

Washington Remediation Project
1217 West Wayne Street
Washington, PA 15301
Telephone (724) 222-5605
Facsimile (724) 222-7336



Mr. James Webb
Project Manager
Division of Decommissioning/Waste Management
U.S. Nuclear Regulatory Commission
Mail Stop T-7E-18
Washington, D.C. 20555-0001

April 10, 2007

Re: Clarification of the Data Report from ORISE
Molycorp Washington, PA Decommissioning Project
License Number SMB-1393

Dear Mr. Webb:

The purpose of this letter is to clarify certain points in the March 13, 2007 ORISE report entitled: **Radiological Survey Results for Areas A1 North, A5A, A6, A2, and B2 at the Molycorp Washington Remediation Project, Washington, Pennsylvania (Docket No. 040-08778; TAC No. L52062; RFTA No. 06-007).**

Survey Units

Survey units that were sampled include Areas A5A, A6, A1 North, A1 South, and A1A. The ORISE report mistakenly indicates that Areas A2 and B2 were sampled. ORISE samples 1706S0030, 1706S0031, 1706S0032, and 1706S0033 were samples collected by the Pennsylvania Department of Environmental Protection (PADEP) Bureau of Radiation Protection (BRP) personnel in Area A1 South. ORISE samples 1706S0034, 1706S0035, 1706S0036, 1706S0037, and 1706S0038 were samples collected by PADEP BRP personnel in Area A1A.

Interlaboratory Sample Analyses

As described in the subject report, ORISE obtained seven stockpile samples for analytical comparison with Molycorp's contract laboratory. ORISE found general agreement between their results and those of the site contract laboratory with the exception of one sample.

The results in question for sample A1-I-S1-18 initially were incorrectly reported to Malcolm Pirnie, Inc. due to an incorrect weight entry in the initial calculation. The laboratory discovered this error and re-reported the results. The corrected laboratory report for this sample, provided in Attachment 1, generally agrees with the ORISE results.

Spot Remediation

Spot remedial excavations were performed at ORISE judgemental locations 7, 8, and 9 in Area A1 North in February 2007. Subsequent sampling/analysis at these locations demonstrated near background levels of residual activity. Analytical data are provided in Attachment 2.

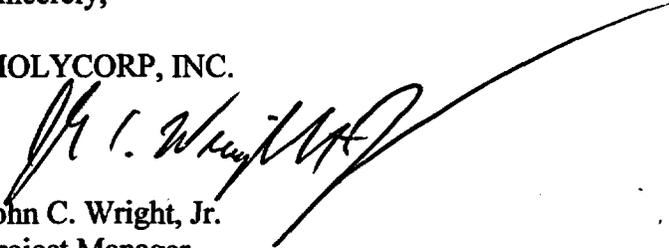
Mr. James Webb
Project Manager

April 10, 2007
page 2 of 2

If you have any questions, please contact me by phone, 724-222-5605, or email at jwright@chevron.com.

Sincerely,

MOLYCORP, INC.



John C. Wright, Jr.
Project Manager

Attachments:

1. Corrected Laboratory Report for Sample A1-I-S1-18
2. Post-Spot Remedial Excavation Sample Analysis Report for ORISE Judgemental Locations 7, 8 & 9

cc. John Nicholson, NRC
Robert Maiers, PADEP BRP
Dwight Shearer, PADEP BRP
George Dawes, Molycorp RSO
Shane Brightwell, Molycorp Asst RSO, CHP
Mark Lafferty, Chevron EMC
Al Shuckrow, Malcolm Pirnie

Attachment 1



Pace Analytical Services, Inc.
MS62, P.O. Box 158
Madison, PA 15663
Phone: 724.722.5214
Fax: 724.722.5208

February 22, 2007

REVIEWED BY Nichole Burt 3/7/07
APPROVED BY [Signature] 3/23/07

Dr. Alan J. Shuckrow
Malcolm-Pirnie, Inc
P.O. Box 1240
White Plains, NY 10602-1240

Soil Characterization; Purchase Order No. 4812032
A1 Stockpile; Molycorp; Washington, PA
Pace Project No. 06-5994

Dear Dr. Shuckrow:

Enclosed are analytical results for samples submitted by Malcolm-Pirnie, Inc. Samples were received on November 14, 2006 and logged in for analysis on November 16, 2006.

