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**WILDCAT COAL FINES ISSUE
DIVISION ORDER-04 (WIND BLOWN FINES)
FIRST QUARTER 2015**

March 2015

Prepared for:

WILD WEST EQUIPMENT & HAULING, LLC



Prepared by:

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INTRODUCTION

The purpose of this report is to provide quarterly information on coal fines accumulation at the Wildcat Loadout as described in Appendix P, Response to Division Order DO-04 (Wind Blown Fines), Page 7, “Conduct future monitoring of wind-blown fines”. The coal fines monitoring procedure was revised as per DOGM’s meeting at Wildcat conducted on January 23, 2014.

PROCEDURE

On March 16, 2015, I conducted the 1st Quarter coal fines monitoring procedure at the Wildcat Loadout. New monitoring points were installed during the first quarter of 2014. The new procedure was described in a memo sent to Pete Hess (DOGM) dated March 13, 2014. This new procedure described the method for future coal fines and vegetation monitoring at the Wildcat Loadout. The approved procedure required the installation of new monitoring points within the permit boundary and also outside of the permit boundary. Monitoring of vegetation growth will now be conducted only during the 2nd Quarter of each year.

There are now 21 sampling points on the north area and 16 sampling points on the south area. Figure 1 shows the sampling points and Figure 2 shows the areas that are of concern. Each point was located with a GPS. Refer to Appendix 1 for the GPS coordinate location of each point.

The depth of coal fines were measured at the stake. These measurements can be found on the Ground Cover Information Spreadsheet in Appendix 2. The average coal depth for the North and South area was calculated and is also shown on this sheet.

CONCLUSION

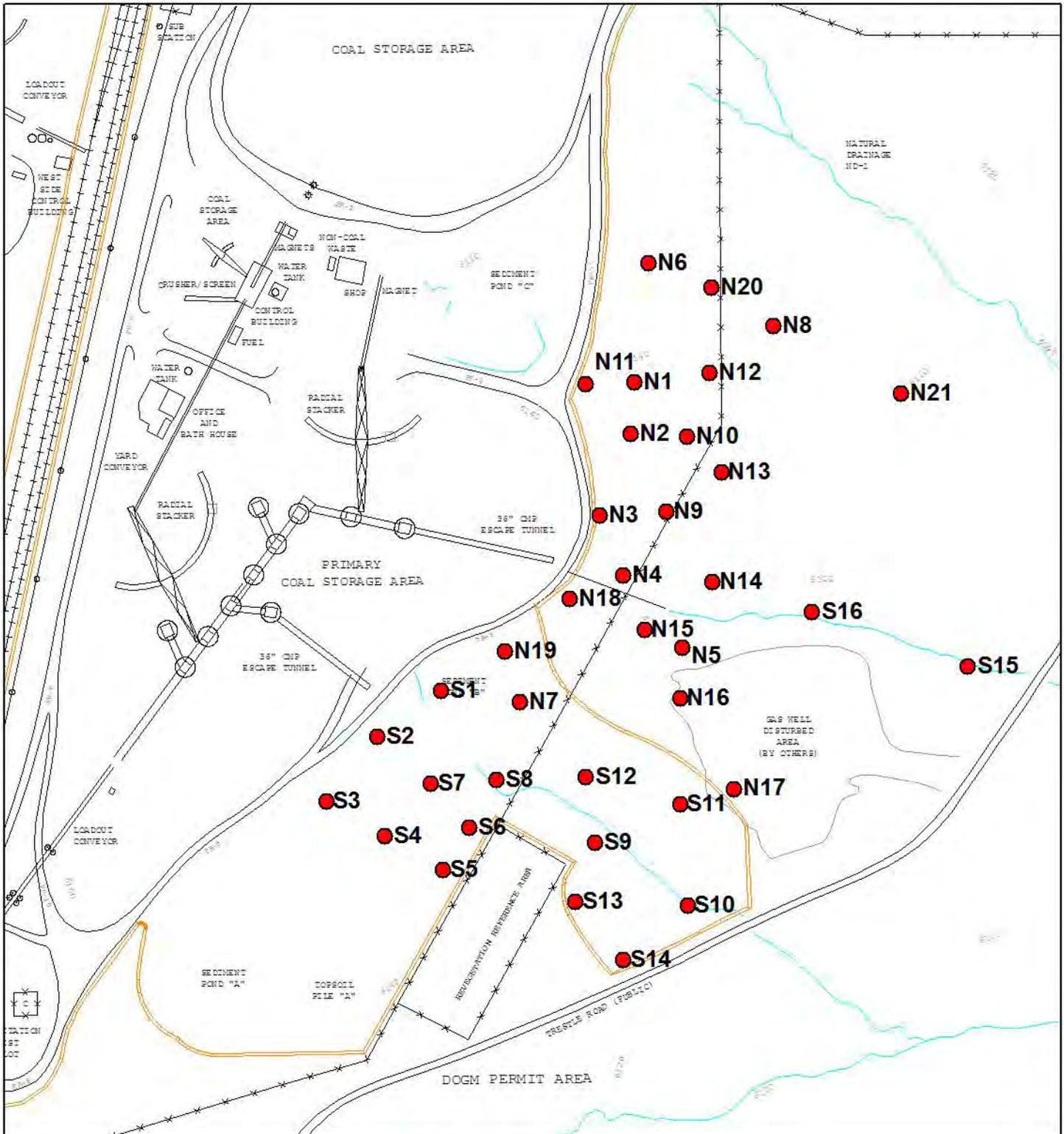
The results of the coal fines measurements indicated that the coal fines are slightly more extensive on the north sampling area. The fines average 0.32 inches on the north area compared to 0.26 inches on the southern area. The average coal depth on the northern area decreased from 0.51 inches to 0.32 inches and the average coal depth on the southern area increased slightly from 0.22 to 0.26 inches.

