



TECHNICAL MEMORANDUM

DATE January 30, 2025

Reference No. CA0044106.3476-003-TM-Rev0

TO Pascal Poirier and Trevor Brisco
Baffinland Iron Mines Corporation

CC Avirup Kar

FROM Carrie Jewiss, Evelyn Tennant, and Ken DeVos

EMAIL carrie.jewiss@wsp.com;
evelyn.tennant@wsp.com;
ken.devos@wsp.com

WASTE ROCK FACILITY DRILLING AND SAMPLING CAMPAIGN, COVER REQUIREMENT EVALUATION – BAFFINLAND IRON MINES MARY RIVER PROJECT

1.0 INTRODUCTION

WSP Canada Inc (WSP) was retained by Baffinland Iron Mine Corp. (BIM) to investigate the base material (defined as waste not covered by the 4 m of Non-AG during the 2024 progressive reclamation) of the waste rock pile. The objective was to identify and confirm, through testing and analysis, whether the material is classified as acid-generating (PAG) or non-acid-generating (Non-AG) waste, and to determine if an additional 4 m of Non-AG waste cover is required, in accordance with the BIM Phase 1 Waste Rock Management Plan (WRMP) (BIM 2024a). WSP understands there is a regulatory requirement to ensure that no more than 15% of the total waste dump surface consists of exposed PAG waste.

This document outlines the drilling, sampling and testing program undertaken in 2024 to evaluate acid generation characteristics of the base material in specified zones of the WRF. The test results are evaluated used to determine if the base material in these zones is already considered to be part of the cover, by definition, due to the thickness (4 m) and Non-AG characteristics of existing materials in these zones and therefore does not require additional Non-AG cover material.

2.0 GEOCHEMISTRY CLASSIFICATION SUMMARY

For the BIM Mary River Deposit 1, a field classification system was developed in 2019, involving the testing of drillhole cuttings from blastholes and measuring the paste pH and total sulphur (% S) content. Table 2-1 outlines this field classification used to differentiate PAG and Non-AG waste rock for deposition within the WRF. Table 2-2 outlines the MEND (2009) classification for acid generation potential from neutralisation potential ratio (NPR), for samples where acid base accounting (ABA) results are available.

Table 2-1: Acid Generation Potential Criteria Field Classification – BIM Mary River Site

Acid Generation Potential	Criteria
Treat as Potentially Acid Generation (PAG)	Total Sulphur ≥ 0.2 wt% as S
Treat as Potentially Acid Generation (PAG)	Total Sulphur < 0.2 wt% as S and paste pH ≤ 6
Treat as Non-Potentially Acid Generation (Non-AG)	Total Sulphur < 0.2 wt% as S and paste pH > 6

Table 2-2: Acid Generation Potential Criteria (Neutralisation Potential Ratio) – MEND 2009

Acid Generation Potential	Criteria
Potentially Acid Generating (PAG)	NPR < 1
Uncertain	$1 \leq \text{NPR} \leq 2$
Non-Potentially Acid Generating (Non-AG)	NPR > 2

3.0 DRILLING, SAMPLING AND ANALYSIS

3.1 Drilling

Under guidance by WSP, BIM undertook a drilling program of 736 drill holes within the WRF in Q4 2024. In this drilling program key areas were drilled in four “zones” of the base material for confirmatory testing, as displayed in Figure 3-1.

- Zone 1 represents the outer portion around the WRF, within 4 m of the crest of the WRF (Table 3-1).
- Zones 2 and 3 represent the area proximal to the outer portion around the WRF, greater than 4 m from the crest of the WRF (Table 3-1).
- Zone 4 represents the internal WRF zones (Table 3-1).

Table 3-1: Surface Area and Percentage of WRF Cover by Zone

Zone	Surface Area (m ²)	Percentage of WRF Surface Area (%)
Zone 1	44,955	12
Zone 2	15,206	4
Zone 3	2,374	1
Zone 4	39,434	10

Note: Data as provided by BIM, January 28, 2025.

As part of this drilling program, BIM drilled and sampled on a 10 × 10 m grid within Zone 4, and the southern portion of Zone 1. In Zones 2 and 3 and through much of Zone 1, the sloped edge of the WRF prevented the application of a 10 × 10 m grid, as such drilling was conducted on a 10 × 5 m grid to ensure the sample number by area was consistent, with analyses conducted on a 20 × 5 m grid. All holes were drilled to a depth of approximately 4 m.

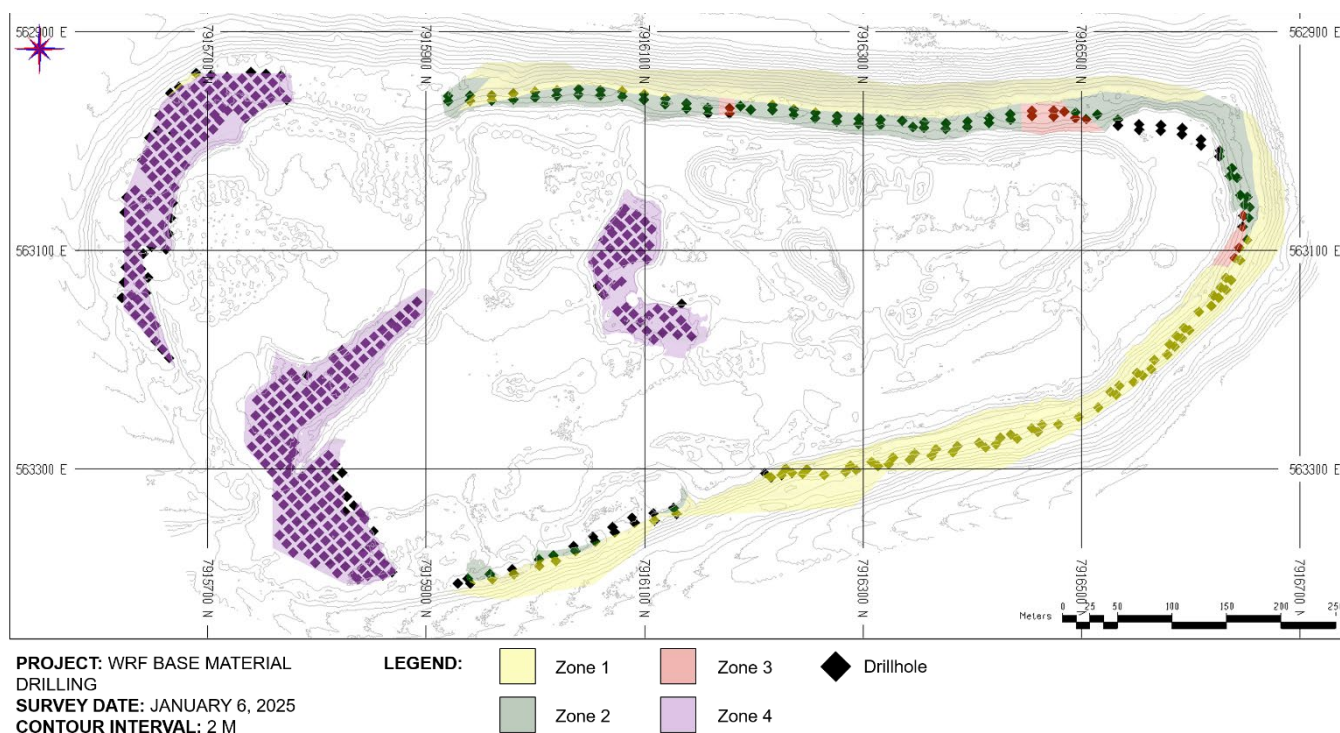


Figure 3-1: Locations of Waste Rock Facility Base Material Drilling Zones 1 to 4

3.2 Sample Collection

A composite sample of the full 4 m drill length was taken from the drill cuttings for every drill hole. Where possible, an upper and lower sample was taken for the drill hole in tandem with the composite sample. This was achieved by splitting the drill cone in two vertically, with one side of the drill cone considered a 4 m composite sample, and the other side sampled in two stages, to be representative of the two depth fractions. The top half (outer portion, Figure 3-2), is considered to be representative of the 2-4 m fraction, and the bottom half (inner portion, Figure 3-2) of the cone is considered to be representative of the 0-2 m fraction.

Composite samples from 504 drill holes were submitted for analysis. A subset of drill holes (~ 10%) was also analysed for the 0-2 m and 2-4 m fractions to compare to the composite sample and to evaluate potential variability with depth.

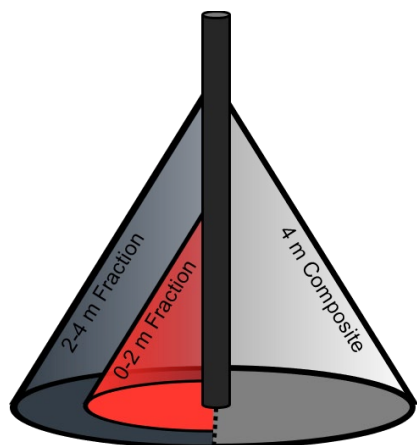


Figure 3-2: Dual Depth Drill Cutting Samples

3.3 Shipping and Laboratory Analysis

All composite samples were analysed at the BIM onsite laboratory for total sulphur and paste pH. A subset of the composite samples ($n = 69$), as well as all samples classified as PAG based on paste pH and total sulphur field testing ($n = 33$), were shipped to ALS (Vancouver B.C.) for additional analysis following appropriate chain of custody (COC) procedures. These samples underwent acid base accounting (ABA) analysis including neutralisation potential (NP), acid potential (AP) (calculated from sulphide sulphur), maximum potential acidity (MPA) (calculated from total S) fizz ratio, paste pH, total sulphur, sulphate sulphur, sulphide sulphur (calculated), total inorganic carbon, total carbon and net acid generation (NAG pH).

4.0 RESULTS

Figure 4-1 provides a graphical representation of sample locations and test results for each of the zones. The zones and test results for each zone are described herein. Full results are provided in Attachment 1.

