** M004, 6/10/2015 10:45:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-625	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-625	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-625	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-625	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-04 | **Client Sample Name:** M004, 6/10/2015 10:45:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-625	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-625	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-625	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-625	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-625	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-04 | **Client Sample Name:** M004, 6/10/2015 10:45:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-625	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-625	ND		1
2-Fluorophenol (Surrogate)	48.3	%	30 - 120 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	33.2	%	12 - 110 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	73.0	%	50 - 130 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	84.9	%	55 - 125 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	91.0	%	40 - 150 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	103	%	40 - 150 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-625	06/12/15	06/15/15 19:47	VH1	MS-B2	1	BYF1302

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

BCL Sample ID: 1514253-04 | **Client Sample Name:** M004, 6/10/2015 10:45:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	50	15	Luft/FFP	ND		1
TPH - Motor Oil	ND	ug/L	200	110	Luft/FFP	ND		1
Tetracosane (Surrogate)	74.8	%	37 - 134 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	06/12/15	06/15/15 13:44	MWB	GC-2	1	BYF1303

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1514253-04 | **Client Sample Name:** M004, 6/10/2015 10:45:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	06/15/15	06/15/15 08:30	MAM	MAN-SV	1	BYF1485

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1514253-04 | **Client Sample Name:** M004, 6/10/2015 10:45:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.16**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	06/15/15	06/15/15 12:15	OJP	SC-1	1.087	BYF1376
2	EPA-160.5	06/11/15	06/11/15 06:35	HPR	MANUAL	1	BYF1180
3	EPA-180.1	06/11/15	06/11/15 08:00	MC1	MANUAL	1	BYF1101
4	EPA-425.1	06/11/15	06/11/15 08:00	JMN	MANUAL	1	BYF1087
5	EPA-420.4	06/12/15	06/12/15 14:26	TDC	KONE-1	1	BYF1203
6	SM-4500SD	06/16/15	06/16/15 12:15	DIW	SPEC05	1	BYF1483
7	SM17-5210B	06/11/15	06/11/15 07:15	HPR	YSI-57	1.525	BYF1422

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

BCL Sample ID: 1514253-04 | **Client Sample Name:** M004, 6/10/2015 10:45:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Zinc	**2.5**	**ug/L**	**50**	**1.3**	**EPA-200.7**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	06/16/15	06/16/15 21:08	JRG	PE-OP2	1	BYF1439

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-05 | **Client Sample Name:** M005, 6/10/2015 10:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-625	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-625	ND		1
Benzyl alcohol	**3.5**	**ug/L**	**2.0**	**0.34**	**EPA-625**	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-625	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-05 | **Client Sample Name:** M005, 6/10/2015 10:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-625	ND		1
Diethyl phthalate	**2.3**	**ug/L**	**2.0**	**0.33**	**EPA-625**	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-625	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-625	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-625	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-05 | **Client Sample Name:** M005, 6/10/2015 10:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-625	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-625	ND		1
2-Fluorophenol (Surrogate)	51.5	%	30 - 120 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	35.1	%	12 - 110 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	74.6	%	50 - 130 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	90.2	%	55 - 125 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	90.8	%	40 - 150 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	94.2	%	40 - 150 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-625	06/12/15	06/15/15 20:16	VH1	MS-B2	0.980	BYF1302

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

BCL Sample ID: 1514253-05 | **Client Sample Name:** M005, 6/10/2015 10:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**300**	**ug/L**	**50**	**15**	**Luft/FFP**	ND	**A52**	1
TPH - Motor Oil	**530**	**ug/L**	**200**	**110**	**Luft/FFP**	ND	**A57**	1
Tetracosane (Surrogate)	92.5	%	37 - 134 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	06/12/15	06/15/15 14:07	MWB	GC-2	0.990	BYF1303

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1514253-05 | **Client Sample Name:** M005, 6/10/2015 10:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	06/15/15	06/15/15 08:30	MAM	MAN-SV	1	BYF1485

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1514253-05 | **Client Sample Name:** M005, 6/10/2015 10:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**6.4**	**mg/L**	**0.56**	**0.56**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**4.9**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**1.9**	**mg/L**	**0.40**	**0.060**	**EPA-425.1**	ND	**A07**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	**10**	**mg/L**	**2.0**	**2.0**	**SM17-5210B**			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	06/15/15	06/15/15 12:15	OJP	SC-1	1.117	BYF1376
2	EPA-160.5	06/11/15	06/11/15 06:35	HPR	MANUAL	1	BYF1180
3	EPA-180.1	06/11/15	06/11/15 08:00	MC1	MANUAL	1	BYF1101
4	EPA-425.1	06/11/15	06/11/15 08:00	JMN	MANUAL	4	BYF1087
5	EPA-420.4	06/12/15	06/12/15 14:26	TDC	KONE-1	1	BYF1203
6	SM-4500SD	06/16/15	06/16/15 12:15	DIW	SPEC05	1	BYF1483
7	SM17-5210B	06/11/15	06/11/15 07:15	HPR	YSI-57	2.033	BYF1422

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

BCL Sample ID: 1514253-05 | **Client Sample Name:** M005, 6/10/2015 10:55:00AM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Zinc	**22**	**ug/L**	**50**	**1.3**	**EPA-200.7**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	06/16/15	06/16/15 21:11	JRG	PE-OP2	1	BYF1439

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-06 | **Client Sample Name:** M006, 6/10/2015 12:40:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-625	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-625	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-625	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-625	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-06 | **Client Sample Name:** M006, 6/10/2015 12:40:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-625	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-625	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-625	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-625	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-625	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-06 | **Client Sample Name:** M006, 6/10/2015 12:40:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-625	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-625	ND		1
2-Fluorophenol (Surrogate)	58.5	%	30 - 120 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	39.1	%	12 - 110 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	87.1	%	50 - 130 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	97.8	%	55 - 125 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	105	%	40 - 150 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	116	%	40 - 150 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-625	06/12/15	06/15/15 20:46	VH1	MS-B2	1	BYF1302

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

BCL Sample ID: 1514253-06 | **Client Sample Name:** M006, 6/10/2015 12:40:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	50	15	Luft/FFP	ND		1
TPH - Motor Oil	ND	ug/L	200	110	Luft/FFP	ND		1
Tetracosane (Surrogate)	80.1	%	37 - 134 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	06/12/15	06/15/15 14:29	MWB	GC-2	1	BYF1303

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1514253-06 | **Client Sample Name:** M006, 6/10/2015 12:40:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	06/15/15	06/15/15 08:30	MAM	MAN-SV	1	BYF1485

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1514253-06 | **Client Sample Name:** M006, 6/10/2015 12:40:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.74**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.23**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	06/15/15	06/15/15 12:30	OJP	SC-1	1.064	BYF1377
2	EPA-160.5	06/11/15	06/11/15 06:35	HPR	MANUAL	1	BYF1180
3	EPA-180.1	06/11/15	06/11/15 08:00	MC1	MANUAL	1	BYF1101
4	EPA-425.1	06/11/15	06/11/15 08:00	JMN	MANUAL	1	BYF1087
5	EPA-420.4	06/12/15	06/12/15 14:48	TDC	KONE-1	1	BYF1203
6	SM-4500SD	06/16/15	06/16/15 12:15	DIW	SPEC05	1	BYF1483
7	SM17-5210B	06/11/15	06/11/15 07:15	HPR	YSI-57	1.525	BYF1424

