United States Environmental Protection Agency
Region 9 Laboratory

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

Subject: **Analytical Testing Results - Project R07S28**
SDG: 07065A

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	Mercury
Metals, ICP	Metals, ICP
Solids, Dry Weight	

United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager:	Chris Lichens	**Site Cleanup Section 4**		**SDG:**	07065A
Project Number:	R07S28	**75 Hawthorne Street**		**Reported:**	03/14/07 14:49
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-MW26IDW-W-0-449	0703017-01	Water	03/05/07 15:10	03/06/07 10:50
OC2-MW26IDW-S-0-450	0703017-02	Soil	03/05/07 15:15	03/06/07 10:50

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Project Manager:	Chris Lichens	**Site Cleanup Section 4**		**SDG:**	07065A
Project Number:	R07S28	**75 Hawthorne Street**		**Reported:**	03/14/07 14:49
Project:	Omega Chemical OU2 Winter 2007 IDW Profiling	**San Francisco CA, 94105**			

Sample Results

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 0703017-01								Water - Sampled: 03/05/07 15:10
Sample ID: OC2-MW26IDW-W-0-449								Metals by EPA 200 Series Methods
Mercury	**ND**	**U**	**0.030**	ug/L	B7C0039	03/06/07	03/07/07	245.1/SOP515
Aluminum	**ND**	**U**	**100**	"	B7C0040	03/06/07	03/12/07	200.7/SOP505
Antimony	**ND**	**U**	**20**	"	"	"	"	200.7/SOP505
Arsenic	**ND**	**U**	**20**	"	"	"	"	200.7/SOP505
Barium	**74**		**10**	"	"	"	"	200.7/SOP505
Beryllium	**ND**	**U**	**1.0**	"	"	"	"	200.7/SOP505
Boron	**250**		**100**	"	"	"	"	200.7/SOP505
Cadmium	**ND**	**U**	**5.0**	"	"	"	"	200.7/SOP505
Calcium	**100000**		**100**	"	"	"	"	200.7/SOP505
Chromium	**12**		**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	**28000**		**500**	"	"	"	"	200.7/SOP505
Manganese	**100**		**5.0**	"	"	"	"	200.7/SOP505
Molybdenum	**15**	**C1, J**	**20**	"	"	"	"	200.7/SOP505
Nickel	**ND**	**U**	**10**	"	"	"	"	200.7/SOP505
Potassium	**6600**		**2000**	"	"	"	"	200.7/SOP505
Selenium	**13**	**C1, J**	**20**	"	"	"	"	200.7/SOP505
Silver	**ND**	**U**	**10**	"	"	"	"	200.7/SOP505
Sodium	**130000**		**500**	"	"	"	"	200.7/SOP505
Thallium	**ND**	**U**	**20**	"	"	"	"	200.7/SOP505
Vanadium	**ND**	**U**	**10**	"	"	"	"	200.7/SOP505
Zinc	**ND**	**U**	**10**	"	"	"	"	200.7/SOP505
Lab ID: 0703017-02								Soil - Sampled: 03/05/07 15:15
Sample ID: OC2-MW26IDW-S-0-450								Metals by EPA 6000/7000 Series Methods
Mercury	**0.041**		**0.033**	mg/kg dry	B7C0058	03/08/07	03/08/07	7473/SOP535
Antimony	**ND**	**J, Q4, U**	**2.6**	"	B7C0042	03/06/07	03/09/07	6010B/SOP503
Arsenic	**3.0**		**2.6**	"	"	"	"	6010B/SOP503
Barium	**58**		**6.6**	"	"	"	"	6010B/SOP503
Beryllium	**0.21**		**0.13**	"	"	"	"	6010B/SOP503
Cadmium	**ND**	**U**	**0.66**	"	"	"	"	6010B/SOP503
Chromium	**9.8**		**1.3**	"	"	"	"	6010B/SOP503
Cobalt	**3.5**		**2.6**	"	"	"	"	6010B/SOP503
Copper	**8.2**		**5.3**	"	"	"	"	6010B/SOP503
Lead	**ND**	**U**	**3.9**	"	"	"	"	6010B/SOP503
Molybdenum	**ND**	**U**	**6.6**	"	"	"	"	6010B/SOP503
Nickel	**7.3**		**6.6**	"	"	"	"	6010B/SOP503
Selenium	**ND**	**U**	**2.6**	"	"	"	"	6010B/SOP503
Silver	**ND**	**U**	**1.3**	"	"	"	"	6010B/SOP503
Thallium	**ND**	**U**	**6.6**	"	"	"	"	6010B/SOP503
Vanadium	**20**		**2.6**	"	"	"	"	6010B/SOP503
Zinc	**23**		**11**	"	"	"	"	6010B/SOP503