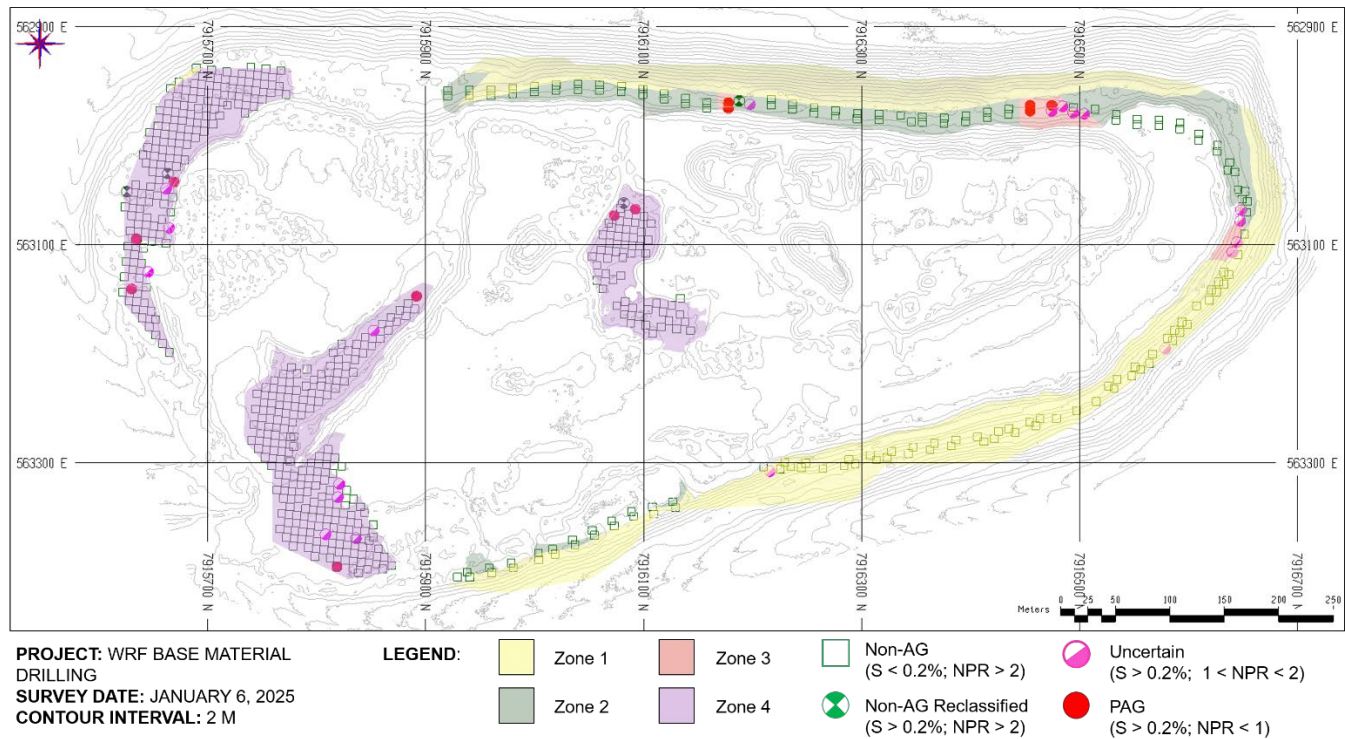


Figure 4-1: Drillhole Classifications within Waste Rock Facility Base Material Drilling Zones

4.1 Zone 1

Since the 2019 interim waste rock management plan was issued, BIM has placed material within the WRF using thin lifts to promote freezing and placement of Non-AG material around the 4 m exterior edges of the pile. Zone 1 materials are located along this outer edge of the waste rock pile. Due to the slope of the pile outer limits Zone 1 areas were not always safely accessible for drilling however 75 samples of Zone 1 materials were collected and analysed to confirm the composition of these materials.

4.1.1 Composite Paste pH and Total Sulphur Testing

Composite testing was conducted on 75 samples within Zone 1, with the majority of drill holes (n = 67) falling within the eastern portion of the ring road. This testing indicated that 97% of all samples (73 of 75) met the non-PAG criteria with a paste pH of greater than 6, and a total sulphur concentration of less than 0.2 % S. The two samples that did not meet the criteria all had a paste pH of greater than 6, and a total sulphur concentration of 0.21 and 0.24% S (Table 4-1).

Table 4-1: Zone 1 Composite Sample Statistics – Field Parameters

Statistic	Paste pH	Total Sulfur (% S)
Count	75	75
Average	8.2	0.0371
Minimum	7.1	0.0050
25th Percentile	8.0	0.016
Median	8.2	0.026
75th Percentile	8.6	0.041
95th Percentile	8.8	0.097
Maximum	9.1	0.24

4.1.2 Additional Analysis on PAG samples

Both PAG-identified samples were sent for full ABA analysis at ALS following paste pH and total sulphur analysis at the onsite laboratory. The results of the secondary investigation indicate that both samples were re-assessed as Uncertain with an NPR between 1-2 (Table 4-2). Sample classifications in Zone 1, in consideration of the laboratory assessment, are displayed in Figure 4-1.

Table 4-2: Summary of ABA Analysis on Field-Classified PAG Samples in Zone 1

Hole ID	Field Parameters		Lab Parameters							Classifications	
	Total Sulphur (XRF)	Paste pH	Total Sulphur	Paste pH	Total Carbon	NP	Sulphate ^(a)	NPR	NAG pH	Field	Reassessed
Units	%	pH Units	%	pH Units	% C	kg CaCO ₃ /t	%	NP/MPA	pH Units	--	--
205	0.212	7.4	0.19	7.7	0.01	10	0.03	1.68	9	PAG	Uncertain
244	0.237	8.8	0.26	8.5	0.03	10	0.01	1.23	8.8	PAG	Uncertain

(a) HCl-Leachable.

When considering the method of placement outlined in the WRMP corroborated with the 75 samples analysed in Zone 1, Zone 1 is considered Non-AG and already meets the definition of cover material, thus does not require an additional 4 m of Non-AG material. The limited amounts of sulphide minerals, current paste pH, and the average NP for the Zone 1 materials (based on the confirmatory ABA testing) confirm that the overall Zone 1 area is Non-AG and the upper 4 m is considered cover material.

4.2 Zone 2

Zone 2 is located along the upper edge of the pile, generally located as close as reasonably possible to the edge of the pile with the exception of the northwest boundary where the drill holes were set-back slightly from the pile edge (Figure 3-1).

4.2.1 Composite Paste pH and Total Sulphur Analysis

Composite testing was conducted on 83 samples within Zone 2. This testing indicated that 98% of all composite samples (81 of 83) met the non-PAG criteria with a paste pH of greater than 6, and a total sulphur concentration of less than 0.2% S. The two samples that did not meet the criteria all had a paste pH of greater than 8, and a total sulphur concentration of 0.20 and 0.32% S (Table 4-3).

Table 4-3: Zone 2 Composite Sample Statistics – Field Parameters

Statistic	Paste pH	Total Sulfur (% S)
Count	83	83
Average	8.3	0.043
Minimum	7.5	0.0030
25th Percentile	8.1	0.017
Median	8.3	0.027
75th Percentile	8.6	0.051
95th Percentile	8.8	0.12
Maximum	9.2	0.32

4.2.2 Additional Analysis on PAG Samples

Both PAG-identified samples were sent for full ABA analysis at ALS following paste pH and total sulphur analysis at the onsite laboratory. The results of the secondary investigation indicate that one sample can be reclassified as Non-AG based on an NPR value of greater than two and the other sample was assessed as Uncertain with an NPR between 1-2 (Table 4-4). Sample classifications in Zone 2, in consideration of the laboratory assessment, are displayed in Figure 4-1.

Table 4-4: Summary of ABA Analysis on Field-Classified PAG Samples in Zone 2

Hole ID	Field Parameters		Lab Parameters							Classifications	
	Total Sulphur (XRF)	Paste pH	Total Sulphur	Paste pH	Total Carbon	NP	Sulphate ^(a)	NPR	NAG pH	Field	Reassessed
Units	%	pH Units	%	pH Units	% C	kg CaCO ₃ /t	%	NP/MPA	pH Units	--	--
138	0.203	8.1	0.19	7.9	0.05	13	0.01	2.19	9.6	PAG	Non-AG
339	0.322	8.4	0.32	8.1	0.07	17	0.02	1.7	9.2	PAG	Uncertain

(a) HCl-Leachable.

When considering the limited amounts of sulphide minerals, current paste pH, and the average NP for the Zone 2 materials (based on the confirmatory ABA testing) it is considered that there is sufficient buffering capacity in the materials within Zone 2 such that the overall area is Non-AG and do not require an additional 4 m Non-AG cover. The overall Zone 2 Base Material meets the definition of cover material and is considered as part of the cover.

4.3 Zone 3

Zone 3 was delineated based on field results as portions of the WRF classified as PAG.

4.3.1 Composite Paste pH and Total Sulphur Analysis

Composite testing was conducted on 13 samples within Zone 3. Since Zone 3 was delineated around portions of the WRF classified as PAG in the field, no composite samples in this zone met the non-PAG criteria with a paste pH of greater than 6, and a total sulphur concentration of less than 0.2% S. The thirteen samples all had a paste pH greater than 7, and a total sulphur range of 0.22 to 0.87% S. Of the thirteen samples, eight had a total sulphur concentration of less than 0.3% S, with the remaining five reporting values up to 0.87% S (Table 4-5).

Table 4-5: Cell 3 Composite Sample Statistics – Field Parameters

Statistic	Paste pH	Total Sulfur (% S)
Count	13	13
Average	7.7	0.34
Minimum	7.1	0.22
25th Percentile	7.5	0.24
Median	7.8	0.26
75th Percentile	8.1	0.35
95th Percentile	8.2	0.66
Maximum	8.2	0.87

4.3.2 Additional Analysis on PAG Samples

All thirteen PAG-identified samples were sent for full ABA analysis at ALS following paste pH and total sulphur analysis at the onsite laboratory. The results of the secondary investigation indicated that five samples were correctly identified as PAG in the field, and the other eight samples were assessed as Uncertain with an NPR between 1-2 (Table 4-6). Sample classifications in Zone 3, in consideration of the laboratory assessment, are displayed in Figure 4-1.