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

BCL Sample ID: 1514253-06 | **Client Sample Name:** M006, 6/10/2015 12:40:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Zinc	ND	ug/L	50	1.3	EPA-200.7	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	06/16/15	06/16/15 21:13	JRG	PE-OP2	1	BYF1439

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-07 | **Client Sample Name:** M007, 6/10/2015 12:37:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-625	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-625	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-625	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-625	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-07 | **Client Sample Name:** M007, 6/10/2015 12:37:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-625	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-625	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-625	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-625	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-625	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-07 | **Client Sample Name:** M007, 6/10/2015 12:37:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-625	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-625	ND		1
2-Fluorophenol (Surrogate)	53.6	%	30 - 120 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	34.4	%	12 - 110 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	78.6	%	50 - 130 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	91.8	%	55 - 125 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	96.9	%	40 - 150 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	100	%	40 - 150 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-625	06/12/15	06/15/15 21:15	VH1	MS-B2	0.960	BYF1302

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

BCL Sample ID: 1514253-07 | **Client Sample Name:** M007, 6/10/2015 12:37:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	50	15	Luft/FFP	ND		1
TPH - Motor Oil	ND	ug/L	200	110	Luft/FFP	ND		1
Tetracosane (Surrogate)	102	%	37 - 134 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	06/12/15	06/15/15 16:23	MWB	GC-2	0.980	BYF1303

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1514253-07 | **Client Sample Name:** M007, 6/10/2015 12:37:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	06/15/15	06/15/15 08:30	MAM	MAN-SV	1	BYF1485

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1514253-07 | **Client Sample Name:** M007, 6/10/2015 12:37:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.26**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	06/15/15	06/15/15 12:30	OJP	SC-1	1.042	BYF1377
2	EPA-160.5	06/11/15	06/11/15 06:35	HPR	MANUAL	1	BYF1180
3	EPA-180.1	06/11/15	06/11/15 08:00	MC1	MANUAL	1	BYF1101
4	EPA-425.1	06/11/15	06/11/15 08:00	JMN	MANUAL	1	BYF1087
5	EPA-420.4	06/12/15	06/12/15 14:48	TDC	KONE-1	1	BYF1203
6	SM-4500SD	06/16/15	06/16/15 12:15	DIW	SPEC05	1	BYF1483
7	SM17-5210B	06/11/15	06/11/15 07:15	HPR	YSI-57	1.525	BYF1424

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

BCL Sample ID: 1514253-07 | **Client Sample Name:** M007, 6/10/2015 12:37:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Zinc	**1.3**	**ug/L**	**50**	**1.3**	**EPA-200.7**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	06/16/15	06/16/15 21:16	JRG	PE-OP2	1	BYF1439

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-08 | **Client Sample Name:** M008, 6/10/2015 1:15:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-625	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-625	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-625	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-625	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-08 | **Client Sample Name:** M008, 6/10/2015 1:15:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-625	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-625	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-625	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-625	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-625	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-08 | **Client Sample Name:** M008, 6/10/2015 1:15:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-625	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-625	ND		1
2-Fluorophenol (Surrogate)	44.9	%	30 - 120 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	27.0	%	12 - 110 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	73.7	%	50 - 130 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	80.3	%	55 - 125 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	85.7	%	40 - 150 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	86.4	%	40 - 150 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-625	06/12/15	06/15/15 21:45	VH1	MS-B2	1	BYF1302

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

BCL Sample ID: 1514253-08 | **Client Sample Name:** M008, 6/10/2015 1:15:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	50	15	Luft/FFP	ND		1
TPH - Motor Oil	ND	ug/L	200	110	Luft/FFP	ND		1
Tetracosane (Surrogate)	80.5	%	37 - 134 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	06/12/15	06/15/15 16:46	MWB	GC-2	0.980	BYF1303

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1514253-08 | **Client Sample Name:** M008, 6/10/2015 1:15:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	06/15/15	06/15/15 08:30	MAM	MAN-SV	1	BYF1485

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1514253-08 | **Client Sample Name:** M008, 6/10/2015 1:15:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.18**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	06/15/15	06/15/15 12:30	OJP	SC-1	1.031	BYF1377
2	EPA-160.5	06/11/15	06/11/15 06:35	HPR	MANUAL	1	BYF1180
3	EPA-180.1	06/11/15	06/11/15 08:00	MC1	MANUAL	1	BYF1102
4	EPA-425.1	06/11/15	06/11/15 08:00	JMN	MANUAL	1	BYF1087
5	EPA-420.4	06/12/15	06/12/15 14:48	TDC	KONE-1	1	BYF1203
6	SM-4500SD	06/16/15	06/16/15 12:15	DIW	SPEC05	1	BYF1483
7	SM17-5210B	06/11/15	06/11/15 07:15	HPR	YSI-57	1.525	BYF1424

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

BCL Sample ID: 1514253-08 | **Client Sample Name:** M008, 6/10/2015 1:15:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Zinc	**30**	**ug/L**	**50**	**1.3**	**EPA-200.7**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	06/16/15	06/16/15 21:18	JRG	PE-OP2	1	BYF1439

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-09 | **Client Sample Name:** M009, 6/10/2015 1:00:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-625	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-625	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-625	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-625	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-09 | **Client Sample Name:** M009, 6/10/2015 1:00:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-625	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-625	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-625	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-625	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-625	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-09 | **Client Sample Name:** M009, 6/10/2015 1:00:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-625	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-625	ND		1
2-Fluorophenol (Surrogate)	54.2	%	30 - 120 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	32.8	%	12 - 110 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	71.1	%	50 - 130 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	86.3	%	55 - 125 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	94.1	%	40 - 150 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	104	%	40 - 150 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-625	06/12/15	06/15/15 22:14	VH1	MS-B2	0.970	BYF1302

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

BCL Sample ID: 1514253-09 | **Client Sample Name:** M009, 6/10/2015 1:00:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	50	15	Luft/FFP	ND		1
TPH - Motor Oil	ND	ug/L	200	110	Luft/FFP	ND		1
Tetracosane (Surrogate)	95.1	%	37 - 134 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	06/12/15	06/15/15 17:08	MWB	GC-2	0.960	BYF1303

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1514253-09 | **Client Sample Name:** M009, 6/10/2015 1:00:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	06/15/15	06/15/15 08:30	MAM	MAN-SV	1	BYF1485

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1514253-09 | **Client Sample Name:** M009, 6/10/2015 1:00:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	ND	mg/L	0.50	0.50	EPA-160.2	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.11**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	ND	mg/L	0.10	0.015	EPA-425.1	ND		4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	06/15/15	06/15/15 12:30	OJP	SC-1	1.031	BYF1377
2	EPA-160.5	06/11/15	06/11/15 06:35	HPR	MANUAL	1	BYF1180
3	EPA-180.1	06/11/15	06/11/15 08:00	MC1	MANUAL	1	BYF1102
4	EPA-425.1	06/11/15	06/11/15 08:00	JMN	MANUAL	1	BYF1087
5	EPA-420.4	06/12/15	06/12/15 14:48	TDC	KONE-1	1	BYF1203
6	SM-4500SD	06/16/15	06/16/15 12:15	DIW	SPEC05	1	BYF1483
7	SM17-5210B	06/11/15	06/11/15 07:15	HPR	YSI-57	1.525	BYF1424

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

BCL Sample ID: 1514253-09 | **Client Sample Name:** M009, 6/10/2015 1:00:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Zinc	ND	ug/L	50	1.3	EPA-200.7	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	06/16/15	06/16/15 21:21	JRG	PE-OP2	1	BYF1439