Methods used are indicated on the attached data tables. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:jac

Enclosures

cc: Kate Candillo
Nichole Burt

PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 06-5994
CLIENT: Purchase Order Number: 4812032

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0611-0836	A1-I-S1-17	0611-0837	A1-I-S1-18
0611-0838	A1-I-S1-19		

C: SHIPPING/RECEIVING COMMENTS:

Final Report 02/22/07.

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on a dry weight basis.

0000002

0000004

Table 1
(Continued)

Page 2 of 3

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act ± Unc (MDC)	
				0611-0837	
				A1-I-S1-18	
				(11/14/06)	
Ra-226	EPA 901.1M	pCi/g	11/21/06	5.19 ± 0.757	(0.258)
Ra-228	EPA 901.1M	pCi/g	11/21/06	5.25 ± 0.260	(0.029)
Th-228	EPA 901.1M	pCi/g	11/21/06	5.25 ± 0.260	(0.029)
Th-230	EPA 901.1M	pCi/g	11/21/06	3.80 ± 2.05	(0.620)
Th-232	EPA 901.1M	pCi/g	11/21/06	5.25 ± 0.260	(0.029)
U-234	EPA 901.1M	pCi/g	11/21/06	3.80 ± 2.05	(0.620)
U-235	EPA 901.1M	pCi/g	11/21/06	0.283 ± 0.041	(0.113)
U-238	EPA 901.1M	pCi/g	11/21/06	3.80 ± 2.05	(0.620)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Attachment 2

February 27, 2007

Dr. Alan J. Shuckrow
Malcolm-Pirnie, Inc
1217 West Wayne Street
Washington, PA 15301

REVIEWED BY Nichole Burt 3/1/07
APPROVED BY [Signature] 3/27/07

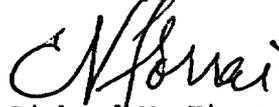
Soil Characterization; Purchase Order No. 4812032
A1 N FSS; Molycorp; Washington, PA
Pace Project No. 07-0850

Dear Dr. Shuckrow:

Enclosed are analytical results for samples submitted by Malcolm-Pirnie, Inc. Samples were received and logged in for analysis on February 12, 2007.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,



Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:jac

Enclosures

cc: Kate Candillo
Nichole Burt

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 07-0850
CLIENT: Purchase Order Number: 4812032

B: SAMPLE IDENTIFICATIONS:

Pace ID	Client ID	Pace ID	Client ID
0702-0612	1706-S-0007-V1	0702-0613	1706-S-0008-V1
0702-0614	1706-S-0009-V1		

C: SHIPPING/RECEIVING COMMENTS:

Final Report 02/22/07.

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on a dry weight basis.

0000002

0000003

Table 1
General Data Table
Malcolm-Pirnie, Inc.
Pace Project No. 07-0850
Soil Characterization; Al N FSS
Charge Order No. 4812032; Molycorp; Washington, PA

Page 1 of 3

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act + Unc (MDC)	
				0702-0612	
				1706-S-0007-V1	
				(2/12/07)	
Ra-226	EPA 901.1M	pCi/g	02/15/07	2.16 ± 0.394	(0.178)
Ra-228	EPA 901.1M	pCi/g	02/15/07	1.38 ± 0.099	(0.015)
Th-228	EPA 901.1M	pCi/g	02/15/07	1.38 ± 0.099	(0.015)
Th-230	EPA 901.1M	pCi/g	02/15/07	1.67 ± 0.842	(0.390)
Th-232	EPA 901.1M	pCi/g	02/15/07	1.38 ± 0.099	(0.015)
U-234	EPA 901.1M	pCi/g	02/15/07	1.67 ± 0.842	(0.390)
U-235	EPA 901.1M	pCi/g	02/15/07	0.130 ± 0.023	(0.053)
U-238	EPA 901.1M	pCi/g	02/15/07	1.67 ± 0.842	(0.390)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

0000004

Table 1
(Continued)