Table 4-6: Summary of ABA Analysis on Field-Classified PAG Samples in Zone 3

Hole ID	Field Parameters		Lab Parameters							Classifications	
	Total Sulphur (XRF)	Paste pH	Total Sulphur	Paste pH	Total Carbon	NP	Sulphate ^(a)	NPR	NAG pH	Field	Reassessed
Units	%	pH Units	%	pH Units	% C	kg CaCO ₃ /t	%	NP/MPA	pH Units	--	--
137	0.352	7.5	0.37	7.5	0.05	10	0.02	0.86	8.4	PAG	PAG
165	0.422	7.6	0.43	7.8	0.03	12	0.02	0.89	8	PAG	PAG
167	0.294	8.1	0.3	7.5	0.01	8	0.01	0.85	8.4	PAG	PAG
168	0.26	8.1	0.26	7.9	0.01	10	<0.01	1.23	9.1	PAG	Uncertain
337	0.871	7.8	0.9	7.4	0.03	11	0.02	0.39	5.9	PAG	PAG
365	0.515	7.5	0.54	7.5	0.09	8	0.02	0.47	5.5	PAG	PAG
367	0.226	8	0.22	7.5	0.01	8	<0.01	1.16	9	PAG	Uncertain
369	0.257	7.2	0.26	8.2	0.02	15	0.03	1.85	7.7	PAG	Uncertain
370	0.244	8.2	0.24	8	0.02	11	0.01	1.47	9.4	PAG	Uncertain
389	0.27	7.1	0.29	7.5	0.05	12	0.07	1.32	7.3	PAG	Uncertain
390	0.258	8.2	0.24	7.9	0.05	13	0.02	1.73	9.3	PAG	Uncertain
392	0.221	8.1	0.19	7.8	0.09	10	0.03	1.68	7.4	PAG	Uncertain
393	0.233	7.3	0.25	8.4	<0.01	13	0.02	1.66	7.3	PAG	Uncertain

(a) HCl-Leachable.

All of the Zone 3 material is PAG and, although this represents a small area of the overall pile, is considered as an exposed PAG area.

4.4 Zone 4

Zone 4 represents the internal WRF zones as identified in Figure 4-1.

4.4.1 Composite Paste pH and Total Sulphur Analysis

Composite testing was conducted on 333 samples within Zone 4. This testing indicated that 95% of all composite samples (316 of 333) met the non-PAG criteria with a paste pH of greater than 6, and a total sulphur concentration of less than 0.2% S. The 17 samples that did not meet the criteria all had a paste pH of greater than 7.5, and a total sulphur range of 0.20 to 0.43% S. Of the 17 samples, 12 had a total sulphur concentration of less than 0.3% S (Table 4-7).

Table 4-7: Cell 4 Composite Sample Statistics – Field Parameters

Statistic	Paste pH	Total Sulfur (% S)
Count	333	333
Average	8.6	0.055
Minimum	7.1	0.0040
25th Percentile	8.4	0.020
Median	8.6	0.031
75th Percentile	8.8	0.063
95th Percentile	9.1	0.20
Maximum	9.6	0.43

4.4.2 Additional Analysis on PAG Samples

All seventeen PAG composite samples, plus one duplicate PAG sample, were sent for full ABA analysis at ALS following paste pH and total sulphur analysis at the onsite laboratory. The results of the secondary investigation indicate that six samples remain classified as PAG, and seven other samples were assessed as Uncertain with an NPR between 1 to 2, and are dispersed within the Non-AG base material in Zone 4. The final four samples can be reclassified as Non-AG based on a NPR value of greater than two (Table 4-8) resulting in 320 of 333 or 96% of samples considered Non-AG. Sample classifications in Zone 4, in consideration of the laboratory assessment, are displayed in Figure 4-1.

Table 4-8: Summary of ABA Analysis on Field-Classified PAG Samples in Zone 4

Hole ID	Field Parameters		Lab Parameters							Classifications	
	Total Sulphur (XRF)	Paste pH	Total Sulphur	Paste pH	Total Carbon	NP	Sulphate ^(a)	NPR	NAG pH	Field	Reassessed
Units	%	pH Units	%	pH Units	% C	kg CaCO ₃ /t	%	NP/MPA	pH Units	--	--
7003	0.418	8.4	0.43	7.9	0.13	11	<0.01	0.82	5.9	PAG	PAG
7005	0.215	8.4	0.21	8	0.1	14	<0.01	2.13	7.9	PAG	Non-AG
7012	0.303	7.6	0.31	7.2	0.11	9	0.05	0.93	6.4	PAG	PAG
8037	0.202	8	0.2	7.6	0.08	9	0.01	1.44	7.2	PAG	Uncertain
8042	0.237	8	0.23	7.5	0.07	6	0.02	0.83	5.9	PAG	PAG
8150	0.238	8.6	0.22	8.2	0.06	12	<0.01	1.75	7.9	PAG	Uncertain
8158	0.268	8	0.25	7.8	0.04	10	<0.01	1.28	7.9	PAG	Uncertain
8170	0.272	8.3	0.26	8	0.04	15	0.01	1.85	7.3	PAG	Uncertain
8185 (Duplicate)	0.277	8.9	0.27	8	0.04	10	0.01	1.19	6.2	PAG	Uncertain
8188	0.411	8.4	0.42	8.2	0.09	12	0.04	0.91	5.6	PAG	PAG
3051	0.207	8.6	0.24	8.2	0.28	24	0.02	3.2	10.5	PAG	Non-AG
3075	0.237	8.5	0.23	8.4	0.23	24	0.03	3.34	10.2	PAG	Non-AG
3089	0.295	8.4	0.31	8.4	0.32	15	0.02	1.55	8.5	PAG	Uncertain
3090	0.241	8.1	0.26	8.1	0.47	6	0.03	0.74	8.3	PAG	PAG
3100	0.244	8.6	0.25	8.3	0.31	24	0.01	3.07	10.1	PAG	Non-AG
3110	0.429	8	0.41	8.2	0.15	21	0.02	1.64	9.4	PAG	Uncertain

Table 4-8: Summary of ABA Analysis on Field-Classified PAG Samples in Zone 4

Hole ID	Field Parameters		Lab Parameters							Classifications	
	Total Sulphur (XRF)	Paste pH	Total Sulphur	Paste pH	Total Carbon	NP	Sulphate ^(a)	NPR	NAG pH	Field	Reassessed
3116	0.328	7.9	0.3	8	0.15	4	0.02	0.43	8.5	PAG	PAG
3118	0.287	8.8	0.26	8.6	0.09	16	0.01	1.97	9.6	PAG	Uncertain

(a) HCl-Leachable.

When considering the limited amounts of sulphide minerals, current paste pH, and the average NP for the Zone 4 materials (based on the confirmatory ABA testing) it is considered that there is sufficient buffering capacity in Zone 4 materials such that the overall area is Non-AG and do not require an additional 4 m Non-AG cover. The overall Zone 4 Base Material meets the definition of cover material and is considered as part of the cover.

5.0 METHOD CONFIRMATION

Of the 504 drillholes analysed in the field for total sulphur and paste pH, 69 samples were additionally analysed for quality assurance (QA), and method confirmation purposes, this included 40 samples analysed in field duplicate, 69 samples analysed for ABA and NAG pH, and 29 samples analysed for the multi-depth fraction. Laboratory analyses confirmed the field classification of all these selected samples, with the exception of one sample.

A subset of composite samples were analysed in duplicate (n = 40), alongside multi-depth sampling representative of the 0 to 2 m and 2 to 4 m fractions (n = 29). Results indicated that overall, the samples had similar ranges of paste pH and total sulphur between the composite and duplicate samples, as well as between the two depth fractions. There were outliers noted and highlighted in grey in Table 5-1.

Overall, of the 40 drillholes analysed in duplicate, only one sample (2.5%) had a significant difference in total sulphur, resulting in a difference in classification. These results indicate that composite samples can be considered representative of the overall classification of the top 4 m of the waste rock pile.

Of the 69 samples sent for additional ABA and NAG pH testing, only one samples did not show agreement with the initial field classification. Total sulphur and paste pH values were comparable, but ABA data indicated a reclassification from PAG to Non-AG based on an NPR value of greater than two.

Table 5-1: Composite, Duplicate, 0-2 m and 2-4 m Sample Comparison

Drillhole ID	7026	7034	8028	8031	8039	8057	8061	8062	8089	8123	8136	8168	8169	8174	8177	8178	8180	8181	8185	8188	8190	8192	8193	8195	8196	8198	8204
Zone	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total Sulphur (% S)																											
Composite	0.016	0.12	0.051	0.009	0.064	0.021	0.077	0.060	0.025	0.030	0.035	0.078	0.018	0.051	0.074	0.072	0.054	0.032	0.011	0.411	0.015	0.033	0.024	0.19	0.027	0.032	0.027
Duplicate	0.023	0.082	0.048	0.006	0.072	0.012	0.047	0.047	0.011	0.055	0.035	0.071	0.018	0.066	0.059	0.072	0.051	0.030	0.277	0.505	0.032	0.029	0.024	0.17	0.037	0.030	0.062
0-2	0.027	-	-	-	-	-	0.081	0.092	-	-	-	0.063	-	-	0.067	0.037	0.064	0.029	-	0.09	0.024	0.021	0.022	0.17	0.016	0.031	0.034
2-4	0.016	-	-	-	-	-	0.092	0.081	-	-	-	0.089	-	-	0.076	0.062	0.039	0.030	-	1.3	0.032	0.054	0.016	0.17	0.075	0.029	0.035
Paste pH																											
Composite	8.9	8.8	8.4	8.5	7.9	8	8.5	8	8.8	8.9	8.8	8.7	8.7	8.5	8.5	7.9	8.7	8.7	8.8	8.4	8.8	8.9	8.8	8.4	8.4	8.6	8.8
Duplicate	8.5	8.1	8.5	8.4	8.1	8.2	8.7	8.7	8.8	8.9	8.8	8.7	8.5	9	8.7	7.9	8.7	8.5	8.9	8.3	8.7	8.7	8.8	8.5	8.5	8.6	8.7
0-2	8.4	-	-	-	-	-	8.1	8.7	-	-	-	8.7	-	-	8.7	8.6	8.9	8.7	-	8.3	8.7	8.8	8.8	8.5	8.6	8.6	8.8
2-4	8.9	-	-	-	-	-	8.7	8.1	-	-	-	8.8	-	-	8.7	7.9	8.5	8.6	-	8.2	8.7	8.3	8.8	8.3	8.4	8.5	8.8

Drillhole ID	3016	3054	3056	3059	3064	3069	3077	3100	3102	3114	3115	5005	5010
Zone	4	4	4	4	4	4	4	4	4	4	4	2	2
Total Sulphur (% S)													
Composite	0.026	0.022	0.035	0.043	0.064	0.046	0.12	0.24	0.029	0.063	0.055	0.016	0.044
Duplicate	0.016	0.023	0.028	0.025	0.061	0.054	0.13	0.28	0.047	0.039	0.067	0.024	0.055
0-2	0.030	0.023	0.026	0.019	0.043	0.054	0.18	0.55	0.032	0.057	0.061	0.025	0.047
2-4	0.033	0.019	0.021	0.045	0.10	0.031	0.12	0.25	0.038	0.064	0.076	0.006	0.033
Paste pH													
Composite	8.6	8.9	8.9	8.7	9	8.3	8.9	8.6	8.4	8.4	7.8	8.7	8.7
Duplicate	8.7	8.7	8.8	8.7	8.9	8.2	8.7	8.6	8.4	8.3	7.8	8.7	8.8
0-2	8.9	8.6	9.1	8.8	9.3	8	9.3	8	8.7	8.4	7.9	8.7	8.6
2-4	8.4	8.7	8.7	8.6	8.7	8.5	9	8.4	8.4	8.4	7.8	8.5	8.5

Notes: Grey highlighted columns indicate outlier samples. Drilling and sampling in Zones 2, 3, and portions of Zone 1 were undertaken prior to determination of QA procedure followed in Zone 4, despite this a representative number of duplicate samples were still taken within the footprint of the WRF to consider measurements taken from these zones reasonable and suitable for the intended purpose

6.0 SEEPAGE WATER QUALITY

A review of water quality results obtained through 2021 to 2024 (BIM 2022, 2023, 2024b, 2024 in progress) indicate that the current WRF design and cover is effective in reducing release of metals and acidity and maintaining neutral pH conditions. Annual increases in pH indicate an improvement in seepage water quality with time as illustrated in Figure 6-1. The runoff and seepage samples from 2024 had neutral pH values.