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-10 | **Client Sample Name:** M010, 6/10/2015 2:30:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-625	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-625	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-625	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-625	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-10 | **Client Sample Name:** M010, 6/10/2015 2:30:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-625	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-625	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-625	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-625	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-625	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-10 | **Client Sample Name:** M010, 6/10/2015 2:30:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-625	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-625	ND		1
2-Fluorophenol (Surrogate)	42.3	%	30 - 120 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	28.8	%	12 - 110 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	60.0	%	50 - 130 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	69.4	%	55 - 125 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	70.8	%	40 - 150 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	80.0	%	40 - 150 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-625	06/12/15	06/15/15 22:43	VH1	MS-B2	1	BYF1302

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

BCL Sample ID: 1514253-10 | **Client Sample Name:** M010, 6/10/2015 2:30:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**48**	**ug/L**	**50**	**15**	**Luft/FFP**	ND	**J,A52**	1
TPH - Motor Oil	ND	ug/L	200	110	Luft/FFP	ND		1
Tetracosane (Surrogate)	89.7	%	37 - 134 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	06/12/15	06/15/15 17:31	MWB	GC-2	0.980	BYF1303

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1514253-10 | **Client Sample Name:** M010, 6/10/2015 2:30:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	06/15/15	06/15/15 08:30	MAM	MAN-SV	1	BYF1485

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1514253-10 | **Client Sample Name:** M010, 6/10/2015 2:30:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**2.6**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.77**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.065**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	ND	mg/L	1.5	1.5	SM17-5210B			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	06/15/15	06/15/15 12:30	OJP	SC-1	1.031	BYF1377
2	EPA-160.5	06/11/15	06/11/15 06:35	HPR	MANUAL	1	BYF1180
3	EPA-180.1	06/11/15	06/11/15 08:00	MC1	MANUAL	1	BYF1102
4	EPA-425.1	06/11/15	06/11/15 08:00	JMN	MANUAL	1	BYF1087
5	EPA-420.4	06/12/15	06/12/15 14:48	TDC	KONE-1	1	BYF1203
6	SM-4500SD	06/16/15	06/16/15 12:15	DIW	SPEC05	1	BYF1483
7	SM17-5210B	06/11/15	06/11/15 07:15	HPR	YSI-57	1.525	BYF1424

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

BCL Sample ID: 1514253-10 | **Client Sample Name:** M010, 6/10/2015 2:30:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Zinc	**15**	**ug/L**	**50**	**1.3**	**EPA-200.7**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	06/16/15	06/16/15 21:24	JRG	PE-OP2	1	BYF1439

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-11 | **Client Sample Name:** Dup, 6/10/2015 1:20:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-625	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-625	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-625	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-625	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-625	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-625	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-625	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-625	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-625	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-625	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-625	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-625	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-625	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-625	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-625	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	3.0	EPA-625	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-625	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-625	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-625	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-625	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-625	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-625	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-625	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-625	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-625	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-11 | **Client Sample Name:** Dup, 6/10/2015 1:20:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-625	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-625	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-625	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-625	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-625	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-625	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-625	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-625	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-625	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-625	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-625	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-625	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-625	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-625	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-625	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-625	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-625	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-625	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-625	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-625	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-625	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-625	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-625	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-625	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-625	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-625	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-625	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-625	ND		1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

BCL Sample ID: 1514253-11 | **Client Sample Name:** Dup, 6/10/2015 1:20:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-625	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-625	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-625	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-625	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-625	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-625	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-625	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-625	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-625	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-625	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-625	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-625	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-625	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-625	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-625	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-625	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-625	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-625	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-625	ND		1
2-Fluorophenol (Surrogate)	42.9	%	30 - 120 (LCL - UCL)		EPA-625			1
Phenol-d5 (Surrogate)	26.6	%	12 - 110 (LCL - UCL)		EPA-625			1
Nitrobenzene-d5 (Surrogate)	69.4	%	50 - 130 (LCL - UCL)		EPA-625			1
2-Fluorobiphenyl (Surrogate)	84.0	%	55 - 125 (LCL - UCL)		EPA-625			1
2,4,6-Tribromophenol (Surrogate)	81.8	%	40 - 150 (LCL - UCL)		EPA-625			1
p-Terphenyl-d14 (Surrogate)	89.5	%	40 - 150 (LCL - UCL)		EPA-625			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-625	06/12/15	06/15/15 23:12	VH1	MS-B2	0.970	BYF1302

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

BCL Sample ID: 1514253-11 | **Client Sample Name:** Dup, 6/10/2015 1:20:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	50	15	Luft/FFP	ND		1
TPH - Motor Oil	ND	ug/L	200	110	Luft/FFP	ND		1
Tetracosane (Surrogate)	79.4	%	37 - 134 (LCL - UCL)		Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	06/12/15	06/15/15 17:54	MWB	GC-2	0.960	BYF1303

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

BCL Sample ID: 1514253-11 | **Client Sample Name:** Dup, 6/10/2015 1:20:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664A HEM	06/15/15	06/15/15 08:30	MAM	MAN-SV	1	BYF1485

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

BCL Sample ID: 1514253-11 | **Client Sample Name:** Dup, 6/10/2015 1:20:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Suspended Solids (Glass Fiber)	**0.50**	**mg/L**	**0.50**	**0.50**	**EPA-160.2**	ND		1
Settleable Solids	ND	ml/L	0.10	0.10	EPA-160.5			2
Turbidity	**0.45**	**NT Units**	**0.10**	**0.10**	**EPA-180.1**			3
MBAS	**0.017**	**mg/L**	**0.10**	**0.015**	**EPA-425.1**	ND	**J**	4
Total Phenolics	ND	ug/L	50	10	EPA-420.4	ND		5
Total Sulfide	ND	mg/L	0.10	0.050	SM-4500SD	ND		6
Biochemical Oxygen Demand - Seeded	**1.8**	**mg/L**	**1.5**	**1.5**	**SM17-5210B**			7

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-160.2	06/15/15	06/15/15 12:30	OJP	SC-1	1	BYF1377
2	EPA-160.5	06/12/15	06/12/15 06:50	HPR	MANUAL	1	BYF1188
3	EPA-180.1	06/11/15	06/11/15 08:00	MC1	MANUAL	1	BYF1102
4	EPA-425.1	06/11/15	06/11/15 12:30	JMN	MANUAL	1	BYF1106
5	EPA-420.4	06/15/15	06/15/15 14:34	TDC	KONE-1	1	BYF1323
6	SM-4500SD	06/16/15	06/16/15 12:15	DIW	SPEC05	1	BYF1484
7	SM17-5210B	06/12/15	06/12/15 07:20	HPR	YSI-57	1.525	BYF1577

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

BCL Sample ID: 1514253-11 | **Client Sample Name:** Dup, 6/10/2015 1:20:00PM, Tim Nicely/ Nick Simon

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Zinc	**110**	**ug/L**	**50**	**1.3**	**EPA-200.7**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	06/15/15	06/16/15 13:04	JRG	PE-OP2	1	BYF1440