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Project Manager:	Chris Lichens	**Site Cleanup Section 4**		**SDG:**	07065A
Project Number:	R07S28	**75 Hawthorne Street**		**Reported:**	03/14/07 14:49
Project:	Omega Chemical OU2 Winter 2007 IDW Profiling	**San Francisco CA, 94105**			

Sample Results

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: **0703017-02**								Soil - Sampled: 03/05/07 15:15
Sample ID: **OC2-MW26IDW-S-0-450**								Conventional Chemistry Parameters by APHA/EPA Methods
% Solids	**76**		**0**	%	B7C0053	03/07/07	03/08/07	% calculation

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R9Q

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
								Prepared: 03/06/07 Analyzed: 03/07/07		
Batch B7C0039 - 245.1 Hg Prep. - Mercury								Metals by EPA 200 Series Methods - Quality Control		
Blank (B7C0039-BLK1)										
Mercury	ND	U	0.030	ug/L						
LCS (B7C0039-BS1)										
Mercury	0.201		0.030	ug/L	0.200		100	85-115		
Matrix Spike (B7C0039-MS1)	**Source: 0703017-01**									
Mercury	0.222		0.030	ug/L	0.200	ND	111	70-130		
Matrix Spike (B7C0039-MS2)	**Source: 0703018-17**									
Mercury	0.218		0.030	ug/L	0.200	ND	109	70-130		
Matrix Spike Dup (B7C0039-MSD1)	**Source: 0703017-01**									
Mercury	0.224		0.030	ug/L	0.200	ND	112	70-130	0.9	20
Matrix Spike Dup (B7C0039-MSD2)	**Source: 0703018-17**									
Mercury	0.215		0.030	ug/L	0.200	ND	108	70-130	1	20
								Prepared: 03/06/07 Analyzed: 03/12/07		
Batch B7C0040 - 200 Series Digest - Metals, ICP								Metals by EPA 200 Series Methods - Quality Control		
Blank (B7C0040-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 (B7C0040-BS1)										
Aluminum	1950		100	ug/L	2000		98	85-115		
Antimony	831		20	"	800		104	85-115		
Arsenic	833		20	"	800		104	85-115		

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Quality Control

Prepared: 03/06/07 Analyzed: 03/12/07

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 B7C0040 - 200 Series Digest - Metals, ICP										
LCS (B7C0040-BS1)										
Barium	191		10	"	200		96	85-115		
Beryllium	202		1.0	"	200		101	85-115		
Boron	290		100	"	300		97	85-115		
Cadmium	197		5.0	"	200		98	85-115		
Calcium	997		100	"	1000		100	85-115		
Chromium	394		10	"	400		98	85-115		
Cobalt	190		10	"	200		95	85-115		
Copper	297		10	"	300		99	85-115		
Iron	3000		100	"	3000		100	85-115		
Lead	1010		20	"	1000		101	85-115		
Magnesium	1960		500	"	2000		98	85-115		
Manganese	192		5.0	"	200		96	85-115		
Molybdenum	401		20	"	400		100	85-115		
Nickel	495		10	"	500		99	85-115		
Potassium	10300		2000	"	10000		103	85-115		
Selenium	2100		20	"	2000		105	85-115		
Silver	74.3		10	"	75.0		99	85-115		
Sodium	3100		500	"	3000		103	85-115		
Thallium	1910		20	"	2000		96	85-115		
Vanadium	291		10	"	300		97	85-115		
Zinc	198		10	"	200		99	85-115		
Matrix Spike (B7C0040-MS1)	**Source: 0703017-01**									
Aluminum	1850		100	ug/L	2000	ND	92	70-130		
Antimony	813		20	"	800	ND	102	70-130		
Arsenic	828		20	"	800	ND	104	70-130		
Barium	250		10	"	200	73.9	88	70-130		
Beryllium	191		1.0	"	200	ND	96	70-130		
Boron	546		100	"	300	253	98	70-130		
Cadmium	187		5.0	"	200	ND	94	70-130		
Calcium	107000	Q10	100	"	1000	104000	300	70-130		
Chromium	384		10	"	400	12.3	93	70-130		
Cobalt	177		10	"	200	ND	88	70-130		
Copper	272		10	"	300	ND	91	70-130		
Iron	2850		100	"	3000	ND	95	70-130		
Lead	923		20	"	1000	ND	92	70-130		
Magnesium	30300		500	"	2000	28200	105	70-130		
Manganese	282		5.0	"	200	101	90	70-130		
Molybdenum	409		20	"	400	14.8	99	70-130		
Nickel	461		10	"	500	ND	92	70-130		
Potassium	16500		2000	"	10000	6620	99	70-130		
Selenium	2060		20	"	2000	13.3	102	70-130		
Silver	70.5		10	"	75.0	ND	94	70-130		
Sodium	132000	Q10	500	"	3000	128000	133	70-130		
Thallium	1760		20	"	2000	ND	88	70-130		
Vanadium	286		10	"	300	ND	95	70-130		