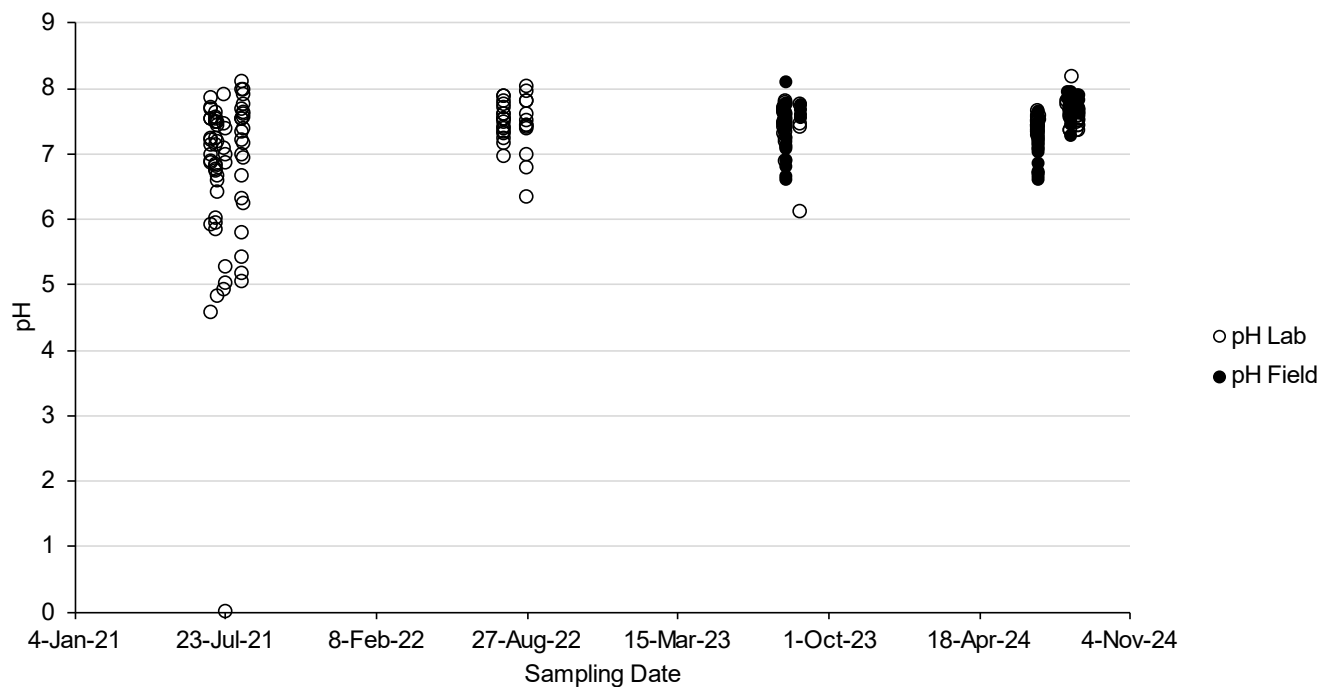


Figure 6-1: pH of Seepage Water Quality Over Time

7.0 DISCUSSION / SUMMARY

This document focuses on identifying the characteristics (PAG or Non-AG) of materials on the surface of the existing pile (base materials) and identifying which of these materials (based on Non-AG thickness of 4 m) meet the definition of cover material. The distribution of covered vs. uncovered materials for the overall pile will be evaluated in a separate document. A review of data quality indicates suitable consistency between samples collected in duplicate, and at varying depth fractions (0 to 2 m, 2 to 4 m). Therefore, the data collected throughout the WRF surface is suitable for the purposes of this assessment.

For Zone 3, the PAG or Uncertain classification of samples in the upper 4 m of the Zone 3 area indicate that this area of the WRF is considered an exposed PAG area.

For Zones 1, 2, and 4 results of the geochemical data from drill cuttings representative of the top 4 m of the WRF surface indicate that between 96% and 99% of the sample locations as shown in Figure 4-1 are classified as Non-AG. Based on the test results, all zones are considered Non-AG waste and meet the definition of cover materials; thus, do not require an additional 4 m Non-AG cover to be in compliance with BIM WRMP.

Seepage water quality data obtained throughout 2021 to 2024 show an increase in pH and reduction in release of acidity and metals, further confirming that the waste rock facility design and cover configuration is effective in reducing release of metals and acidity and maintaining neutral pH conditions.

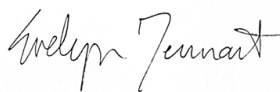
8.0 CLOSURE

We trust that the above meets your present requirements. If you have any questions or require additional information, please contact the undersigned.

WSP Canada Inc.



Carrie Jewiss, MSc
Environmental Scientist



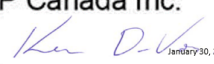
Evelyn Tennant, MSc
Environmental Scientist



Fellow, Senior Geochemist

CJ/ET/KDV/cb

Attachment 1: Sample Data and Analytical Results

PERMIT TO PRACTICE WSP Canada Inc.	
Signature _____	
Date _____	January 30, 2025
PERMIT NUMBER: P407	
NT/NU Association of Professional Engineers and Geoscientists	

[https://wsponlinecan.sharepoint.com/sites/ca-ca0044106.3476/shared documents/06. deliverables/3.0 issued/ca0044106.3476-003-tm-rev0/ca0044106.3476-003-tm-rev0-wrf assessment 30jan_25.docx](https://wsponlinecan.sharepoint.com/sites/ca-ca0044106.3476/shared%20documents/06.%20deliverables/3.0%20issued/ca0044106.3476-003-tm-rev0/ca0044106.3476-003-tm-rev0-wrf%20assessment%2030jan_25.docx)

REFERENCES

- BIM (Baffinland Iron Mines Corp.). 2022. Mary River Project – 2021 Qikiqtani Inuit Association (QIA) and Nunavut Water Board (NWB) Annual Report for Operations. March 31, 2022, Appendix E.6 Waste Rock Geochemistry Analytical Sampling Results.
- BIM. 2023. Mary River Project – 2022 Qikiqtani Inuit Association (QIA) and Nunavut Water Board (NWB) Annual Report for Operations. March 31, 2023, Appendix E.6 Waste Rock Geochemistry Analytical Sampling Results.
- BIM. 2024a. Phase I Waste Rock Management Plan. BAF-PH1-830-P16-0029, Rev 4.1. Issued April 2, 2024, 378 pages.
- BIM. 2024b. Mary River Project – 2023 Qikiqtani Inuit Association (QIA) and Nunavut Water Board (NWB) Annual Report for Operations. March 31, 2024, Appendix E.6 Waste Rock Geochemistry Analytical Sampling Results.
- BIM. In Progress 2024. Qikiqtani Inuit Association (QIA) and Nunavut Water Board (NWB) Annual Report for Operations.