Site N9 had 3 inches of soil over coal fines during this measurement period. This site during the 4th Quarter 2014 measurement had 4.5 inches of coal fines. It appears that high flows of water moves soil and coal fines in and out of this area.

Vegetation reclamation work conducted in the spring of 2014 still has not produced much new vegetation. This reclamation work was to re-establish vegetation after coal fines greater than 4 inches were removed. These reclaimed areas have developed a hard crust. The hard crust is making it difficult for new vegetation to start growing. Please refer to the photographs located and the end of the photograph section.

The new wind fences installed in the spring of 2014 seemed to have helped controlled the accumulation of coal fines in the north and south areas.

WILDCAT LOADOUT



● Random Photograph Sites

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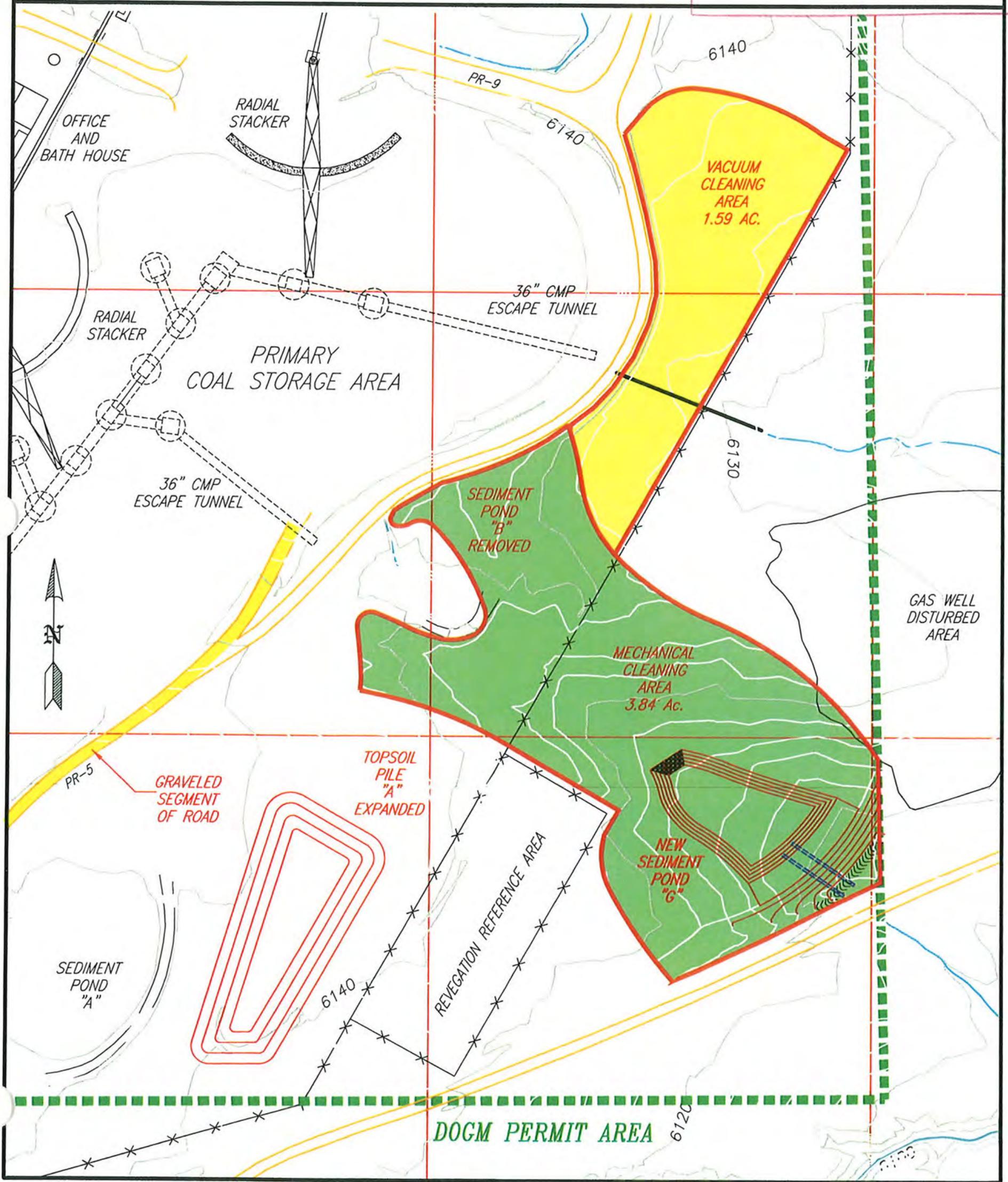
FIGURE 1

INCORPORATED
EFFECTIVE:

OCT 18 2010

UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

WILDCAT LOADOUT
COAL FINES CLEAN-UP AREA
RESPONSE TO D0-04
FIGURE 2