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYF1302						
Acenaphthene	BYF1302-BLK1	ND	ug/L	2.0	0.24	
Acenaphthylene	BYF1302-BLK1	ND	ug/L	2.0	0.28	
Aldrin	BYF1302-BLK1	ND	ug/L	2.0	0.35	
Aniline	BYF1302-BLK1	ND	ug/L	5.0	0.69	
Anthracene	BYF1302-BLK1	ND	ug/L	2.0	0.30	
Benzidine	BYF1302-BLK1	ND	ug/L	20	7.1	
Benzo[a]anthracene	BYF1302-BLK1	ND	ug/L	2.0	0.38	
Benzo[b]fluoranthene	BYF1302-BLK1	ND	ug/L	2.0	0.41	
Benzo[k]fluoranthene	BYF1302-BLK1	ND	ug/L	2.0	0.31	
Benzo[a]pyrene	BYF1302-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	BYF1302-BLK1	ND	ug/L	2.0	0.22	
Benzoic acid	BYF1302-BLK1	ND	ug/L	10	5.8	
Benzyl alcohol	BYF1302-BLK1	ND	ug/L	2.0	0.34	
Benzyl butyl phthalate	BYF1302-BLK1	ND	ug/L	2.0	0.47	
alpha-BHC	BYF1302-BLK1	ND	ug/L	2.0	0.27	
beta-BHC	BYF1302-BLK1	ND	ug/L	2.0	0.27	
delta-BHC	BYF1302-BLK1	ND	ug/L	2.0	0.30	
gamma-BHC (Lindane)	BYF1302-BLK1	ND	ug/L	2.0	0.22	
bis(2-Chloroethoxy)methane	BYF1302-BLK1	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	BYF1302-BLK1	ND	ug/L	2.0	0.68	
bis(2-Chloroisopropyl)ether	BYF1302-BLK1	ND	ug/L	2.0	0.30	
bis(2-Ethylhexyl)phthalate	BYF1302-BLK1	ND	ug/L	5.0	3.0	
4-Bromophenyl phenyl ether	BYF1302-BLK1	ND	ug/L	2.0	0.23	
4-Chloroaniline	BYF1302-BLK1	ND	ug/L	2.0	0.69	
2-Chloronaphthalene	BYF1302-BLK1	ND	ug/L	2.0	0.34	
4-Chlorophenyl phenyl ether	BYF1302-BLK1	ND	ug/L	2.0	0.23	
Chrysene	BYF1302-BLK1	ND	ug/L	2.0	0.63	
4,4'-DDD	BYF1302-BLK1	ND	ug/L	2.0	0.48	
4,4'-DDE	BYF1302-BLK1	ND	ug/L	3.0	0.41	
4,4'-DDT	BYF1302-BLK1	ND	ug/L	2.0	0.43	
Dibenzo[a,h]anthracene	BYF1302-BLK1	ND	ug/L	3.0	0.26	
Dibenzofuran	BYF1302-BLK1	ND	ug/L	2.0	0.21	
1,2-Dichlorobenzene	BYF1302-BLK1	ND	ug/L	2.0	0.37	
1,3-Dichlorobenzene	BYF1302-BLK1	ND	ug/L	2.0	0.35	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYF1302						
1,4-Dichlorobenzene	BYF1302-BLK1	ND	ug/L	2.0	0.31	
3,3-Dichlorobenzidine	BYF1302-BLK1	ND	ug/L	10	8.2	
Dieldrin	BYF1302-BLK1	ND	ug/L	3.0	0.41	
Diethyl phthalate	BYF1302-BLK1	ND	ug/L	2.0	0.33	
Dimethyl phthalate	BYF1302-BLK1	ND	ug/L	2.0	0.39	
Di-n-butyl phthalate	BYF1302-BLK1	ND	ug/L	2.0	0.39	
2,4-Dinitrotoluene	BYF1302-BLK1	ND	ug/L	2.0	0.26	
2,6-Dinitrotoluene	BYF1302-BLK1	ND	ug/L	2.0	0.41	
Di-n-octyl phthalate	BYF1302-BLK1	ND	ug/L	2.0	0.46	
1,2-Diphenylhydrazine	BYF1302-BLK1	ND	ug/L	2.0	0.34	
Endosulfan I	BYF1302-BLK1	ND	ug/L	10	1.7	
Endosulfan II	BYF1302-BLK1	ND	ug/L	10	1.2	
Endosulfan sulfate	BYF1302-BLK1	ND	ug/L	3.0	0.58	
Endrin	BYF1302-BLK1	ND	ug/L	2.0	1.1	
Endrin aldehyde	BYF1302-BLK1	ND	ug/L	10	0.52	
Fluoranthene	BYF1302-BLK1	ND	ug/L	2.0	0.20	
Fluorene	BYF1302-BLK1	ND	ug/L	2.0	0.28	
Heptachlor	BYF1302-BLK1	ND	ug/L	2.0	0.32	
Heptachlor epoxide	BYF1302-BLK1	ND	ug/L	2.0	0.27	
Hexachlorobenzene	BYF1302-BLK1	ND	ug/L	2.0	0.20	
Hexachlorobutadiene	BYF1302-BLK1	ND	ug/L	2.0	0.24	
Hexachlorocyclopentadiene	BYF1302-BLK1	ND	ug/L	2.0	0.30	
Hexachloroethane	BYF1302-BLK1	ND	ug/L	2.0	0.32	
Indeno[1,2,3-cd]pyrene	BYF1302-BLK1	ND	ug/L	2.0	0.26	
Isophorone	BYF1302-BLK1	ND	ug/L	2.0	0.31	
2-Methylnaphthalene	BYF1302-BLK1	ND	ug/L	2.0	0.28	
Naphthalene	BYF1302-BLK1	ND	ug/L	2.0	0.21	
2-Naphthylamine	BYF1302-BLK1	ND	ug/L	20	4.8	
2-Nitroaniline	BYF1302-BLK1	ND	ug/L	2.0	0.33	
3-Nitroaniline	BYF1302-BLK1	ND	ug/L	2.0	0.66	
4-Nitroaniline	BYF1302-BLK1	ND	ug/L	5.0	0.87	
Nitrobenzene	BYF1302-BLK1	ND	ug/L	2.0	0.26	
N-Nitrosodimethylamine	BYF1302-BLK1	ND	ug/L	2.0	0.61	
N-Nitrosodi-N-propylamine	BYF1302-BLK1	ND	ug/L	2.0	1.3	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYF1302						
N-Nitrosodiphenylamine	BYF1302-BLK1	ND	ug/L	2.0	0.44	
Phenanthrene	BYF1302-BLK1	ND	ug/L	2.0	0.20	
Pyrene	BYF1302-BLK1	ND	ug/L	2.0	0.26	
1,2,4-Trichlorobenzene	BYF1302-BLK1	ND	ug/L	2.0	0.27	
4-Chloro-3-methylphenol	BYF1302-BLK1	ND	ug/L	5.0	0.40	
2-Chlorophenol	BYF1302-BLK1	ND	ug/L	2.0	0.37	
2,4-Dichlorophenol	BYF1302-BLK1	ND	ug/L	2.0	0.43	
2,4-Dimethylphenol	BYF1302-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	BYF1302-BLK1	ND	ug/L	10	0.34	
2,4-Dinitrophenol	BYF1302-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	BYF1302-BLK1	ND	ug/L	2.0	1.0	
3- & 4-Methylphenol	BYF1302-BLK1	ND	ug/L	2.0	1.6	
2-Nitrophenol	BYF1302-BLK1	ND	ug/L	2.0	0.28	
4-Nitrophenol	BYF1302-BLK1	ND	ug/L	2.0	0.73	
Pentachlorophenol	BYF1302-BLK1	ND	ug/L	10	0.79	
Phenol	BYF1302-BLK1	ND	ug/L	2.0	0.20	
2,4,5-Trichlorophenol	BYF1302-BLK1	ND	ug/L	5.0	0.31	
2,4,6-Trichlorophenol	BYF1302-BLK1	ND	ug/L	5.0	0.60	
2-Fluorophenol (Surrogate)	**BYF1302-BLK1**	**50.9**	%	**30 - 120 (LCL - UCL)**		
Phenol-d5 (Surrogate)	**BYF1302-BLK1**	**26.3**	%	**12 - 110 (LCL - UCL)**		
Nitrobenzene-d5 (Surrogate)	**BYF1302-BLK1**	**64.0**	%	**50 - 130 (LCL - UCL)**		
2-Fluorobiphenyl (Surrogate)	**BYF1302-BLK1**	**80.5**	%	**55 - 125 (LCL - UCL)**		
2,4,6-Tribromophenol (Surrogate)	**BYF1302-BLK1**	**93.2**	%	**40 - 150 (LCL - UCL)**		
p-Terphenyl-d14 (Surrogate)	**BYF1302-BLK1**	**103**	%	**40 - 150 (LCL - UCL)**		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYF1302										
Acenaphthene	BYF1302-BS1	LCS	51.272	50.000	ug/L	103		50 - 120		
1,4-Dichlorobenzene	BYF1302-BS1	LCS	50.378	50.000	ug/L	101		50 - 120		
2,4-Dinitrotoluene	BYF1302-BS1	LCS	66.557	50.000	ug/L	133		50 - 120		L01
Hexachlorobenzene	BYF1302-BS1	LCS	33.582	40.000	ug/L	84.0		60 - 120		
Hexachlorobutadiene	BYF1302-BS1	LCS	37.440	50.000	ug/L	74.9		40 - 110		
Hexachloroethane	BYF1302-BS1	LCS	41.734	50.000	ug/L	83.5		40 - 120		
Nitrobenzene	BYF1302-BS1	LCS	48.621	50.000	ug/L	97.2		50 - 120		
N-Nitrosodi-N-propylamine	BYF1302-BS1	LCS	47.510	50.000	ug/L	95.0		50 - 120		
Pyrene	BYF1302-BS1	LCS	64.258	50.000	ug/L	129		40 - 140		
1,2,4-Trichlorobenzene	BYF1302-BS1	LCS	45.163	50.000	ug/L	90.3		45 - 120		
4-Chloro-3-methylphenol	BYF1302-BS1	LCS	57.950	50.000	ug/L	116		50 - 120		
2-Chlorophenol	BYF1302-BS1	LCS	53.751	50.000	ug/L	108		50 - 120		
2-Methylphenol	BYF1302-BS1	LCS	52.640	50.000	ug/L	105		40 - 110		
3- & 4-Methylphenol	BYF1302-BS1	LCS	95.855	100.00	ug/L	95.9		40 - 110		
4-Nitrophenol	BYF1302-BS1	LCS	23.560	50.000	ug/L	47.1		10 - 110		
Pentachlorophenol	BYF1302-BS1	LCS	61.722	40.000	ug/L	154		30 - 120		L01
Phenol	BYF1302-BS1	LCS	25.574	50.000	ug/L	51.1		20 - 110		
2,4,6-Trichlorophenol	BYF1302-BS1	LCS	52.269	50.000	ug/L	105		54 - 120		
2-Fluorophenol (Surrogate)	BYF1302-BS1	LCS	54.026	80.000	ug/L	67.5		30 - 120		
Phenol-d5 (Surrogate)	BYF1302-BS1	LCS	36.613	100.00	ug/L	36.6		12 - 110		
Nitrobenzene-d5 (Surrogate)	BYF1302-BS1	LCS	82.964	100.00	ug/L	83.0		50 - 130		
2-Fluorobiphenyl (Surrogate)	BYF1302-BS1	LCS	73.758	80.000	ug/L	92.2		55 - 125		
2,4,6-Tribromophenol (Surrogate)	BYF1302-BS1	LCS	93.480	80.000	ug/L	117		40 - 150		
p-Terphenyl-d14 (Surrogate)	BYF1302-BS1	LCS	45.201	40.000	ug/L	113		40 - 150		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYF1302	Used client sample: N										
Acenaphthene	MS	1511019-90	ND	48.064	50.000	ug/L		96.1		50 - 120	
	MSD	1511019-90	ND	50.777	50.000	ug/L	5.5	102	30	50 - 120	
1,4-Dichlorobenzene	MS	**1511019-90**	**ND**	**33.333**	**50.000**	**ug/L**		**66.7**		**47 - 120**	
	MSD	**1511019-90**	**ND**	**45.441**	**50.000**	**ug/L**	**30.7**	**90.9**	**30**	**47 - 120**	**Q02**
2,4-Dinitrotoluene	MS	**1511019-90**	**ND**	**74.418**	**50.000**	**ug/L**		**149**		**50 - 130**	**Q03**
	MSD	**1511019-90**	**ND**	**63.093**	**50.000**	**ug/L**	**16.5**	**126**	**30**	**50 - 130**	
Hexachlorobenzene	MS	1511019-90	ND	33.116	40.000	ug/L		82.8		62 - 120	
	MSD	1511019-90	ND	32.522	40.000	ug/L	1.8	81.3	30	62 - 120	
Hexachlorobutadiene	MS	**1511019-90**	**ND**	**18.097**	**50.000**	**ug/L**		**36.2**		**40 - 110**	**Q03**
	MSD	**1511019-90**	**ND**	**32.343**	**50.000**	**ug/L**	**56.5**	**64.7**	**30**	**40 - 110**	**Q02**
Hexachloroethane	MS	**1511019-90**	**ND**	**22.909**	**50.000**	**ug/L**		**45.8**		**40 - 120**	
	MSD	**1511019-90**	**ND**	**37.274**	**50.000**	**ug/L**	**47.7**	**74.5**	**30**	**40 - 120**	**Q02**
Nitrobenzene	MS	1511019-90	ND	40.996	50.000	ug/L		82.0		50 - 120	
	MSD	1511019-90	ND	45.055	50.000	ug/L	9.4	90.1	30	50 - 120	
N-Nitrosodi-N-propylamine	MS	1511019-90	ND	37.788	50.000	ug/L		75.6		50 - 120	