ATTACHMENT 1

Sample Data and Analytical Results

Hole ID	Workorder ID	Cell	Zone	Sample Type	0-2m	2-4m	Composite	Duplicate	Easting	Northing	Elevation	Dry Weight	Mositure	Sulphur (XRF)	Paste pH
Units	--	--	--	--	m	m	--	--	m	m	m	kg	%	%	pH units
7002	BF24327179	1	4c	Composite	YES	YES	YES	NO	563079.92	7916068	623.913	0.72	12.2	0.073	8.6
7003	BF24327179	1	4c	Composite	YES	YES	YES	NO	563073.2	7916073	623.784	0.94	9.62	0.418	8.4
7004	BF24327179	1	4c	Composite	YES	YES	YES	NO	563066.36	7916079	623.852	1.21	7.63	0.037	9.1
7005	BF24327179	1	4c	Composite	YES	YES	YES	NO	563061.66	7916082	623.75	0.63	11.25	0.215	8.4
7008	BF24327179	1	4c	Composite	YES	YES	YES	NO	563090.66	7916063	623.792	0.97	10.2	0.026	8.4
7009	BF24327179	1	4c	Composite	YES	YES	YES	NO	563084.14	7916070	623.795	1.49	3.87	0.011	8.8
7010	BF24327179	1	4c	Composite	YES	YES	YES	NO	563077.99	7916078	623.883	1.94	8.49	0.017	9.1
7011	BF24327179	1	4c	Composite	YES	YES	YES	NO	563071.95	7916086	623.856	0.99	7.48	0.016	9.3
7012	BF24327179	1	4c	Composite	YES	YES	YES	NO	563067.24	7916092	623.825	1.37	5.52	0.303	7.6
7015	BF24327179	1	4c	Composite	YES	YES	YES	NO	563110.6	7916053	623.606	1	6.54	0.014	8.1
7016	BF24327179	1	4c	Composite	YES	YES	YES	NO	563104.44	7916061	623.712	1.07	6.14	0.024	8.6
7017	BF24327179	1	4c	Composite	YES	YES	YES	NO	563098.12	7916069	623.823	1.23	10.2	0.028	9.2
7018	BF24327179	1	4c	Composite	YES	YES	YES	NO	563092.07	7916077	624.101	1.51	7.93	0.022	8.5
7019	BF24327179	1	4c	Composite	YES	YES	YES	NO	563085.83	7916084	624.017	1.79	8.21	0.011	8.6
7020	BF24327179	1	4c	Composite	YES	YES	YES	NO	563079.68	7916092	623.81	1.72	8.99	0.03	9
7021	BF24327179	1	4c	Composite	YES	YES	YES	NO	563073.77	7916100	623.843	0.4	25.9	0.016	8.2
7024	BF24327179	1	4c	Composite	YES	YES	YES	NO	563118.58	7916057	623.983	1.02	11.3	0.035	8.1
7025	BF24327179	1	4c	Composite	YES	YES	YES	NO	563112.26	7916067	623.77	1.83	6.63	0.025	9.1
7026	BF24327179	1	4c	Composite	YES	YES	YES	YES	563106.15	7916075	623.742	1.02	9.73	0.016	8.9
7026	BF24327179	1	4c	Duplicate	YES	YES	YES	YES	563106.15	7916075	623.742	0.87	10.3	0.023	8.5
7026	BF24327179	1	4c	0-2	YES	YES	YES	YES	563106.15	7916075	623.742	0.8	6.98	0.027	8.4
7026	BF24327179	1	4c	2-4	YES	YES	YES	YES	563106.15	7916075	623.742	0.36	10	0.016	8.9
7027	BF24327179	1	4c	Composite	YES	YES	YES	NO	563099.97	7916083	623.881	1.04	14.05	0.035	8.6
7028	BF24327179	1	4c	Composite	YES	YES	YES	NO	563093.54	7916091	623.939	1.5	6.83	0.026	8.9
7029	BF24327179	1	4c	Composite	YES	YES	YES	NO	563088.12	7916098	623.997	1.27	10.55	0.04	8.4
7030	BF24327179	1	4c	Composite	YES	YES	YES	NO	563080.48	7916107	623.989	0.75	6.25	0.015	8.4
7033	BF24327179	1	4c	Composite	YES	YES	YES	NO	563132.47	7916057	625.119	0.91	12.5	0.032	8.4
7034	BF24327179	1	4c	Composite	NO	NO	YES	YES	563126.57	7916065	625	1.56	7.14	0.12	8.8
7034	BF24327179		4c	Duplicate	NO	NO	YES	YES	563126.57	7916065	625	1.47	5.77	0.082	8.1
7036	BF24327179	1	4c	Composite	YES	YES	YES	NO	563111.55	7916081	623.969	0.97	8.49	0.056	8.5
7037	BF24327179	1	4c	Composite	YES	YES	YES	NO	563107.84	7916089	624.078	1.49	5.7	0.022	8.7
7038	BF24327179	1	4c	Composite	YES	YES	YES	YES	563101.27	7916096	623.995	1.2	9.77	0.036	8.5
7039	BF24327179	1	4c	Composite	YES	YES	YES	NO	563095.39	7916104	624.058	1.93	8.53	0.039	8.5
7043	BF24327179	1	4c	Composite	YES	YES	YES	NO	563140.32	7916063	625.152	1.88	6	0.052	8.2
7044	BF24327179	1	4c	Composite	YES	YES	YES	YES	563131.84	7916072	625.474	0.81	7.95	0.105	8.5
7045	BF24327179	1	4c	Composite	YES	YES	YES	NO	563128.16	7916079	625.896	2.18	11	0.055	8.4
7048	BF24327179	1	4c	Composite	YES	YES	YES	NO	563108.06	7916102	623.968	1.32	6.38	0.048	8.7
7064	BF24327179	1	4c	Composite	YES	YES	YES	NO	563155.84	7916075	625.745	1.95	6.7	0.017	8.5
7065	BF24327179	1	4c	Composite	YES	YES	YES	NO	563152.13	7916083	625.917	1.57	8.19	0.024	8.6
7074	BF24327179	1	4c	Composite	YES	YES	YES	NO	563163.96	7916082	625.666	1.74	8.42	0.007	8.7
7075	BF24327179	1	4c	Composite	YES	YES	YES	NO	563157.85	7916090	625.868	1.41	6.62	0.068	8.5
7082	BF24327179	1	4c	Composite	YES	YES	YES	NO	563171.86	7916088	625.635	1.15	14.2	0.044	8.7
7083	BF24327179	1	4c	Composite	YES	YES	YES	YES	563165.58	7916096	625.507	0.85	8.6	0.017	8.9
7084	BF24327179	1	4c	Composite	YES	YES	YES	NO	563159.47	7916104	625.441	1.78	7.77	0.166	8.6
7085	BF24327179	1	4c	Composite	YES	YES	YES	NO	563153.41	7916112	625.656	1.6	5.88	0.03	8.7
7091	BF24327179	1	4c	Composite	YES	YES	YES	NO	563173.46	7916102	625.667	0.71	13.4	0.106	8.4
7093	BF24327179	1	4c	Composite	YES	YES	YES	NO	563161.28	7916118	625.562	1.23	10.85	0.027	8.6
7094	BF24327179	1	4c	Composite	YES	YES	YES	NO	563155.41	7916126	625.542	1.76	9.74	0.028	8.2
7095	BF24327658	1	4c	Composite	YES	YES	YES	NO	563148.93	7916134	625.433	1.59	10.65	0.004	8.6
7098	BF24327179	1	4c	Composite	YES	YES	YES	NO	563181.45	7916108	627.245	1.02	7.27	0.014	8.5
7099	BF24327658	1	4c	Composite	YES	YES	YES	NO	563175.3	7916116	625.78	2.14	7.36	0.131	8.4
7100	BF24327658	1	4c	Composite	YES	YES	YES	YES	563169.66	7916123	625.789	1.61	9.04	0.012	8.4
7101	BF24327658	1	4c	Composite	YES	YES	YES	NO	563163.66	7916133	625.541	1.64	9.89	0.007	8.6
7105	BF24327658	1	4c	Composite	YES	YES	YES	NO	563177.01	7916130	625.681	1.16	8.66	0.034	8.3
7106	BF24327658	1	4c	Composite	YES	YES	YES	NO	563170.67	7916138	625.535	1.75	9.79	0.008	8.6
7109	BF24327658	1	4c	Composite	YES	YES	YES	NO	563178.55	7916143	625.87	1.79	9.14	0.034	8.4
8000	BF24332800	2	4b	Composite	NO	NO	YES	NO	563236.65	7915745	623.226	1.29	9.79	0.018	8.6
8001	BF24332800	2	4b	Composite	NO	NO	YES	NO	563230.91	7915753	622.881	0.69	25.8	0.019	8.6
8002	BF24332800	2	4b	Composite	NO	NO	YES	NO	563224.53	7915761	622.132	1.85	10.2	0.043	8.9
8003	BF24332800	2	4b	Composite	NO	NO	YES	NO	563218.3	7915769	622.117	2.02	3.81	0.033	8.9
8004	BF24332800	2	4b	Composite	NO	NO	YES	NO	563212.15	7915777	621.884	1.95	7.58	0.014	8.8
8009	BF24332800	2	4b	Composite	NO	NO	YES	NO	563250.79	7915744	623.452	0.92	27	0.019	8.9
8010	BF24332800	2	4b	Composite	NO	NO	YES	NO	563244.73	7915752	623.078	0.61	19.75	0.032	8.8
8011	BF24332800	2	4b	Composite	NO	NO	YES	NO	563238.64	7915759	622.648	0.92	14	0.024	8.4
8012	BF24332800	2	4b	Composite	NO	NO	YES	NO	563232.47	7915767	622.611	1.03	16.25	0.068	8.7
8013	BF24332800	2	4b	Composite	NO	NO	YES	NO	563226.15	7915775	622.557	1.04	8.77	0.024	8.7
8014	BF24332800	2	4b	Composite	NO	NO	YES	NO	563217.96	7915782	622.123	1.27	13	0.036	8.2
8015	BF24332800	2	4b	Composite	NO	NO	YES	NO	563213.89	7915791	624.344	1.13	13.1	0.01	8.9
8018	BF24332800	2	4b	Composite	NO	NO	YES	NO	563198.68	7915815	622.51	2.13	6.58	0.04	8
8019	BF24332800	2	4b	Composite	NO	NO	YES	NO	563191.19	7915823	622.576	2.37	7.42	0.017	8.5
8023	BF24333618	2	4b	Composite	NO	NO	YES	NO	563264.89	7915742	623.445	1.07	25.7	0.027	8.2
8024	BF24332800	2	4b	Composite	NO	NO	YES	NO	563258.72	7915750	623.231	1.1	24.7	0.023	8.3
8025	BF24332800	2	4b	Composite	NO	NO	YES	NO	563252.01	7915758	623.238	1.22	22.8	0.019	8.7
8026	BF24332800	2	4b	Composite	NO	NO	YES	NO	563246.45	7915766	623.211	1.26	11.25	0.012	9.1
8027	BF24332800	2	4b	Composite	NO	NO	YES	NO	563240.21	7915774	623.091	0.95	9.52	0.027	8.1
8028	BF24330053	2	4b	Composite	NO	NO	YES	YES	563233.48	7915781	622.921	1.14	5.79	0.051	8.4
8028	BF24330053	2	4b	Duplicate	NO	NO	Yes	YES	563233.48	7915781	622.921	1.75	11.6	0.048	8.5
8029	BF24330053	2	4b	Composite	NO	NO	YES	NO	563229.43	7915790	622.535	3.26	6.32	0.011	8.5
8030	BF24330053	2	4b	Composite	NO	NO	YES	NO	563223.85	7915797	622.258	2.16	6.49	0.013	8.4
8031	BF24330053	2	4b	Composite	NO	NO	YES	YES	563218.46	7915804	621.968	1.17	6.4	0.009	8.5
8031	BF24330054	2	4b	Duplicate	NO	NO	YES	YES	563218.46	7915804	621.968	1.15	12.2	0.006	8.4
8032	BF24330053	2	4b	Composite	NO	NO	YES	NO	563210.89	7915813	621.655	2.55	10.55	0.012	8.5
8033	BF24330053	2	4b	Composite	NO	NO	YES	NO	563204.99	7915820	621.241	2.76	10.4	0.009	8.4
8034	BF24330053	2	4b	Composite	NO	NO	YES	NO	563197.06	7915829	621.222	1.77	9.23	0.011	8.4

