



LABORATORY REPORT

Prepared For: WGR Southwest, Inc. - Lodi
315 W. Pine Street, Suite 8
Lodi, CA 95240
Attention: John Teravskis

Project: BP Carson LVW RW
021.APC.00, LVW RW

Sampled: 01/25/05
Received: 01/25/05
Issued: 02/04/05 09:24

NELAP #01108CA CA ELAP #1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain of Custody, 1 page, is included and is an integral part of this report.
This entire report was reviewed and approved for release.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 5°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Del Mar Analytical Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: EPA 6020 Zinc results and EPA 300.0 Nitrate-N results were reported from dilutions for samples due to sample matrix effects. The reporting limits were elevated due to the dilution multiplication factors. Affected sample results were flagged with 'RL-1' qualifiers. Relatively high levels of interfering compound concentrations were the primary reasons that sample dilutions were needed.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

LABORATORY ID

IOA1453-01
IOA1453-02
IOA1453-03

CLIENT ID

RW1
RW2
RW3

MATRIX

Water
Water
Water

Reviewed By:

Del Mar Analytical, Irvine
Patty Mata
Project Manager



Del Mar Analytical

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Attention: John Teravskis

Project ID: BP Carson LVW RW
021.APC.00, LVW RW
Report Number: IOA1453

Sampled: 01/25/05
Received: 01/25/05

METALS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOA1453-01 (RW1 - Water)								
Reporting Units: ug/l								
Copper	EPA 6020	5A29045	4.0	4.6	2	1/29/2005	1/31/2005	
Zinc	EPA 6020	5A29045	40	ND	2	1/29/2005	1/31/2005	M2, RL-1
Sample ID: IOA1453-02 (RW2 - Water)								
Reporting Units: ug/l								
Copper	EPA 6020	5A29045	4.0	5.3	2	1/29/2005	1/31/2005	
Zinc	EPA 6020	5A29045	40	ND	2	1/29/2005	1/31/2005	RL-1
Sample ID: IOA1453-03 (RW3 - Water)								
Reporting Units: ug/l								
Copper	EPA 6020	5A29045	4.0	5.5	2	1/29/2005	1/31/2005	
Zinc	EPA 6020	5A29045	40	ND	2	1/29/2005	1/31/2005	RL-1

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Project ID: BP Carson LVW RW
 021.APC.00, LVW RW
 Report Number: IOA1453

Sampled: 01/25/05
 Received: 01/25/05

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOA1453-01 (RW1 - Water)								
Reporting Units: g/l								
Salinity	EPA 120.1	5A31058	0.50	31	5	1/31/2005	1/31/2005	
Sample ID: IOA1453-01 (RW1 - Water)								
Reporting Units: mg/l								
Ammonia-N	EPA 350.3	5B01057	1.0	2.8	2	2/1/2005	2/1/2005	
Dissolved Oxygen	EPA 360.1	5A26057	1.0	6.6	1	1/26/2005	1/26/2005	
Hardness (as CaCO ₃)	EPA 130.2	5A28069	4.0	5000	1	1/28/2005	1/28/2005	
Nitrate-N	EPA 300.0	5A25046	5.5	ND	50	1/25/2005	1/25/2005	RL-3
Residual Chlorine	EPA 330.5	5A26056	0.10	ND	1	1/26/2005	1/26/2005	
Sulfide	EPA 376.2	5A27072	0.10	ND	1	1/27/2005	1/27/2005	
Sample ID: IOA1453-01 (RW1 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	5A25109	NA	7.78	1	1/25/2005	1/25/2005	
Sample ID: IOA1453-02 (RW2 - Water)								
Reporting Units: g/l								
Salinity	EPA 120.1	5A31058	0.50	32	5	1/31/2005	1/31/2005	
Sample ID: IOA1453-02 (RW2 - Water)								
Reporting Units: mg/l								
Ammonia-N	EPA 350.3	5B01057	1.0	ND	2	2/1/2005	2/1/2005	
Dissolved Oxygen	EPA 360.1	5A26057	1.0	6.7	1	1/26/2005	1/26/2005	
Hardness (as CaCO ₃)	EPA 130.2	5A28069	4.0	5000	1	1/28/2005	1/28/2005	
Nitrate-N	EPA 300.0	5A25046	5.5	ND	50	1/25/2005	1/25/2005	RL-3
Residual Chlorine	EPA 330.5	5A26056	0.10	ND	1	1/26/2005	1/26/2005	
Sulfide	EPA 376.2	5A27072	0.10	ND	1	1/27/2005	1/27/2005	
Sample ID: IOA1453-02 (RW2 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	5A25109	NA	7.84	1	1/25/2005	1/25/2005	