	MSD	1511019-90	ND	44.421	50.000	ug/L	16.1	88.8	30	50 - 120	
Pyrene	MS	**1511019-90**	**ND**	**29.779**	**50.000**	**ug/L**		**59.6**		**40 - 140**	
	MSD	**1511019-90**	**ND**	**59.578**	**50.000**	**ug/L**	**66.7**	**119**	**30**	**40 - 140**	**Q02**
1,2,4-Trichlorobenzene	MS	1511019-90	ND	31.502	50.000	ug/L		63.0		43 - 120	
	MSD	1511019-90	ND	41.600	50.000	ug/L	27.6	83.2	30	43 - 120	
4-Chloro-3-methylphenol	MS	1511019-90	ND	45.174	50.000	ug/L		90.3		50 - 120	
	MSD	1511019-90	ND	53.430	50.000	ug/L	16.7	107	30	50 - 120	
2-Chlorophenol	MS	1511019-90	ND	45.243	50.000	ug/L		90.5		50 - 120	
	MSD	1511019-90	ND	50.233	50.000	ug/L	10.5	100	30	50 - 120	
2-Methylphenol	MS	1511019-90	ND	41.699	50.000	ug/L		83.4		40 - 110	
	MSD	1511019-90	ND	49.183	50.000	ug/L	16.5	98.4	30	40 - 110	
3- & 4-Methylphenol	MS	1511019-90	ND	70.963	100.00	ug/L		71.0		40 - 110	
	MSD	1511019-90	ND	88.942	100.00	ug/L	22.5	88.9	30	40 - 110	
4-Nitrophenol	MS	1511019-90	ND	24.780	50.000	ug/L		49.6		10 - 110	
	MSD	1511019-90	ND	22.275	50.000	ug/L	10.6	44.6	30	10 - 110	
Pentachlorophenol	MS	**1511019-90**	**ND**	**62.657**	**40.000**	**ug/L**		**157**		**30 - 120**	**Q03**
	MSD	**1511019-90**	**ND**	**57.539**	**40.000**	**ug/L**	**8.5**	**144**	**30**	**30 - 120**	**Q03**
Phenol	MS	1511019-90	ND	19.384	50.000	ug/L		38.8		20 - 110	
	MSD	1511019-90	ND	23.849	50.000	ug/L	20.7	47.7	30	20 - 110	
2,4,6-Trichlorophenol	MS	1511019-90	ND	59.440	50.000	ug/L		119		50 - 120	
	MSD	1511019-90	ND	50.856	50.000	ug/L	15.6	102	30	50 - 120	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Base Neutral and Acid Extractables Organic Analysis (EPA Method 625)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYF1302	Used client sample: N										
2-Fluorophenol (Surrogate)	MS	1511019-90	ND	45.312	80.000	ug/L		56.6		30 - 120	
	MSD	1511019-90	ND	50.668	80.000	ug/L	11.2	63.3		30 - 120	
Phenol-d5 (Surrogate)	MS	1511019-90	ND	26.482	100.00	ug/L		26.5		12 - 110	
	MSD	1511019-90	ND	34.006	100.00	ug/L	24.9	34.0		12 - 110	
Nitrobenzene-d5 (Surrogate)	MS	1511019-90	ND	72.814	100.00	ug/L		72.8		50 - 130	
	MSD	1511019-90	ND	79.319	100.00	ug/L	8.6	79.3		50 - 130	
2-Fluorobiphenyl (Surrogate)	MS	1511019-90	ND	88.803	80.000	ug/L		111		55 - 125	
	MSD	1511019-90	ND	75.280	80.000	ug/L	16.5	94.1		55 - 125	
2,4,6-Tribromophenol (Surrogate)	MS	1511019-90	ND	96.703	80.000	ug/L		121		40 - 150	
	MSD	1511019-90	ND	92.793	80.000	ug/L	4.1	116		40 - 150	
p-Terphenyl-d14 (Surrogate)	MS	**1511019-90**	**ND**	**69.409**	**40.000**	**ug/L**		**174**		**40 - 150**	**S09**
	MSD	**1511019-90**	**ND**	**43.045**	**40.000**	**ug/L**	**46.9**	**108**		**40 - 150**	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYF1303						
TPH - Diesel (FFP)	BYF1303-BLK1	ND	ug/L	50	15	
TPH - Motor Oil	BYF1303-BLK1	ND	ug/L	200	110	
Tetracosane (Surrogate)	**BYF1303-BLK1**	**75.4**	%	**37 - 134 (LCL - UCL)**		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYF1303										
TPH - Diesel (FFP)	BYF1303-BS1	LCS	483.97	500.00	ug/L	96.8		52 - 128		
Tetracosane (Surrogate)	BYF1303-BS1	LCS	17.434	20.000	ug/L	87.2		37 - 134		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYF1303	Used client sample: N										
TPH - Diesel (FFP)	MS	1513811-06	ND	389.00	500.00	ug/L		77.8		50 - 127	
	MSD	1513811-06	ND	461.41	500.00	ug/L	17.0	92.3	24	50 - 127	
Tetracosane (Surrogate)	MS	1513811-06	ND	15.811	20.000	ug/L		79.1		37 - 134	
	MSD	1513811-06	ND	15.551	20.000	ug/L	1.7	77.8		37 - 134	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYF1485						
Oil and Grease	BYF1485-BLK1	ND	mg/L	5.0	1.7	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYF1485										
Oil and Grease	BYF1485-BS1	LCS	38.650	39.900	mg/L	96.9		78 - 114		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYF1485	Used client sample: N										
Oil and Grease	DUP	1511019-52	ND	ND		mg/L			18		
	MS	1511019-52	ND	38.200	39.900	mg/L		95.7		78 - 114	
	MSD	1511019-52	ND	39.000	39.900	mg/L	2.1	97.7	18	78 - 114	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYF1087						
MBAS	BYF1087-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BYF1106						
MBAS	BYF1106-BLK1	ND	mg/L	0.10	0.015	
QC Batch ID: BYF1203						
Total Phenolics	BYF1203-BLK1	ND	ug/L	50	10	
QC Batch ID: BYF1323						
Total Phenolics	BYF1323-BLK1	ND	ug/L	50	10	
QC Batch ID: BYF1376						
Total Suspended Solids (Glass Fiber)	BYF1376-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BYF1377						
Total Suspended Solids (Glass Fiber)	BYF1377-BLK1	ND	mg/L	0.50	0.50	
QC Batch ID: BYF1422						
Biochemical Oxygen Demand - Seeded	BYF1422-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BYF1424						
Biochemical Oxygen Demand - Seeded	BYF1424-BLK1	ND	mg/L	1.0	1.0	
QC Batch ID: BYF1483						
Total Sulfide	BYF1483-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BYF1484						
Total Sulfide	BYF1484-BLK1	ND	mg/L	0.10	0.050	
QC Batch ID: BYF1577						
Biochemical Oxygen Demand - Seeded	BYF1577-BLK1	ND	mg/L	1.0	1.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYF1087										
MBAS	BYF1087-BS1	LCS	0.20920	0.20000	mg/L	105		85 - 115		
QC Batch ID: BYF1106										
MBAS	BYF1106-BS1	LCS	0.20920	0.20000	mg/L	105		85 - 115		
QC Batch ID: BYF1203										
Total Phenolics	BYF1203-BS1	LCS	476.66	500.00	ug/L	95.3		85 - 115		
QC Batch ID: BYF1323										
Total Phenolics	BYF1323-BS1	LCS	469.82	500.00	ug/L	94.0		85 - 115		
QC Batch ID: BYF1422										
Biochemical Oxygen Demand - Seeded	BYF1422-BS1	LCS	189.48	198.00	mg/L	95.7		85 - 115		
QC Batch ID: BYF1424										
Biochemical Oxygen Demand - Seeded	BYF1424-BS1	LCS	189.48	198.00	mg/L	95.7		85 - 115		
QC Batch ID: BYF1483										
Total Sulfide	BYF1483-BS1	LCS	0.52011	0.50000	mg/L	104		90 - 110		
QC Batch ID: BYF1484										
Total Sulfide	BYF1484-BS1	LCS	0.52011	0.50000	mg/L	104		90 - 110		
QC Batch ID: BYF1577										
Biochemical Oxygen Demand - Seeded	BYF1577-BS1	LCS	179.95	198.00	mg/L	90.9		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYF1087	Used client sample: N										
MBAS	DUP	1514028-01	ND	ND		mg/L			20		
	MS	1514028-01	ND	0.42340	0.40000	mg/L		106		80 - 120	
	MSD	1514028-01	ND	0.43320	0.40000	mg/L	2.3	108	20	80 - 120	
QC Batch ID: BYF1101	Used client sample: N										
Turbidity	DUP	1514148-01	47.000	47.000		NT Units	0		10		
QC Batch ID: BYF1102	Used client sample: N										
Turbidity	DUP	1514256-01	5.7900	5.8000		NT Units	0.2		10		
QC Batch ID: BYF1106	Used client sample: Y - Description: M001, 06/10/2015 09:55										
MBAS	DUP	1514253-01	ND	ND		mg/L			20		
	MS	1514253-01	ND	0.44800	0.40000	mg/L		112		80 - 120	
	MSD	1514253-01	ND	0.44800	0.40000	mg/L	0	112	20	80 - 120	
QC Batch ID: BYF1180	Used client sample: Y - Description: M001, 06/10/2015 09:55										
Settleable Solids	DUP	1514253-01	ND	ND		ml/L			10		
QC Batch ID: BYF1188	Used client sample: N										
Settleable Solids	DUP	1514328-02	ND	ND		ml/L			10		
QC Batch ID: BYF1203	Used client sample: Y - Description: M001, 06/10/2015 09:55										
Total Phenolics	DUP	1514253-01	ND	ND		ug/L			20		
	MS	1514253-01	ND	496.88	500.00	ug/L		99.4		80 - 120	
	MSD	1514253-01	ND	484.22	500.00	ug/L	2.6	96.8	20	80 - 120	
QC Batch ID: BYF1323	Used client sample: N										
Total Phenolics	DUP	1514251-02	45.820	47.320		ug/L	3.2		20		J
	MS	1514251-02	45.820	510.88	500.00	ug/L		93.0		80 - 120	
	MSD	1514251-02	45.820	524.53	500.00	ug/L	2.6	95.7	20	80 - 120	
QC Batch ID: BYF1376	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1514188-03	376.36	360.00		mg/L	4.4		10		
QC Batch ID: BYF1377	Used client sample: N										
Total Suspended Solids (Glass Fiber)	DUP	1514235-01	34.500	34.500		mg/L	0		10		
QC Batch ID: BYF1422	Used client sample: N										
Biochemical Oxygen Demand - Seeded	DUP	1514174-01	33.899	31.110		mg/L	8.6		20		
QC Batch ID: BYF1424	Used client sample: Y - Description: M006, 06/10/2015 12:40										
Biochemical Oxygen Demand - Seeded	DUP	1514253-06	ND	ND		mg/L			20		
QC Batch ID: BYF1483	Used client sample: Y - Description: M001, 06/10/2015 09:55										