Hole ID	Workorder ID	Cell	Zone	Sample Type	0-2m	2-4m	Composite	Duplicate	Easting	Northing	Elevation	Dry Weight	Mositure	Sulphur (XRF)	Paste pH
Units	--	--	--	--	m	m	--	--	m	m	m	kg	%	%	pH units
8040	BF24330053	2	4b	Composite	NO	NO	YES	NO	563160.01	7915876	620.416	1.76	4.35	0.076	8.4
8041	BF24330053	2	4b	Composite	NO	NO	YES	NO	563153.66	7915884	620.104	1.4	8.5	0.074	8.3
8042	BF24330053	2	4b	Composite	NO	NO	YES	NO	563147.12	7915892	620.206	1.91	8.17	0.237	8
8044		2	4b	Composite	no	no	yes	no	563279.38	7915740	624.497	5.86	7.42	0.018	8.6
8045		2	4b	Composite	no	no	yes	no	563272.75	7915748	623.917	8.5	6.49	0.011	8.8
8046	BF24332800	2	4b	Composite	NO	NO	YES	NO	563266.83	7915756	623.543	0.79	30.1	0.029	8.7
8047	BF24332800	2	4b	Composite	NO	NO	YES	NO	563260.35	7915764	623.392	1.3	14.45	0.016	9.2
8048	BF24332800	2	4b	Composite	NO	NO	YES	NO	563254.5	7915772	623.352	1.5	10.7	0.009	9.4
8049	BF24330053	2	4b	Composite	NO	NO	YES	NO	563248.25	7915780	623.109	1.25	10.05	0.04	8.3
8050	BF24330053	2	4b	Composite	NO	NO	YES	NO	563242.07	7915788	622.777	1.69	9.14	0.018	8.8
8051	BF24330053	2	4b	Composite	NO	NO	YES	NO	563235.79	7915795	622.399	2.21	3.49	0.053	8.6
8052	BF24330053	2	4b	Composite	NO	NO	YES	NO	563229.4	7915804	622.309	2.04	5.99	0.011	8.6
8053	BF24330053	2	4b	Composite	NO	NO	YES	NO	563223.71	7915811	621.913	1.45	9.38	0.013	8.3
8054	BF24330053	2	4b	Composite	NO	NO	YES	NO	563217.39	7915819	621.366	3.09	7.49	0.008	8.5
8055	BF24330053	2	4b	Composite	NO	NO	YES	NO	563211.14	7915827	621.028	1.87	7.43	0.016	8.1
8056	BF24330053	2	4b	Composite	NO	NO	YES	NO	563205.1	7915835	620.85	2.05	10.1	0.011	8.4
8057	BF24330053	2	4b	Composite	NO	NO	YES	YES	563199.02	7915843	620.866	1.56	10.85	0.021	8
8057	BF24330053	2	4b	Duplicate	NO	NO	YES	YES	563199.02	7915843	620.866	1.49	12.35	0.012	8.2
8058	BF24330053	2	4b	Composite	NO	NO	YES	NO	563192.74	7915851	621.396	2.1	7.89	0.029	8.3
8059	BF24330053	2	4b	Composite	NO	NO	YES	NO	563186.17	7915858	621.208	2.56	5.19	0.04	8.6
8060	BF24330053	2	4b	Composite	NO	NO	YES	NO	563178.12	7915866	621.019	1.83	5.18	0.038	8.3
8061		2	4b	0-2	Yes	Yes	Yes	Yes	563170.59	7915873	620.889	6.11	5.71	0.081	8.1
8061		2	4b	2-4	Yes	Yes	Yes	Yes	563170.59	7915873	620.889	5.39	6.1	0.092	8.7
8061		2	4b	Duplicate	Yes	Yes	Yes	Yes	563170.59	7915873	620.889	7.63	5.1	0.047	8.7
8061		2	4b	Composite	Yes	Yes	Yes	Yes	563170.59	7915873	620.889	11.17	4.53	0.077	8.5
8062		2	4b	Duplicate	YES	YES	YES	YES	563165.22	7915882	620.369	7.63	5.1	0.047	8.7
8062		2	4b	0-2	YES	YES	YES	YES	563165.22	7915882	620.369	5.39	6.1	0.092	8.7
8062		2	4b	2-4	YES	YES	YES	YES	563165.22	7915882	620.369	6.11	5.71	0.081	8.1
8062	BF24330053	2	4b	Composite	YES	YES	YES	YES	563165.22	7915882	620.369	1.88	10.5	0.06	8
8063	BF24330053	2	4b	Composite	NO	NO	YES	NO	563158.89	7915890	620.225	2.02	14.4	0.038	8
8067		2	4b	Composite	no	no	yes	no	563286.77	7915746	624.533	4.39	15.6	0.004	8.8
8068	BF24333618	2	4b	Composite	NO	NO	YES	YES	563280.6	7915754	624.233	1.47	8.7	0.032	8.9
8069	BF24333618	2	4b	Composite	NO	NO	YES	NO	563274.48	7915762	623.971	1.05	39	0.026	8.7
8070	BF24333618	2	4b	Composite	NO	NO	YES	NO	563268.47	7915770	623.504	2.09	12.9	0.021	9
8071		2	4b	Composite	NO	NO	YES	NO	563262.84	7915778	623.037	9.15	7.76	0.013	8.8
8072	BF24332800	2	4b	Composite	NO	NO	YES	NO	563256.02	7915786	622.979	1.85	12.75	0.021	8.8
8073	BF24332800	2	4b	Composite	NO	NO	YES	NO	563249.83	7915794	622.731	2.91	6.13	0.02	8.9
8074	BF24332800	2	4b	Composite	NO	NO	YES	YES	563243.73	7915802	622.432	0.85	43.7	0.01	8.5
8075	BF24332800	2	4b	Composite	NO	NO	YES	NO	563237.55	7915809	622.044	3.2	7.25	0.009	8.6
8076	BF24332800	2	4b	Composite	NO	NO	YES	NO	563231.35	7915817	621.453	1.33	10.15	0.012	8.6
8077	BF24332800	2	4b	Composite	NO	NO	YES	NO	563225.12	7915825	621.101	0.78	33.3	0.015	8.5
8078	BF24332800	2	4b	Composite	NO	NO	YES	NO	563216.76	7915833	620.857	1.04	18.75	0.062	8.6
8089	BF24333618	2	4b	Composite	NO	NO	YES	YES	563294.69	7915752	624.934	2.01	8.22	0.025	8.8
8089			4b	Duplicate	no	no	yes	yes	563294.69	7915752	624.934	8.08	5.72	0.011	8.8
8090	BF24333618	2	4b	Composite	NO	NO	YES	NO	563288.55	7915760	624.634	1.41	12.4	0.017	8.9
8091	BF24333618	2	4b	Composite	NO	NO	YES	NO	563282.26	7915768	624.231	1.39	7.95	0.013	8.9
8092	BF24333618	2	4b	Composite	NO	NO	YES	NO	563276.27	7915776	623.619	1.13	29.4	0.033	9
8093	BF24333618	2	4b	Composite	NO	NO	YES	NO	563275.55	7915779	623.82	1.88	6.47	0.017	9.6
8104	BF24333618	2	4b	Composite	NO	NO	YES	NO	563302.55	7915759	625.086	1.51	9.04	0.015	9
8105	BF24333618	2	4b	Composite	NO	NO	YES	NO	563296.45	7915767	624.824	1.34	8.84	0.015	8.5
8106	BF24333618	2	4b	Composite	NO	NO	YES	NO	563290.15	7915774	624.431	1.22	26.1	0.013	9.3
8107	BF24333618	2	4b	Composite	NO	NO	YES	NO	563284.74	7915779	624.139	1.69	12.9	0.031	8.9
8113	BF24333618	2	4b	Composite	NO	NO	YES	NO	563310.48	7915765	625.268	1.95	6.7	0.021	9.2
8114	BF24333618	2	4b	Composite	NO	NO	YES	NO	563304.11	7915773	624.881	1	21.3	0.02	9.4
8115	BF24333618	2	4b	Composite	NO	NO	YES	NO	563298.5	7915776	624.693	1.46	14.6	0.012	9.2
8120	BF24332800	2	4b	Composite	NO	NO	YES	NO	563324.56	7915763	626.093	2.51	5.64	0.012	8.9
8121	BF24332800	2	4b	Composite	NO	NO	YES	NO	563318.31	7915771	625.935	2.19	14.1	0.026	7.1
8122	BF24332800	2	4b	Composite	NO	NO	YES	NO	563312.16	7915779	626.265	2.14	13	0.099	8.5
8123	BF24332800	2	4b	Composite	NO	NO	YES	YES	563306.86	7915787	626.468	2.42	5.1	0.03	8.9
8123	BF24332801		4b	Duplicate	NO	NO	YES	YES	563306.86	7915787	626.468	2.2	5.17	0.055	8.9
8124	BF24332800	2	4b	Composite	NO	NO	YES	NO	563299.86	7915795	627.122	2.29	6.15	0.054	8.7
8125	BF24332800	2	4b	Composite	NO	NO	YES	NO	563293.67	7915803	627.459	1.3	4.41	0.029	9.2
8126	BF24332800	2	4b	Composite	NO	NO	YES	NO	563287.42	7915810	627.66	1.26	5.26	0.022	8.6
8128	BF24332800	2	4b	Composite	NO	NO	YES	YES	563332.32	7915769	626.379	2.17	5.65	0.023	8.6
8129		2	4b	Composite	no	no	yes	no	563326.17	7915777	626.358	8.79	5.18	0.024	8.4
8130	BF24332800	2	4b	Composite	NO	NO	YES	NO	563320.07	7915785	626.225	1.63	7.91	0.016	8.8
8131	BF24332800	2	4b	Composite	NO	NO	YES	NO	563313.93	7915793	626.654	2.01	3.83	0.073	8.9
8132	BF24332800	2	4b	Composite	NO	NO	YES	NO	563307.76	7915801	626.881	2.13	13.75	0.016	8.9
8133	BF24332800	2	4b	Composite	NO	NO	YES	NO	563301.54	7915809	627.236	2.09	6.28	0.064	8.5
8134	BF24332800	2	4b	Composite	NO	NO	YES	NO	563295.37	7915817	627.419	1.7	3.41	0.015	9.1
8135	BF24332800	2	4b	Composite	NO	NO	YES	NO	563346.39	7915768	626.676	2.12	5.36	0.032	8.3
8136	BF24343447	2	4b	Composite	NO	NO	YES	YES	563340.19	7915776	626.618	8.21	6.6	0.035	8.8
8136			4b	Duplicate	no	no	yes	YES	563340.19	7915776	626.618	8.21	6.6	0.035	8.8
8137	BF24332800	2	4b	Composite	NO	NO	YES	NO	563332.79	7915783	626.766	1.57	12.3	0.014	9.3
8138	BF24332800	2	4b	Composite	NO	NO	YES	NO	563326.4	7915791	626.677	1.51	19.25	0.008	9
8139	BF24332800	2	4b	Composite	NO	NO	YES	NO	563320.72	7915799	626.592	2.55	8.27	0.028	8.5
8140	BF24332800	2	4b	Composite	NO	NO	YES	NO	563315.57	7915807	627.044	2.31	8.33	0.061	8.3
8141	BF24332800	2	4b	Composite	NO	NO	YES	NO	563309.42	7915815	627.203	1.81	3.21	0.068	8.9
8142	BF24332800	2	4b	Composite	NO	NO	YES	NO	563303.23	7915823	627.371	1.16	4.92	0.028	9
8143	BF24327658	2	4b	Composite	YES	YES	YES	NO	563360.44	7915766	626.82	2.08	6.73	0.021	8
8144	BF24327658	2	4b	Composite	YES	YES	YES	NO	563354.56	7915774	626.771	1.41	6.62	0.024	8.1
8145	BF24327658	2	4b	Composite	YES	YES	YES	NO	563347.99	7915782	626.727	1.75	8.38	0.087	8.1
8146	BF24327658	2	4b	Composite	YES	YES	YES	NO	563341.88	7915790	626.55	0.89	16.8	0.019	8.8
8147	BF24327658	2	4b	Composite	YES	YES	YES	NO	563335.81	7915798	626.374	1.77	8.29	0.118	7.9
8148	BF24327658	2	4b	Composite	YES	YES	YES	NO	563330.8	7915805	626.335	0.94	10.5	0.028	8.5
814															