APPENDIX 1
GPS COORDINATE LOCATION

Wildcat Loadout
Random Photograph Site Coordinates
All Coordinates in NAD 83

Name	Northing	Easting
N1	4388883.298	507251.984
N2	4388857.593	507250.164
N3	4388817.239	507234.904
N4	4388787.278	507246.718
N5	4388751.355	507276.069
N6	4388942.709	507259.085
N7	4388724.731	507187.675
N8	4388911.456	507321.233
N9	4388817.19	507263.082
N10	4388856.487	507278.12
N11	4388882.392	507227.824
N12	4388887.813	507289.428
N13	4388600.376	507323.119
N14	4388580.381	507311.915
N15	4388560.83	507300.496
N16	4388540.265	507287.518
N17	4388877.752	507384.593
N18	4388775.637	507220.054
N19	4388749.681	507187.688
N20	4388930.365	507290.383
N21	4388877.752	507384.593
S1	4388730.197	507148.488
S2	4388707.485	507124.338
S3	4388675.136	507091.473
S4	4388657.906	507120.464
S5	4388641.241	507149.536
S6	4388662.058	507162.426
S7	4388684.104	507143.486
S8	4388686.032	507175.9
S9	4388654.465	507224.755
S10	4388623.652	507270.843
S11	4388673.547	507267.177
S12	4388687.237	507220.312
S13	4388625.264	507215.195
S14	4388596.345	507239.016
S15	4388742.365	507417.549
S16	4388769.154	507340.304