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYF1483	Used client sample: Y - Description: M001, 06/10/2015 09:55										
Total Sulfide	DUP	1514253-01	ND	ND		mg/L			10		
	MS	1514253-01	ND	0.40151	0.50000	mg/L		80.3		80 - 120	
	MSD	1514253-01	ND	0.40305	0.50000	mg/L	0.4	80.6	10	80 - 120	
QC Batch ID: BYF1484	Used client sample: Y - Description: Dup, 06/10/2015 13:20										
Total Sulfide	DUP	**1514253-11**	**ND**	**ND**		**mg/L**			**10**		
	MS	**1514253-11**	**ND**	**0.33683**	**0.50000**	**mg/L**		**67.4**		**80 - 120**	**Q03**
	MSD	**1514253-11**	**ND**	**0.33683**	**0.50000**	**mg/L**	**0**	**67.4**	**10**	**80 - 120**	**Q03**
QC Batch ID: BYF1577	Used client sample: Y - Description: Dup, 06/10/2015 13:20										
Biochemical Oxygen Demand - Seeded	DUP	1514253-11	1.7538	ND		mg/L			20		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BYF1439						
Total Recoverable Zinc	BYF1439-BLK1	ND	ug/L	50	1.3	
QC Batch ID: BYF1440						
Total Recoverable Zinc	BYF1440-BLK1	ND	ug/L	50	1.3	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BYF1439										
Total Recoverable Zinc	BYF1439-BS1	LCS	569.26	500.00	ug/L	114		85 - 115		
QC Batch ID: BYF1440										
Total Recoverable Zinc	BYF1440-BS1	LCS	546.23	500.00	ug/L	109		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BYF1439	Used client sample: Y - Description: M001, 06/10/2015 09:55										
Total Recoverable Zinc	DUP	1514253-01	28.304	27.761		ug/L	1.9		20		J
	MS	1514253-01	28.304	606.62	500.00	ug/L		116		75 - 125	
	MSD	1514253-01	28.304	582.55	500.00	ug/L	4.0	111	20	75 - 125	
QC Batch ID: BYF1440	Used client sample: Y - Description: Dup, 06/10/2015 13:20										
Total Recoverable Zinc	DUP	1514253-11	110.64	107.52		ug/L	2.9		20		
	MS	1514253-11	110.64	634.80	500.00	ug/L		105		75 - 125	
	MSD	1514253-11	110.64	693.99	500.00	ug/L	8.9	117	20	75 - 125	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Fugro Consultants
4820 McGrath Street Ste.100
Ventura, CA 93003-7778