Hole ID	Workorder ID	Cell	Zone	Sample Type	0-2m	2-4m	Composite	Duplicate	Easting	Northing	Elevation	Dry Weight	Mositure	Sulphur (XRF)	Paste pH
Units	--	--	--	--	m	m	--	--	m	m	m	kg	%	%	pH units
8155	BF24327658	2	4b	Composite	YES	YES	YES	NO	563349.85	7915796	626.667	1.07	7.76	0.194	8.3
8156	BF24327658	2	4b	Composite	YES	YES	YES	NO	563343.65	7915804	626.428	1.4	9.09	0.063	8.3
8157	BF24327658	2	4b	Composite	YES	YES	YES	NO	563337.34	7915811	626.281	1.94	8.49	0.155	8.3
8158	BF24327658	2	4b	Composite	YES	YES	YES	NO	563331.36	7915819	626.471	1.9	8.65	0.268	8
8159	BF24327658	2	4b	Composite	YES	YES	YES	NO	563325.12	7915827	626.515	1.05	4.55	0.066	9.3
8160	BF24327658	2	4b	Composite	YES	YES	YES	NO	563376.14	7915778	626.596	2.32	5.31	0.018	8.3
8161	BF24327658	2	4b	Composite	YES	YES	YES	NO	563369.97	7915786	626.67	1.12	4.27	0.021	8.3
8162	BF24327658	2	4b	Composite	YES	YES	YES	NO	563363.79	7915794	626.806	1.79	5.79	0.043	8.4
8163	BF24327658	2	4b	Composite	YES	YES	YES	YES	563358.15	7915802	626.541	1.68	6.15	0.067	8.2
8164	BF24327658	2	4b	Composite	YES	YES	YES	NO	563351.67	7915810	626.277	1.21	11.7	0.022	8.6
8165	BF24327658	2	4b	Composite	YES	YES	YES	NO	563345.37	7915818	626.342	1.45	8.81	0.182	8.2
8166	BF24327658	2	4b	Composite	YES	YES	YES	NO	563338.78	7915826	626.417	1.34	2.9	0.036	9.1
8167	BF24327658	2	4b	Composite	YES	YES	YES	NO	563333.21	7915834	626.466	0.64	7.25	0.017	9.1
8168		2	4b	Composite	YES	YES	YES	YES	563377.73	7915792	626.443	2.86	6.23	0.078	8.7
8168		2	4b	Duplicate	YES	YES	YES	YES	563377.73	7915792	626.443	3.62	7.18	0.071	8.7
8168		2	4b	0-2	YES	YES	YES	YES	563377.73	7915792	626.443	3.75	6.95	0.063	8.7
8168		2	4b	2-4	YES	YES	YES	YES	563377.73	7915792	626.443	1.2	6.25	0.089	8.8
8169	BF24327658	2	4b	Composite	No	No	YES	YES	563371.75	7915800	626.489	2.48	6.77	0.018	8.7
8169	BF24327658	2	4b	Duplicate	No	No	YES	YES	563371.75	7915800	626.489	1.62	5.81	0.018	8.5
8170	BF24327658	2	4b	Composite	YES	YES	YES	NO	563365.48	7915808	626.455	1.42	5.33	0.272	8.3
8171	BF24327658	2	4b	Composite	YES	YES	YES	NO	563359.53	7915816	626.186	2.87	4.97	0.041	8.6
8172	BF24327658	2	4b	Composite	YES	YES	YES	YES	563353.18	7915824	626.089	1.75	7.89	0.036	9
8173	BF24327658	2	4b	Composite	YES	YES	YES	NO	563347.62	7915832	626.221	2.38	19.05	0.05	8.4
8174	BF24327658	2	4b	Composite	YES	YES	YES	YES	563340.27	7915840	626.269	0.65	13.35	0.051	8.5
8174	BF24327658	2	4b	Duplicate	YES	YES	YES	YES	563340.27	7915840	626.269	2.1	10.65	0.066	9
8175	BF24332800	2	4b	Composite	NO	NO	YES	NO	563385.75	7915798	626.36	1.22	10.95	0.067	8.8
8176	BF24332800	2	4b	Composite	NO	NO	YES	NO	563379.51	7915807	626.395	2.55	10.55	0.032	8.7
8177		2	4b	Composite	YES	YES	YES	YES	563373.45	7915814	626.161	6.2	5.63	0.074	8.5
8177		2	4b	Duplicate	YES	YES	YES	YES	563373.45	7915814	626.161	3.85	5.41	0.059	8.7
8177		2	4b	0-2	YES	YES	YES	YES	563373.45	7915814	626.161	4.33	4.2	0.067	8.7
8177		2	4b	2-4	YES	YES	YES	YES	563373.45	7915814	626.161	4.76	6.67	0.076	8.7
8178		2	4b	Composite	Yes	Yes	yes	yes	563367.29	7915822	626.466	7.93	3.29	0.072	7.9
8178		2	4b	Duplicate	Yes	Yes	yes	yes	563367.29	7915822	626.466	7.54	3.33	0.072	7.9
8178		2	4b	0-2	Yes	Yes	yes	yes	563367.29	7915822	626.466	4.41	5.36	0.037	8.6
8178		2	4b	2-4	Yes	Yes	yes	yes	563367.29	7915822	626.466	9.83	2.58	0.062	7.9
8179	BF24332800	2	4b	Composite	NO	NO	YES	NO	563361.18	7915830	626.507	1.52	17.85	0.027	8.4
8180		2	4b	Composite	YES	YES	YES	YES	563355.24	7915838	626.19	5.41	4.92	0.054	8.7
8180		2	4b	Duplicate	YES	YES	YES	YES	563355.24	7915838	626.19	4.89	4.68	0.051	8.7
8180		2	4b	0-2	YES	YES	YES	YES	563355.24	7915838	626.19	1.49	4.49	0.064	8.9
8180		2	4b	2-4	YES	YES	YES	YES	563355.24	7915838	626.19	2.7	6.57	0.039	8.5
8181		2	4b	Composite	YES	YES	YES	YES	563345.74	7915844	626.275	8.3	3.82	0.032	8.7
8181		2	4b	Duplicate	YES	YES	YES	YES	563345.74	7915844	626.275	6.91	5.47	0.03	8.5
8181		2	4b	0-2	YES	YES	YES	YES	563345.74	7915844	626.275	3.36	7.95	0.029	8.7
8181		2	4b	2-4	YES	YES	YES	YES	563345.74	7915844	626.275	4.09	3.31	0.03	8.6
8182	BF24332800	2	4b	Composite	NO	NO	YES	NO	563386.88	7915812	626.466	1.75	13.8	0.152	8.7
8183	BF24332800	2	4b	Composite	NO	NO	YES	NO	563381.46	7915820	626.488	1.38	9.8	0.067	9
8184	BF24332800	2	4b	Composite	NO	NO	YES	NO	563375.25	7915828	626.382	2.09	5.86	0.053	8
8185	BF24332800	2	4b	Composite	NO	NO	YES	YES	563369.02	7915836	626.091	2	8.26	0.011	8.8
8185	BF24332800		4b	Duplicate	NO	NO	YES	YES	563369.02	7915836	626.091	1.69	8.65	0.277	8.9
8186	BF24330053	2	4b	Composite	NO	NO	YES	NO	563362.43	7915844	626.041	1.46	5.19	0.119	7.1
8187		2	4b	Composite	No	No	YES	No	563356.68	7915852	627.223	2.93	4.56	0.024	9.3
8188		2	4b	Composite	YES	YES	YES	YES	563395.07	7915819	626.423	8.46	5.9	0.411	8.4
8188		2	4b	Duplicate	YES	YES	YES	YES	563395.07	7915819	626.423	8.47	6.1	0.505	8.3
8188		2	4b	0-2	YES	YES	YES	YES	563395.07	7915819	626.423	6.75	4.93	0.09	8.3
8188		2	4b	2-4	YES	YES	YES	YES	563395.07	7915819	626.423	4.51	9.62	1.3	8.2
8189	BF24332800	2	4b	Composite	NO	NO	YES	NO	563388.94	7915826	626.363	2.19	5.6	0.14	8.7
8190		2	4b	Composite	YES	YES	YES	YES	563383.04	7915834	626.311	2.47	3.52	0.015	8.8
8190		2	4b	Duplicate	YES	YES	YES	YES	563383.04	7915834	626.311	2.48	5.34	0.032	8.7
8190		2	4b	0-2	YES	YES	YES	YES	563383.04	7915834	626.311	2.32	3.73	0.024	8.7
8190		2	4b	2-4	YES	YES	YES	YES	563383.04	7915834	626.311	1.59	5.36	0.032	8.7
8191	BF24332800	2	4b	Composite	NO	NO	YES	NO	563376.98	7915842	626.14	3.02	5.63	0.023	8.3
8192		2	4b	Composite	YES	YES	YES	YES	563371.16	7915848	625.964	0.74	7.5	0.033	8.9
8192		2	4b	Duplicate	YES	YES	YES	YES	563371.16	7915848	625.964	1.38	3.5	0.029	8.7
8192		2	4b	0-2	YES	YES	YES	YES	563371.16	7915848	625.964	1.53	3.16	0.021	8.8
8192		2	4b	2-4	YES	YES	YES	YES	563371.16	7915848	625.964	0.23	8	0.054	8.3
8193		2	4b	Composite	YES	YES	YES	YES	563368.25	7915852	625.868	4.38	5.6	0.024	8.8
8193		2	4b	Duplicate	YES	YES	YES	YES	563368.25	7915852	625.868	5.54	4.65	0.024	8.8
8193		2	4b	0-2	YES	YES	YES	YES	563368.25	7915852	625.868	2.84	5.02	0.022	8.8
8193		2	4b	2-4	YES	YES	YES	YES	563368.25	7915852	625.868	2.06	6.36	0.016	8.8
8195		2	4b	Composite	YEs	YES	Yes	yes	563397.03	7915833	625.94	7.57	5.02	0.188	8.4
8195		2	4b	Duplicate	YEs	YES	Yes	yes	563397.03	7915833	625.94	8.7	4.81	0.174	8.5
8195		2	4b	0-2	YEs	YES	Yes	yes	563397.03	7915833	625.94	3.2	3.61	0.168	8.5
8195		2	4b	2-4	YEs	YES	Yes	yes	563397.03	7915833	625.94	7.75	7.19	0.174	8.3
8196		2	4b	Composite	YES	YES	YES	YES	563391.03	7915841	625.988	3.16	4.53	0.027	8.4
8196		2	4b	Duplicate	YES	YES	YES	YES	563391.03	7915841	625.988	2.04	5.12	0.037	8.5
8196		2	4b	0-2	YES	YES	YES	YES	563391.03	7915841	625.988	1.9	4.52	0.016	8.6
8196		2	4b	2-4	YES	YES	YES	YES	563391.03	7915841	625.988	1.72	4.44	0.075	8.4
8197	BF24332800	2	4b	Composite	NO	NO	YES	NO	563384.78	7915848	625.977	1.66	10.25	0.024	8.8
8198		2	4b	Composite	YES	YES	YES	YES	563378.63	7915856	625.808	5.11	6.41	0.032	8.6
8198		2	4b	Duplicate	YES	YES	YES	YES	563378.63	7915856	625.808	5.78	5.86	0.03	8.6
8198		2	4b	0-2	YES	YES	YES	YES	563378.63	7915856	625.808	2.76	4.83	0.031	8.6
8198		2	4b	2-4	YES	YES	YES	YES	563378.63	7915856	625.808	1.84	6.12	0.029	8.5
8199	BF24332800	2	4b	Composite	NO	NO	YES	NO	563400.7	7915838	625.739	2	9.09	0.11	9
8200	BF24332800	2	4b	Composite	NO	NO	YES	NO	563397.35	7915847	625.663	1.8	6.74	0.119	8.9
8201	BF24332800	2	4b	Composite	NO	NO	YES	NO	563392.64	7915854	625.708	1.53	10	0.025	8.8
8202	BF24332800	2	4b	Composite	NO	NO	YES	NO	563386.21	7915862	625.657	1.04	16.15	0.026	8.4
8203	BF24332800	2	4b	Composite	NO	NO	YES	NO	563397.22	7915861	625.703	1.28	7.91	0.029	8.8
8204		2	4b												