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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
								Prepared: 03/06/07 Analyzed: 03/12/07		
Batch B7C0040 - 200 Series Digest - Metals, ICP								Metals by EPA 200 Series Methods - Quality Control		
Matrix Spike (B7C0040-MS1)	**Source: 0703017-01**									
Zinc	195		10	"	200	ND	98	70-130		
Matrix Spike Dup (B7C0040-MSD1)	**Source: 0703017-01**									
Aluminum	1850		100	ug/L	2000	ND	92	70-130	0	20
Antimony	808		20	"	800	ND	101	70-130	0.6	20
Arsenic	820		20	"	800	ND	102	70-130	1	20
Barium	248		10	"	200	73.9	87	70-130	0.8	20
Beryllium	189		1.0	"	200	ND	94	70-130	1	20
Boron	542		100	"	300	253	96	70-130	0.7	20
Cadmium	186		5.0	"	200	ND	93	70-130	0.5	20
Calcium	104000	Q10	100	"	1000	104000	0	70-130	3	20
Chromium	383		10	"	400	12.3	93	70-130	0.3	20
Cobalt	177		10	"	200	ND	88	70-130	0	20
Copper	272		10	"	300	ND	91	70-130	0	20
Iron	2850		100	"	3000	ND	95	70-130	0	20
Lead	912		20	"	1000	ND	91	70-130	1	20
Magnesium	29900		500	"	2000	28200	85	70-130	1	20
Manganese	281		5.0	"	200	101	90	70-130	0.4	20
Molybdenum	404		20	"	400	14.8	97	70-130	1	20
Nickel	459		10	"	500	ND	92	70-130	0.4	20
Potassium	16500		2000	"	10000	6620	99	70-130	0	20
Selenium	2050		20	"	2000	13.3	102	70-130	0.5	20
Silver	69.9		10	"	75.0	ND	93	70-130	0.9	20
Sodium	130000	Q10	500	"	3000	128000	67	70-130	2	20
Thallium	1740		20	"	2000	ND	87	70-130	1	20
Vanadium	284		10	"	300	ND	95	70-130	0.7	20
Zinc	194		10	"	200	ND	97	70-130	0.5	20
								Prepared: 03/06/07 Analyzed: 03/09/07		
Batch B7C0042 - 3050B Sld Acid Dig - Metals, ICP								Metals by EPA 6000/7000 Series Methods - Quality Control		
Blank (B7C0042-BLK1)										
Antimony	ND	U	2.0	mg/kg wet						
Arsenic	ND	U	2.0	"						
Barium	ND	U	5.0	"						
Beryllium	ND	U	0.10	"						
Cadmium	ND	U	0.50	"						
Chromium	ND	U	1.0	"						
Cobalt	ND	U	2.0	"						
Copper	ND	U	4.0	"						
Lead	ND	U	3.0	"						
Molybdenum	ND	U	5.0	"						
Nickel	ND	U	5.0	"						
Selenium	ND	U	2.0	"						
Silver	ND	U	1.0	"						
Thallium	ND	U	5.0	"						
Vanadium	ND	U	2.0	"						