Page 2 of 3

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act + Unc (MDC)	
				0702-0613	
				1706-S-0008-V1	
				(2/12/07)	
Ra-226	EPA 901.1M	pCi/g	02/15/07	2.91 ± 0.464	(0.144)
Ra-228	EPA 901.1M	pCi/g	02/15/07	1.37 ± 0.099	(0.014)
Th-228	EPA 901.1M	pCi/g	02/15/07	1.37 ± 0.099	(0.014)
Th-230	EPA 901.1M	pCi/g	02/15/07	1.83 ± 1.15	(0.552)
Th-232	EPA 901.1M	pCi/g	02/15/07	1.37 ± 0.099	(0.014)
U-234	EPA 901.1M	pCi/g	02/15/07	1.83 ± 1.15	(0.552)
U-235	EPA 901.1M	pCi/g	02/15/07	0.128 ± 0.021	(0.055)
U-238	EPA 901.1M	pCi/g	02/15/07	1.83 ± 1.15	(0.552)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

5000005

Table 1
(Continued)

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act + Unc (MDC)	
				0702-0614	
				1706-S-0009-V1	
				(2/12/07)	
Ra-226	EPA 901.1M	pCi/g	02/15/07	2.45 ± 0.572	(0.181)
Ra-228	EPA 901.1M	pCi/g	02/15/07	1.47 ± 0.106	(0.018)
Th-228	EPA 901.1M	pCi/g	02/15/07	1.47 ± 0.106	(0.018)
Th-230	EPA 901.1M	pCi/g	02/15/07	2.30 ± 0.737	(0.526)
Th-232	EPA 901.1M	pCi/g	02/15/07	1.47 ± 0.106	(0.018)
U-234	EPA 901.1M	pCi/g	02/15/07	2.30 ± 0.737	(0.526)
U-235	EPA 901.1M	pCi/g	02/15/07	0.101 ± 0.023	(0.069)
U-238	EPA 901.1M	pCi/g	02/15/07	2.30 ± 0.737	(0.526)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

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Ship To: Pace Analytical Services, Inc.
 c/o Westinghouse Electric Co.
 Exit 54, Interstate Rt. 70
 Madison, PA 15663 (724) 722-5214

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: of

Required Client Information: Section A		Required Client Information: Section B		Client Information (Check quote/contract):		To Be Completed by Pace Analytical Client: Section C	
Company: Malcolm Pirnie		Report To: Al Shuckrow		Requested Due Date:		Quote Reference:	
Address: 1217 West Wayne Street		Copy To: Kate Candillo		*TAT: Standard		Project Manager: Ed Forrai	
Washington, PA 15301		Invoice To:		* Turn around times less than 14 days subject		Project #:	
Phone: 724-223-1318 Fax 724-223-1319		P.O.:		Laboratory and contractual obligations and may		Profile #:	
		Project Name: AIN PSS		In a Rush Turnaround Service.		07-0850	
		Project Number: #:		Turn Around Time (TAT) in calendar days.			

ITEM NUMBER	Required Client Information: Section D										Preservatives										REMARKS / Lab ID							
	SAMPLE ID (One character per box.)										Matrix Code	DATE COLLECTED	TIME COLLECTED	# Containers	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3		Methanol	NJ PWTA 48 hr. Gross Alpha	U-238	Th-232	Pg-230		
1	1	0	-	-	0	7	Y				SL	2/12/07											X					8702-0612
2	1	0	-	-	0	8	Y				SL	2/12/07											X					-0613
3	1	0	-	-	0	9	Y				SL	2/12/07											X					-0614
4																												MB - 0615
5																												
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10																												
11																												
12																												

SHIPMENT METHOD	AIRBILL NO	SHIPPING DATE	NO OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Pace Carrier		2/12/07	1		Nichole Burt	2/12/07		Jetty Budge	2/12	

SAMPLE CONDITION: SAMPLE NOTES:

Temp in C	<u> </u>
Received on Ice	<u>Y/N</u>
Sealed Cooler	<u>Y/N</u>
Sample Intact	<u>Y/N</u>

SAMPLER NAME AND SIGNATURE: Nichole Burt

PRINT Name of SAMPLER: Nichole Burt

SIGNATURE of SAMPLER: Nichole Burt

DATE Signed: 2/12/07

Additional Comments: