United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street Building 201
Richmond, CA 94804

Subject: **Analytical Testing Results - Project R07S28**
SDG: 07171A

From: **Brenda Bettencourt, Director**
EPA Region 9 Laboratory
MTS-2

To: **Chris Lichens**
Site Cleanup Section 4
SFD-7-4

Attached are the results from the analysis of samples from the **Omega Chemical OU2 Winter 2007 IDW Profiling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this	
Mercury	Metals by 200.7

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Region 9 Laboratory

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Project Manager:	Chris Lichens	**Site Cleanup Section 4**		**SDG:**	07171A
Project Number:	R07S28	**75 Hawthorne Street**		**Reported:**	06/25/07 16:59
Project:	Omega Chemical OU2 Winter 2007 IDW Profiling	**San Francisco CA, 94105**			

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
OC2-BTIDW-W-0-571	0706032-01	Water	06/19/07 15:00	06/20/07 09:30

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Sample Results

Lab ID: **0706032-01** — Water - Sampled: 06/19/07 15:00
Sample ID: **OC2-BTIDW-W-0-571** — Metals by EPA 200 Series Methods

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Mercury	**ND**	**U**	**0.030**	ug/L	B7F0088	06/21/07	06/21/07	245.1/SOP515
Aluminum	**ND**	**U**	**100**	"	B7F0082	06/20/07	06/21/07	200.7/SOP505
Antimony	**ND**	**U**	**20**	"	"	"	"	200.7/SOP505
Arsenic	**ND**	**U**	**20**	"	"	"	"	200.7/SOP505
Barium	**94**		**10**	"	"	"	"	200.7/SOP505
Beryllium	**ND**	**U**	**1.0**	"	"	"	"	200.7/SOP505
Boron	**370**		**100**	"	"	"	"	200.7/SOP505
Cadmium	**ND**	**U**	**5.0**	"	"	"	"	200.7/SOP505
Calcium	**120000**		**100**	"	"	"	"	200.7/SOP505
Chromium	**ND**	**U**	**10**	"	"	"	"	200.7/SOP505
Cobalt	**ND**	**U**	**10**	"	"	"	"	200.7/SOP505
Copper	**ND**	**U**	**10**	"	"	"	"	200.7/SOP505
Iron	**ND**	**U**	**100**	"	"	"	"	200.7/SOP505
Lead	**ND**	**U**	**20**	"	"	"	"	200.7/SOP505
Magnesium	**38000**		**500**	"	"	"	"	200.7/SOP505
Manganese	**150**		**5.0**	"	"	"	"	200.7/SOP505
Molybdenum	**18**	**C1, J**	**20**	"	"	"	"	200.7/SOP505
Nickel	**5.6**	**C1, J**	**10**	"	"	"	"	200.7/SOP505
Potassium	**6700**		**2000**	"	"	"	"	200.7/SOP505
Selenium	**ND**	**U**	**20**	"	"	"	"	200.7/SOP505
Silver	**ND**	**U**	**10**	"	"	"	"	200.7/SOP505
Sodium	**130000**		**500**	"	"	"	06/21/07	200.7/SOP505
Thallium	**ND**	**U**	**20**	"	"	"	06/21/07	200.7/SOP505
Vanadium	**5.5**	**C1, J**	**10**	"	"	"	"	200.7/SOP505
Zinc	**6.8**	**C1, J**	**10**	"	"	"	"	200.7/SOP505

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Project:	Omega Chemical OU2 Winter 2007 IDW Profiling	**San Francisco CA, 94105**			

Quality Control

Prepared: 06/20/07 Analyzed: 06/21/07

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B7F0082 - 200 Series Digest - Metals by 200.7										
Blank (B7F0082-BLK1)										
Aluminum	ND	U	100	ug/L						
Antimony	ND	U	20	"						
Arsenic	ND	U	20	"						
Barium	ND	U	10	"						
Beryllium	ND	U	1.0	"						
Boron	ND	U	100	"						
Cadmium	ND	U	5.0	"						
Calcium	ND	U	100	"						
Chromium	ND	U	10	"						
Cobalt	ND	U	10	"						
Copper	ND	U	10	"						
Iron	ND	U	100	"						
Lead	ND	U	20	"						
Magnesium	ND	U	500	"						
Manganese	ND	U	5.0	"						
Molybdenum	ND	U	20	"						
Nickel	ND	U	10	"						
Potassium	ND	U	2000	"						
Selenium	ND	U	20	"						
Silver	ND	U	10	"						
Sodium	ND	U	500	"						
Thallium	ND	U	20	"						
Vanadium	ND	U	10	"						
Zinc	ND	U	10	"						
LCS (B7F0082-BS1)										
Aluminum	1940		100	ug/L	2000		97	85-115		
Antimony	836		20	"	800		104	85-115		
Arsenic	833		20	"	800		104	85-115		
Barium	200		10	"	200		100	85-115		
Beryllium	204		1.0	"	200		102	85-115		
Boron	284		100	"	300		95	85-115		
Cadmium	199		5.0	"	200		100	85-115		
Calcium	993		100	"	1000		99	85-115		
Chromium	402		10	"	400		100	85-115		
Cobalt	196		10	"	200		98	85-115		
Copper	293		10	"	300		98	85-115		
Iron	3040		100	"	3000		101	85-115		
Lead	1010		20	"	1000		101	85-115		
Magnesium	1990		500	"	2000		100	85-115		
Manganese	198		5.0	"	200		99	85-115		
Molybdenum	409		20	"	400		102	85-115		
Nickel	507		10	"	500		101	85-115		
Potassium	10000		2000	"	10000		100	85-115		
Selenium	2060		20	"	2000		103	85-115		