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Quality Control

Prepared: 03/06/07 Analyzed: 03/09/07

Batch B7C0042 - 3050B Sld Acid Dig - Metals, ICP

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B7C0042-BLK1)										
Zinc	ND	U	8.0	"						
Matrix Spike (B7C0042-MS1)	**Source: 0703017-02**									
Antimony	66.6	Q4	2.6	mg/kg dry	132	ND	50	75-125		
Arsenic	506		2.6	"	526	2.96	96	75-125		
Barium	549		6.6	"	526	57.9	93	75-125		
Beryllium	12.8		0.13	"	13.2	0.210	95	75-125		
Cadmium	11.7		0.66	"	13.2	ND	89	75-125		
Chromium	56.8		1.3	"	52.6	9.81	89	75-125		
Cobalt	120		2.6	"	132	3.55	88	75-125		
Copper	64.6		5.3	"	65.8	8.20	86	75-125		
Lead	120		3.9	"	132	ND	91	75-125		
Molybdenum	123		6.6	"	132	ND	93	75-125		
Nickel	123		6.6	"	132	7.29	88	75-125		
Selenium	465		2.6	"	526	ND	88	75-125		
Silver	11.9		1.3	"	13.2	ND	90	75-125		
Thallium	437		6.6	"	526	ND	83	75-125		
Vanadium	140		2.6	"	132	19.7	91	75-125		
Zinc	145		11	"	132	22.6	93	75-125		
Matrix Spike Dup (B7C0042-MSD1)	**Source: 0703017-02**									
Antimony	70.9	Q4	2.6	mg/kg dry	132	ND	54	75-125	6	20
Arsenic	530		2.6	"	526	2.96	100	75-125	5	20
Barium	566		6.6	"	526	57.9	97	75-125	3	20
Beryllium	13.3		0.13	"	13.2	0.210	99	75-125	4	20
Cadmium	12.2		0.66	"	13.2	ND	92	75-125	4	20
Chromium	59.9		1.3	"	52.6	9.81	95	75-125	5	20
Cobalt	124		2.6	"	132	3.55	91	75-125	3	20
Copper	66.8		5.3	"	65.8	8.20	89	75-125	3	20
Lead	126		3.9	"	132	ND	95	75-125	5	20
Molybdenum	130		6.6	"	132	ND	98	75-125	6	20
Nickel	129		6.6	"	132	7.29	92	75-125	5	20
Selenium	487		2.6	"	526	ND	93	75-125	5	20
Silver	12.5		1.3	"	13.2	ND	95	75-125	5	20
Thallium	458		6.6	"	526	ND	87	75-125	5	20
Vanadium	149		2.6	"	132	19.7	98	75-125	6	20
Zinc	148		11	"	132	22.6	95	75-125	2	20
Reference (B7C0042-SRM1)										
Aluminum	307		100	mg/kg wet	309		99	62.49-137		
Antimony	235		2.0	"	213		110	60.75-140		
Arsenic	1050		2.0	"	930		113	65.98-134		
Barium	5.03		5.0	"	5.30		95	47.17-153		
Beryllium	19.4		0.10	"	18.8		103	81.38-118		
Cadmium	39.7		0.50	"	41.6		95	77.16-123		
Chromium	100		1.0	"	96.5		104	80.06-119		
Cobalt	138		2.0	"	140		99	82.42-118		
Copper	6190		8.0	"	6680		93	85.73-114		

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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
								Prepared: 03/06/07 Analyzed: 03/09/07		
Batch B7C0042 - 3050B Sld Acid Dig - Metals, ICP								Metals by EPA 6000/7000 Series Methods - Quality Control		
Reference (B7C0042-SRM1)										
Lead	209		3.0	"	224		93	74.82-125		
Nickel	54.9		5.0	"	56.8		97	76.58-123		
Selenium	39.9		2.0	"	37.0		108	47.57-152		
Silver	22.5		1.0	"	20.9		108	63.16-136		
Thallium	42.8		5.0	"	38.1		112	64.57-135		
Vanadium	69.3		2.0	"	65.8		105	80.55-119		
Zinc	178		8.0	"	175		102	72.97-127		
								Prepared: 03/07/07 Analyzed: 03/08/07		
Batch B7C0053 - Solids, Dry Weight (Prep) - Solids, Dry Weight								Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control		
Blank (B7C0053-BLK1)										
% Solids	ND	U	0	%						
Duplicate (B7C0053-DUP1)	**Source: 0703017-02**									
% Solids	76		0	%		76			0	20
								Prepared & Analyzed: 03/08/07		
Batch B7C0058 - 7473 Hg Prep - Mercury								Metals by EPA 6000/7000 Series Methods - Quality Control		
Blank (B7C0058-BLK1)										
Mercury	ND	U	0.025	mg/kg wet						
Matrix Spike (B7C0058-MS1)	**Source: 0703017-02**									
Mercury	0.340		0.033	mg/kg dry	0.331	0.0406	90	80-120		
Matrix Spike Dup (B7C0058-MSD1)	**Source: 0703017-02**									
Mercury	0.395		0.033	mg/kg dry	0.333	0.0406	106	80-120	16	20
Reference (B7C0058-SRM1)										
Mercury	0.411		0.025	mg/kg wet	0.447		92	80-120		

United States Environmental Protection Agency
Region 9 Laboratory
1337 S. 46th Street, Building 201, Richmond, CA 94804
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Project Manager:	Chris Lichens	**Site Cleanup Section 4**		**SDG:**	07065A
Project Number:	R07S28	**75 Hawthorne Street**		**Reported:**	03/14/07 14:49
Project:	Omega Chemical OU2 Winter 2007 IDW Profiling	**San Francisco CA, 94105**			

Qualifiers and Comments

Q4	The matrix spike and/or matrix spike duplicate associated with this sample did not meet recovery criteria for this analyte (see MS/MSD results for this batch in QC summary)
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