APPENDIX 2

GROUND COVER INFORMATION SPREADSHEET & FIELD WORK SHEETS

GROUND COVER INFORMATION SPREADSHEET											
1st QUARTER 2015											
LOCATION	VEGETATION	VEGETATION	SOIL	SOIL	COAL FINES	COAL FINES	COAL FINES (IN)	COMMENTS			
	SQUARES	(COVER %)	SQUARES	(COVER %)	SQUARES	(COVER %)	AT STAKE				
N1		0.00		0.00		0.00	0.00	Trace amounts are recorded as 0.00 depth			
N2		0.00		0.00		0.00	0.00				
N3		0.00		0.00		0.00	0.00				
N4		0.00		0.00		0.00	0.00				
N5		0.00		0.00		0.00	0.00	Trace amounts are recorded as 0.00 depth			
N6		0.00		0.00		0.00	0.25				
N7		0.00		0.00		0.00	2.00				
N8		0.00		0.00		0.00	0.00				
N9		0.00		0.00		0.00	0.00	Trace amount, 3" soil over coal			
N10		0.00		0.00		0.00	0.00				
N11		0.00		0.00		0.00	1.00				
N12		0.00		0.00		0.00	0.00				
N13		0.00		0.00		0.00	0.25				
N14		0.00		0.00		0.00	0.00				
N15		0.00		0.00		0.00	0.00	Trace amounts are recorded as 0.00 depth			
N16		0.00		0.00		0.00	0.00				
N17		0.00		0.00		0.00	0.00	Trace amounts are recorded as 0.00 depth			
N18		0.00		0.00		0.00	0.00	Trace amounts are recorded as 0.00 depth			
N19		0.00		0.00		0.00	3.00				
N20		0.00		0.00		0.00	0.25				
N21		0.00		0.00		0.00	0.00				
AVERAGE		0.00		0.00		0.00	0.32				
S1		0.00		0.00		0.00	3.00	Signs of past water flows			
S2		0.00		0.00		0.00	0.00	Trace amounts are recorded as 0.00 depth (Water Flows)			
S3		0.00		0.00		0.00	0.00	Trace amounts are recorded as 0.00 depth			
S4		0.00		0.00		0.00	0.00				
S5		0.00		0.00		0.00	0.00				
S6		0.00		0.00		0.00	0.13				
S7		0.00		0.00		0.00	0.00	Trace amounts are recorded as 0.00 depth			
S8		0.00		0.00		0.00	0.25				
S9		0.00		0.00		0.00	0.25				
S10		0.00		0.00		0.00	0.00	Trace amounts are recorded as 0.00 depth			
S11		0.00		0.00		0.00	0.00				
S12		0.00		0.00		0.00	0.50				
S13		0.00		0.00		0.00	0.00	Trace amounts are recorded as 0.00 depth			
S14		0.00		0.00		0.00	0.00	Trace amounts are recorded as 0.00 depth			
S15		0.00		0.00		0.00	0.00				
S16		0.00		0.00		0.00	0.00				
AVERAGE		0.00		0.00		0.00	0.26				

APPENDIX 3
PHOTOGRAPHS

PHOTOGRAPHS



N1



N2



N3



N4



N5



N6



N7



N8



N9



N10



N1



N2



N13



N14



N15



N16



N17



N18



N19



N20



N21



S1



S2



S3



S4



S5



S6



S7



S8



S9



S10



S11



S12



S13



S14



S15



S16



ABOVE N6 LOOKING SOUTHEAST



AT N16 LOOKING NORTHWEST