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Project Number:	R07S28	**75 Hawthorne Street**	**Reported:** 06/25/07 16:59
Project:	Omega Chemical OU2 Winter 2007 IDW Profiling	**San Francisco CA, 94105**	

Quality Control

Prepared: 06/20/07 Analyzed: 06/21/07

Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B7F0082 - 200 Series Digest - Metals by 200.7										
LCS (B7F0082-BS1)										
Silver	70.2		10	"	75.0		94	85-115		
Sodium	3100		500	"	3000		103	85-115		
Thallium	1890		20	"	2000		94	85-115		
Vanadium	295		10	"	300		98	85-115		
Zinc	196		10	"	200		98	85-115		
Matrix Spike (B7F0082-MS1)		**Source: 0706032-01**								
Aluminum	1870		100	ug/L	2000	ND	94	70-130		
Antimony	814		20	"	800	ND	102	70-130		
Arsenic	833		20	"	800	ND	104	70-130		
Barium	282		10	"	200	93.7	94	70-130		
Beryllium	190		1.0	"	200	ND	95	70-130		
Boron	657		100	"	300	365	97	70-130		
Cadmium	187		5.0	"	200	ND	94	70-130		
Calcium	120000	Q10	100	"	1000	118000	200	70-130		
Chromium	386		10	"	400	ND	96	70-130		
Cobalt	180		10	"	200	ND	90	70-130		
Copper	266		10	"	300	ND	89	70-130		
Iron	2910		100	"	3000	ND	97	70-130		
Lead	904		20	"	1000	ND	90	70-130		
Magnesium	39500	Q10	500	"	2000	37600	95	70-130		
Manganese	341		5.0	"	200	155	93	70-130		
Molybdenum	425		20	"	400	18.0	102	70-130		
Nickel	460		10	"	500	5.64	91	70-130		
Potassium	16500		2000	"	10000	6740	98	70-130		
Selenium	1970		20	"	2000	ND	98	70-130		
Silver	67.8		10	"	75.0	ND	90	70-130		
Sodium	138000	Q10	500	"	3000	134000	133	70-130		
Thallium	1690		20	"	2000	ND	84	70-130		
Vanadium	291		10	"	300	5.53	95	70-130		
Zinc	190		10	"	200	6.85	92	70-130		
Matrix Spike Dup (B7F0082-MSD1)		**Source: 0706032-01**								
Aluminum	1840		100	ug/L	2000	ND	92	70-130	2	20
Antimony	797		20	"	800	ND	100	70-130	2	20
Arsenic	814		20	"	800	ND	102	70-130	2	20
Barium	275		10	"	200	93.7	91	70-130	3	20
Beryllium	189		1.0	"	200	ND	94	70-130	0.5	20
Boron	647		100	"	300	365	94	70-130	2	20
Cadmium	186		5.0	"	200	ND	93	70-130	0.5	20
Calcium	117000	Q10	100	"	1000	118000	NR	70-130	3	20
Chromium	384		10	"	400	ND	96	70-130	0.5	20
Cobalt	178		10	"	200	ND	89	70-130	1	20
Copper	260		10	"	300	ND	87	70-130	2	20
Iron	2880		100	"	3000	ND	96	70-130	1	20
Lead	892		20	"	1000	ND	89	70-130	1	20
Magnesium	38200	Q10	500	"	2000	37600	30	70-130	3	20

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Quality Control

Prepared: 06/20/07 Analyzed: 06/21/07

Batch B7F0082 - 200 Series Digest - Metals by 200.7 — Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B7F0082-MSD1)		**Source: 0706032-01**								
Manganese	332		5.0	"	200	155	88	70-130	3	20
Molybdenum	420		20	"	400	18.0	100	70-130	1	20
Nickel	456		10	"	500	5.64	90	70-130	0.9	20
Potassium	16100		2000	"	10000	6740	94	70-130	2	20
Selenium	1940		20	"	2000	ND	97	70-130	2	20
Silver	66.9		10	"	75.0	ND	89	70-130	1	20
Sodium	133000	Q10	500	"	3000	134000	NR	70-130	4	20
Thallium	1670		20	"	2000	ND	84	70-130	1	20
Vanadium	289		10	"	300	5.53	94	70-130	0.7	20
Zinc	189		10	"	200	6.85	91	70-130	0.5	20

Prepared & Analyzed: 06/21/07

Batch B7F0088 - 245.1 Hg Prep. - Mercury — Metals by EPA 200 Series Methods - Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B7F0088-BLK1)										
Mercury	ND	U	0.030	ug/L						
LCS (B7F0088-BS1)										
Mercury	0.221		0.030	ug/L	0.200		110	85-115		
Matrix Spike (B7F0088-MS1)		**Source: 0706032-01**								
Mercury	0.223		0.030	ug/L	0.200	ND	112	70-130		
Matrix Spike Dup (B7F0088-MSD1)		**Source: 0706032-01**								
Mercury	0.234		0.030	ug/L	0.200	ND	117	70-130	5	20

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Qualifiers and Comments

Q10	The analyte concentration in the unfortified sample is significantly greater than the concentration spiked into the matrix spike and matrix spike duplicate. The reported spike recovery is not a meaningful measure of the dataset's analytical accuracy.
J	The reported result for this analyte should be considered an estimated value.
C1	The reported concentration for this analyte is below the quantitation limit.
U	Not Detected
NR	Not Reported