Reported: 06/19/2015 14:39
Project: Malibu -NPDES
Project Number: [none]
Project Manager: Tim Nicely

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A07	Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
A52	Chromatogram not typical of diesel.
A57	Chromatogram not typical of motor oil.
L01	The Laboratory Control Sample Water (LCSW) recovery is not within laboratory established control limits.
Q02	Matrix spike precision is not within the control limits.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

June 19, 2015

Fugro Consultants, Inc.
4820 McGrath, Suite 100
Ventura, CA 93003-7778

SP 1506516:1-7 **ENTEROCOCCUS BACTERIA ANALYSIS**
Customer ID : 2-678

System Number :
Project Name : Big Rock Mesa

Sample Handling Information

ID	Sample Number	Sample Description	Sample Type/Reason	Sampled By	Employed By	Sampled	Started	Finished
1	SP 1506516-001	M001	Source-Other	Nick Simon	Not Available	06/10/2015 09:55	06/10/2015 16:21 LM	06/11/2015 LM
2	SP 1506516-002	M002	Source-Other	Nick Simon	Not Available	06/10/2015 10:15	06/10/2015 16:21 LM	06/11/2015 LM
3	SP 1506516-003	M003	Source-Other	Nick Simon	Not Available	06/10/2015 10:40	06/10/2015 16:21 LM	06/11/2015 LM
4	SP 1506516-004	M004	Source-Other	Nick Simon	Not Available	06/10/2015 10:45	06/10/2015 16:21 LM	06/11/2015 LM
5	SP 1506516-005	M005	Source-Other	Nick Simon	Not Available	06/10/2015 10:55	06/10/2015 16:22 LM	06/11/2015 LM
6	SP 1506516-006	M006	Source-Other	Nick Simon	Not Available	06/10/2015 12:40	06/10/2015 16:22 LM	06/11/2015 LM
7	SP 1506516-007	M007	Source-Other	Nick Simon	Not Available	06/10/2015 12:37	06/10/2015 16:22 LM	06/11/2015 LM

Analytical Results

ID	Sample Description	Chlorine Total/Free	Temp °C	Method	Units	Enterococcus	Person Notified‡	Date ‡ Notified	Time ‡ Notified	Foot Note
1	M001	---	---	IDEXX	MPN/100ml	11	N/R			
2	M002	---	---	IDEXX	MPN/100ml	16	N/R			
3	M003	---	---	IDEXX	MPN/100ml	<1	N/R			
4	M004	---	---	IDEXX	MPN/100ml	921	N/R			
5	M005	---	---	IDEXX	MPN/100ml	210	N/R			
6	M006	---	---	IDEXX	MPN/100ml	66	N/R			
7	M007	---	---	IDEXX	MPN/100ml	866	N/R			

N/R Not Required. MPN Most Probable Number A/P Absence/Presence ‡ Client Notification details.