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WGR Southwest, Inc. - Lodi
315 W. Pine Street, Suite 8
Lodi, CA 95240
Attention: John Teravskis

Project ID: BP Carson LVW RW
021.APC.00, LVW RW
Report Number: IOA1453

Sampled: 01/25/05
Received: 01/25/05

INORGANICS

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IOA1453-03 (RW3 - Water)								
Reporting Units: g/l								
Salinity	EPA 120.1	5A31058	0.50	36	5	1/31/2005	1/31/2005	
Sample ID: IOA1453-03 (RW3 - Water)								
Reporting Units: mg/l								
Ammonia-N	EPA 350.3	5B01057	1.0	ND	2	2/1/2005	2/1/2005	
Dissolved Oxygen	EPA 360.1	5A26057	1.0	6.5	1	1/26/2005	1/26/2005	
Hardness (as CaCO3)	EPA 130.2	5A28069	4.0	5400	1	1/28/2005	1/28/2005	
Nitrate-N	EPA 300.0	5A25046	5.5	ND	50	1/25/2005	1/25/2005	RL-3
Residual Chlorine	EPA 330.5	5A26056	0.10	ND	1	1/26/2005	1/26/2005	
Sulfide	EPA 376.2	5A27072	0.10	ND	1	1/27/2005	1/27/2005	
Sample ID: IOA1453-03 (RW3 - Water)								
Reporting Units: pH Units								
pH	EPA 150.1	5A25109	NA	7.81	1	1/25/2005	1/25/2005	

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Sampled: 01/25/05
Received: 01/25/05

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: RW1 (IOA1453-01) - Water					
EPA 150.1	1	01/25/2005 11:00	01/25/2005 14:57	01/25/2005 16:30	01/25/2005 17:30
EPA 300.0	2	01/25/2005 11:00	01/25/2005 14:57	01/25/2005 17:30	01/25/2005 18:38
EPA 330.5	1	01/25/2005 11:00	01/25/2005 14:57	01/26/2005 09:19	01/26/2005 10:00
EPA 360.1	1	01/25/2005 11:00	01/25/2005 14:57	01/26/2005 09:22	01/26/2005 11:00
Sample ID: RW2 (IOA1453-02) - Water					
EPA 150.1	1	01/25/2005 11:15	01/25/2005 14:57	01/25/2005 16:30	01/25/2005 17:30
EPA 300.0	2	01/25/2005 11:15	01/25/2005 14:57	01/25/2005 17:30	01/25/2005 18:53
EPA 330.5	1	01/25/2005 11:15	01/25/2005 14:57	01/26/2005 09:19	01/26/2005 10:00
EPA 360.1	1	01/25/2005 11:15	01/25/2005 14:57	01/26/2005 09:22	01/26/2005 11:00
Sample ID: RW3 (IOA1453-03) - Water					
EPA 150.1	1	01/25/2005 11:40	01/25/2005 14:57	01/25/2005 16:30	01/25/2005 17:30
EPA 300.0	2	01/25/2005 11:40	01/25/2005 14:57	01/25/2005 17:30	01/25/2005 19:07
EPA 330.5	1	01/25/2005 11:40	01/25/2005 14:57	01/26/2005 09:19	01/26/2005 10:00
EPA 360.1	1	01/25/2005 11:40	01/25/2005 14:57	01/26/2005 09:22	01/26/2005 11:00