Analysis were performed using Enterolert Method. If you have any questions regarding your results, please call.

RRH:SMH

Reviewed and Approved By **Raquel R. Harvey**

Digitally signed by Raquel R. Harvey
Title: Tech Director Microbiology
Date: 2015-06-19

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

June 19, 2015

Fugro Consultants, Inc.
4820 McGrath, Suite 100
Ventura, CA 93003-7778

SP 1506546:1-4 **ENTEROCOCCUS BACTERIA ANALYSIS**
Customer ID : 2-678

System Number :
Project Name : Big Rock Mesa Landslide Assesment

Sample Handling Information

ID	Sample Number	Sample Description	Sample Type/Reason	Sampled By	Employed By	Sampled	Started	Finished
1	SP 1506546-001	M-008	Source-Other	Nick Simon	Not Available	06/10/2015 13:15	06/10/2015 17:55 LM	06/11/2015 LM
2	SP 1506546-002	M-009	Source-Other	Nick Simon	Not Available	06/10/2015 13:00	06/10/2015 17:55 LM	06/11/2015 LM
3	SP 1506546-003	M-010	Source-Other	Nick Simon	Not Available	06/10/2015 14:30	06/10/2015 17:55 LM	06/11/2015 LM
4	SP 1506546-004	Dup	Source-Other	Nick Simon	Not Available	06/10/2015 13:20	06/10/2015 17:55 LM	06/11/2015 LM

Analytical Results

ID	Sample Description	Chlorine Total/Free	Temp °C	Method	Units	Enterococcus	Person Notified‡	Date ‡ Notified	Time ‡ Notified	Foot Note
1	M-008	---	---	IDEXX	MPN/100ml	517	N/R			
2	M-009	---	---	IDEXX	MPN/100ml	<1	N/R			
3	M-010	---	---	IDEXX	MPN/100ml	866	N/R			
4	Dup	---	---	IDEXX	MPN/100ml	>2420	N/R			

N/R Not Required. MPN Most Probable Number A/P Absence/Presence ‡ Client Notification details.

Analysis were performed using Enterolert Method. If you have any questions regarding your results, please call.

RRH:SMH

Reviewed and Approved By **Raquel R. Harvey**
Digitally signed by Raquel R. Harvey
Title: Tech Director Microbiology
Date: 2015-06-19

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

July 29, 2015

Fugro Consultants, Inc.
4820 McGrath, Suite 100
Ventura, CA 93003-7778

SP 1506516:1-7 **COLIFORM BACTERIA ANALYSIS**
Customer ID : 2-678

System Number :
Project Name : Big Rock Mesa

Sample Handling Information

ID	Sample Number	Sample Description	Sample Type/Reason	Sampled By	Employed By	Sampled	Started	Finished
1	SP 1506516-001	M001	Source-Other	Nick Simon	Not Available	06/10/2015 09:55	06/10/2015 16:27 LM	06/12/2015 RV
2	SP 1506516-002	M002	Source-Other	Nick Simon	Not Available	06/10/2015 10:15	06/10/2015 16:28 LM	06/12/2015 RV
3	SP 1506516-003	M003	Source-Other	Nick Simon	Not Available	06/10/2015 10:40	06/10/2015 16:29 LM	06/12/2015 RV
4	SP 1506516-004	M004	Source-Other	Nick Simon	Not Available	06/10/2015 10:45	06/10/2015 16:30 LM	06/12/2015 RV
5	SP 1506516-005	M005	Source-Other	Nick Simon	Not Available	06/10/2015 10:55	06/10/2015 16:31 LM	06/12/2015 RV
6	SP 1506516-006	M006	Source-Other	Nick Simon	Not Available	06/10/2015 12:40	06/10/2015 16:32 LM	06/12/2015 RV
7	SP 1506516-007	M007	Source-Other	Nick Simon	Not Available	06/10/2015 12:37	06/10/2015 16:331 LM	06/12/2015 RV

Analytical Results

ID	Sample Description	Chlorine Total/Free	Temp °C	Method	Units	Total	Fecal	E. Coli	Person Notified ‡	Date ‡ Notified	Time ‡ Notified	Foot Note
1	M001	---	---	SM 9221B	MPN/100ml	>23.0	12	---	N/R			
2	M002	---	---	SM 9221B	MPN/100ml	>23.0	>23.0	---	N/R			
3	M003	---	---	SM 9221B	MPN/100ml	<1.1	<1.1	---	N/R			
4	M004	---	---	SM 9221B	MPN/100ml	>23.0	>23.0	---	N/R			
5	M005	---	---	SM 9221B	MPN/100ml	>23.0	>23.0	---	N/R			
6	M006	---	---	SM 9221B	MPN/100ml	>23.0	23	---	N/R			
7	M007	---	---	SM 9221B	MPN/100ml	>23.0	>23.0	---	N/R			

N/R Not Required. MPN Most Probable Number A/P Absence/Presence ‡ Client Notification details.

Analyses were performed using Standard Methods 22nd edition. If you have any questions regarding your results, please call.

RRH:SMH

Reviewed and Approved By **Raquel R. Harvey**

Digitally signed by Raquel R. Harvey
Title: Tech Director Microbiology
Date: 2015-07-29

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

July 29, 2015

Fugro Consultants, Inc.
4820 McGrath, Suite 100
Ventura, CA 93003-7778

SP 1506546:1-4 **COLIFORM BACTERIA ANALYSIS**
Customer ID : 2-678

System Number :
Project Name : Big Rock Mesa Landslide Assesment

Sample Handling Information

ID	Sample Number	Sample Description	Sample Type/Reason	Sampled By	Employed By	Sampled	Started	Finished
1	SP 1506546-001	M-008	Source-Other	Nick Simon	Not Available	06/10/2015 13:15	06/10/2015 18:01 LM	06/12/2015 RV
2	SP 1506546-002	M-009	Source-Other	Nick Simon	Not Available	06/10/2015 13:00	06/10/2015 18:02 LM	06/12/2015 RV
3	SP 1506546-003	M-010	Source-Other	Nick Simon	Not Available	06/10/2015 14:30	06/10/2015 18:03 LM	06/12/2015 RV
4	SP 1506546-004	Dup	Source-Other	Nick Simon	Not Available	06/10/2015 13:20	06/10/2015 18:04 LM	06/12/2015 RV

Analytical Results

ID	Sample Description	Chlorine Total/Free	Temp °C	Method	Units	Total	Fecal	E. Coli	Person Notified ‡	Date ‡ Notified	Time ‡ Notified	Foot Note
1	M-008	---	---	SM 9221B	MPN/100ml	>23.0	>23.0	---	N/R			
2	M-009	---	---	SM 9221B	MPN/100ml	<1.1	<1.1	---	N/R			
3	M-010	---	---	SM 9221B	MPN/100ml	>23.0	23	---	N/R			
4	Dup	---	---	SM 9221B	MPN/100ml	>23.0	>23.0	---	N/R			

N/R Not Required. MPN Most Probable Number A/P Absence/Presence ‡ Client Notification details.

Analyses were performed using Standard Methods 22nd edition. If you have any questions regarding your results, please call.

RRH:SMH

Reviewed and Approved By **Raquel R. Harvey**
Digitally signed by Raquel R. Harvey
Title: Tech Director Microbiology
Date: 2015-07-29

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810