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 Received: 01/25/05

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5A29045 Extracted: 01/29/05										
Blank Analyzed: 01/31/2005 (5A29045-BLK1)										
Copper	ND	2.0	ug/l							
Zinc	ND	20	ug/l							
LCS Analyzed: 01/31/2005 (5A29045-BS1)										
Copper	79.3	2.0	ug/l	80.0		99	80-120			
Zinc	78.5	20	ug/l	80.0		98	80-120			
Matrix Spike Analyzed: 01/31/2005 (5A29045-MS1)										
					Source: IOA1453-01					
Copper	73.2	4.0	ug/l	80.0	4.6	86	75-125			
Zinc	74.4	40	ug/l	80.0	18	70	75-125			M2
Matrix Spike Dup Analyzed: 01/31/2005 (5A29045-MSD1)										
					Source: IOA1453-01					
Copper	77.7	4.0	ug/l	80.0	4.6	91	75-125	6	20	
Zinc	79.2	40	ug/l	80.0	18	76	75-125	6	20	

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Sampled: 01/25/05
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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5A25046 Extracted: 01/25/05										
Blank Analyzed: 01/25/2005 (5A25046-BLK1)										
Nitrate-N	ND	0.11	mg/l							
LCS Analyzed: 01/25/2005 (5A25046-BS1)										
Nitrate-N	1.17	0.11	mg/l	1.13		104	90-110			
Matrix Spike Analyzed: 01/25/2005 (5A25046-MS1)										
Nitrate-N	1.20	0.11	mg/l	1.13	ND	106	80-120			
Matrix Spike Dup Analyzed: 01/25/2005 (5A25046-MSD1)										
Nitrate-N	1.19	0.11	mg/l	1.13	ND	105	80-120	1	20	
Batch: 5A25109 Extracted: 01/25/05										
Duplicate Analyzed: 01/25/2005 (5A25109-DUP1)										
pH	7.69	NA	pH Units		7.63			1	5	
Batch: 5A26056 Extracted: 01/26/05										
Duplicate Analyzed: 01/26/2005 (5A26056-DUP1)										
Residual Chlorine	ND	0.10	mg/l		ND				20	
Batch: 5A26057 Extracted: 01/26/05										
Duplicate Analyzed: 01/26/2005 (5A26057-DUP1)										
Dissolved Oxygen	6.70	1.0	mg/l		6.6			2	20	

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METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5A27072 Extracted: 01/27/05										
Blank Analyzed: 01/27/2005 (5A27072-BLK1)										
Sulfide	ND	0.10	mg/l							
LCS Analyzed: 01/27/2005 (5A27072-BS1)										
Sulfide	0.865	0.10	mg/l	0.875		99	80-120			
Matrix Spike Analyzed: 01/27/2005 (5A27072-MS1)					Source: IOA1453-01					
Sulfide	0.882	0.10	mg/l	0.875	0.056	94	70-130			
Matrix Spike Dup Analyzed: 01/27/2005 (5A27072-MSD1)					Source: IOA1453-01					
Sulfide	0.838	0.10	mg/l	0.875	0.056	89	70-130	5	30	
Batch: 5A28069 Extracted: 01/28/05										
Blank Analyzed: 01/28/2005 (5A28069-BLK1)										
Hardness (as CaCO ₃)	ND	4.0	mg/l							
LCS Analyzed: 01/28/2005 (5A28069-BS1)										
Hardness (as CaCO ₃)	100	4.0	mg/l	103		97	90-110			
Duplicate Analyzed: 01/28/2005 (5A28069-DUP1)					Source: IOA1457-01					
Hardness (as CaCO ₃)	102	4.0	mg/l		100			2	20	
Batch: 5A31058 Extracted: 01/31/05										
Duplicate Analyzed: 01/31/2005 (5A31058-DUP1)					Source: IOA1453-01					
Salinity	31.9	0.50	g/l		31			3	20	

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Received: 01/25/05

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 5B01057 Extracted: 02/01/05										
Blank Analyzed: 02/01/2005 (5B01057-BLK1)										
Ammonia-N	ND	1.0	mg/l							
LCS Analyzed: 02/01/2005 (5B01057-BS1)										
Ammonia-N	4.28	1.0	mg/l	5.00		86	85-115			
Matrix Spike Analyzed: 02/01/2005 (5B01057-MS1)										
Ammonia-N	153	20	mg/l	5.00	270	-2340	75-125			M-HA
Matrix Spike Dup Analyzed: 02/01/2005 (5B01057-MSD1)										
Ammonia-N	139	20	mg/l	5.00	270	-2620	75-125	10	15	M-HA

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DATA QUALIFIERS AND DEFINITIONS

M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M-HA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
RL-1	Reporting limit raised due to sample matrix effects.
RL-3	Reporting limit raised due to high concentrations of non-target analytes.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Certification Summary

Del Mar Analytical, Irvine

Method	Matrix	NELAP	CA
EPA 120.1	Water	X	X
EPA 130.2	Water	X	X
EPA 150.1	Water	X	X
EPA 300.0	Water	X	X
EPA 330.5	Water	X	X
EPA 350.3	Water	X	X
EPA 360.1	Water	X	X
EPA 376.2	Water	X	X
EPA 6020	Water	N/A	X

NV and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

Subcontracted Laboratories

Aquatic Testing Laboratories-SUB CA ELAP Cert #1775

4350 Transport Street, Unit 107 - Ventura, CA 93003

Analysis Performed: Bioassay-7 dy Chnric

Samples: IOA1453-01, IOA1453-02, IOA1453-03

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bp Carson Refinery		Bill Facility Directly										Chain of Custody										Page 1 of 1									
Facility Name bp Carson Refinery		City, State (Facility) 1801 E. Sepulveda Blvd., Carson CA 90749										Project Manager (Consultant) John Teravskis					Project No. (Consultant) 021.APC.00					Laboratory Name Del Mar									
bp Engineer Stefan Gogosha		bp Telephone No. (310) 816-8135										Telephone No. (Consultant) (209) 334-5363 ext. 202					Fax No. (Consultant) (209) 334-5374					(949) 261-1022 Patty Mata									
Consultant Company WGR Southwest, Inc.		Consultant Address 315 W. Pine Street, Suite 8, Lodi, CA 95240																				Method of Shipment									
Sample I.D.	Lab Sample No.	No. of Containers	Matrix				Prsv.		Sampling Date	Sampling Time	pH	Dissolved Oxygen	Sulfide	Hardness	Salinity	Ammonia	Nitrate (as N)	Residual Chlorine	Copper	Zinc	Chronic Toxicity (see below)	Turn Around Time (business days)	Special Detection Limit/Reporting								
			Soil	Water	Air	Other	Yes	No																							
RW1		10	X				X		1/25/05	1100am	X	X	X	X	X	X	X	X	X	X	X		Special QA/QC								
RW2		10	X				X		115		X	X	X	X	X	X	X	X	X	X											
RW3		10	X				X		1140		X	X	X	X	X	X	X	X	X	X											
<div style="display: flex; justify-content: space-between;"> <div> <p>RW1 - 50 ft. downstream of outfall; high tide towards 223rd St.; slack tide and low tide towards the ocean.</p> <p>RW2 - 250 ft. downstream of the outfall (tide dependent)</p> <p>RW3 - 250 ft. ustream of the outfall (tide dependent)</p> </div> <div> <p>Note: ammonia, salinity, and hardness samples are to be collected concurrently with the Outfall 23 sampling.</p> </div> </div>																							Sub'd COC Atch'd:								
<p>Toxicity Testing: Chronic - EPA/600/R-95/136 (vertebrate, invertebrate, & plant)</p> <p>1 Gallon Per CR</p>																							REMARKS Fax results to (209) 334-5374 and (310) 816-3485								
Sample Received Intact: Yes No										Temperature received: 5°C Ice Yes No ice																					
Relinquished by (Sign & Print Name) Steve Teravskis										Date Time 1/25/05 1457										Received by (Sign & Print Name) [Signature]										Lab Work No.	
Relinquished by										Date Time										Received by											
Relinquished by										Date Time										Received by laboratory										Date Time	
Rev. 12/16/2004																															