Hole ID	Workorder ID	Cell	Zone	Sample Type	0-2m	2-4m	Composite	Duplicate	Easting	Northing	Elevation	Dry Weight	Mositure	Sulphur (XRF)	Paste pH
Units	--	--	--	--	m	m	--	--	m	m	m	kg	%	%	pH units
8204		2	4b	2-4	YES	YES	YES	YES	563394.08	7915869	625.792	1.1	7.56	0.035	8.8
3000		3	1c	Composite	NO	NO	YES	NO	562956.37	7915666	616.057	6.11	11.05	0.028	8.7
3001		3	1c	Composite	no	no	YES	no	562950.21	7915674	615.789	5.04	13.25	0.045	8.8
3003		3	1c	Composite	NO	no	yes	NO	562937.89	7915689	615.398	1.64	35.2	0.03	9.1
3004		3	4a	Composite	NO	NO	yes	NO	562976.57	7915656	617.731	6.82	8.58	0.028	8.8
3005		3	4a	Composite	NO	NO	yes	NO	562970.41	7915664	618.195	6.47	3.72	0.027	8.8
3006		3	4a	Composite	NO	NO	yes	NO	562964.25	7915672	617.879	6.1	4.84	0.022	8.8
3007		3	4a	Composite	no	no	yes	no	562958.09	7915680	617.263	7.97	3.51	0.032	8.4
3008		3	4a	Composite	NO	no	yes	no	562951.93	7915688	616.642	1.55	36.2	0.071	8.9
3009		3	4a	Composite	no	no	yes	no	562945.77	7915695	617.195	7.14	5.18	0.031	8.8
3010		3	4a	Composite	no	no	yes	no	562939.6	7915703	617.022	3.1	8.28	0.041	9.2
3011		3	4a	Composite	yes	YES	yes	NO	562996.77	7915647	618.16	5.28	11.55	0.034	8.9
3012		3	4a	Composite	yes	YES	yes	NO	562990.61	7915654	619.404	6.36	12.75	0.034	8.7
3013		3	4a	Composite	yes	YES	yes	NO	562984.45	7915662	618.394	6.3	6.94	0.006	9.1
3014		3	4a	Composite	yes	YES	yes	NO	562978.29	7915670	618.278	7.96	11.65	0.043	9
3015		3	4a	Composite	no	no	yes	no	562972.12	7915678	618.479	5.52	5.15	0.032	8.7
3016		3	4a	2-4	Yes	Yes	Yes	Yes	562965.96	7915686	617.594	3.94	7.51	0.033	8.4
3016		3	4a	Duplicate	Yes	Yes	Yes	Yes	562965.96	7915686	617.594	4.6	9.09	0.016	8.7
3016		3	4a	Composite	Yes	Yes	Yes	Yes	562965.96	7915686	617.594	3.91	16.45	0.026	8.6
3016		3	4a	0-2	Yes	Yes	Yes	Yes	562965.96	7915686	617.594	0.42	19.25	0.03	8.9
3017		3	4a	Composite	no	no	yes	no	562959.8	7915694	617.381	7.29	6.06	0.012	8.6
3018		3	4a	Composite	no	no	yes	no	562953.67	7915701	617.161	4.9	14.95	0.014	8.6
3019		3	4a	Composite	no	no	yes	no	562947.44	7915709	617.179	4.95	4.62	0.02	8.9
3020		3	4a	Composite	YES	YES	YES	NO	562941.29	7915717	616.742	3.56	5.82	0.016	8.9
3021		3	4a	Composite	YES	YES	YES	NO	563017.43	7915640	618.485	9.05	7.37	0.048	8.5
3022		3	4a	Composite	YES	YES	YES	NO	563010.76	7915645	618.384	3.95	6.62	0.08	8.3
3023		3	4a	Composite	YES	YES	YES	NO	563004.6	7915653	618.47	6.47	16.4	0.022	8.8
3024		3	4a	Composite	YES	YES	YES	NO	562998.57	7915660	618.243	7.12	4.94	0.032	8.7
3025		3	4a	Composite	YES	YES	YES	NO	562992.15	7915668	618.08	7.34	6.5	0.024	8.8
3026		3	4a	Composite	YES	YES	YES	NO	562986.07	7915676	618.278	7.45	12.95	0.03	8.5
3027		3	4a	Composite	YES	YES	YES	NO	562980.28	7915684	618.5	6.19	10.7	0.025	8.7
3028		3	4a	Composite	YES	YES	YES	NO	562974.91	7915691	618.329	7.73	5.15	0.024	8.7
3029		3	4a	Composite	NO	NO	YES	NO	562967.72	7915700	617.881	7.2	7.22	0.018	9
3030		3	4a	Composite	NO	NO	YES	NO	562961.6	7915708	617.972	7.62	4.15	0.042	8.9
3031		3	4a	Composite	no	no	YES	NO	562955.36	7915716	617.48	6.37	4.5	0.018	8.6
3032		3	4a	Composite	YES	YES	YES	NO	562949.3	7915723	617.339	4.34	3.77	0.011	8.9
3033		3	4a	Composite	YES	YES	YES	NO	562943.05	7915731	616.939	2.25	16.65	0.032	8.7
3034		3	4a	Composite	YES	YES	YES	NO	562937	7915739	616.129	5.47	5.85	0.02	8.9
3035		3	4a	Composite	YES	YES	YES	NO	563024.83	7915643	618.432	5.65	7.53	0.051	8.5
3036		3	4a	Composite	YES	YES	YES	NO	563018.61	7915651	618.618	8.8	6.48	0.102	8.6
3037		3	4a	Composite	YES	YES	YES	NO	563012.62	7915659	618.496	8.01	5.65	0.032	8.5
3038		3	4a	Composite	YES	YES	YES	NO	563006.4	7915667	618.425	4.64	6.64	0.046	8.6
3039		3	4a	Composite	YES	YES	YES	NO	563000.19	7915675	618.324	7.7	9.41	0.091	8.3
3040		3	4a	Composite	YES	YES	YES	NO	562994.02	7915682	618.219	7.87	7.95	0.128	8.6
3041		3	4a	Composite	YES	YES	YES	NO	562987.92	7915690	618.121	7.19	6.38	0.117	8.6
3042		3	4a	Composite	no	no	yes	no	562981.74	7915698	618.433	5.9	11.95	0.025	8.7
3043		3	4a	Composite	YES	YES	YES	NO	562975.53	7915706	617.965	2.28	7.32	0.022	9
3044		3	4a	Composite	YES	YES	YES	NO	562969.23	7915714	617.967	6.33	12.95	0.025	8.7
3045		3	4a	Composite	YES	YES	YES	NO	562963.15	7915722	617.681	9.23	10.65	0.043	8.6
3046		3	4a	Composite	no	no	yes	NO	562957.1	7915730	617.695	4.21	6.03	0.059	8.6
3047		3	4a	Composite	YES	YES	YES	NO	562950.88	7915738	617.153	1.62	31.6	0.031	8.5
3048		3	4a	Composite	YES	YES	YES	NO	562944.69	7915745	616.648	2.95	4.22	0.118	9
3049		3	4a	Composite	YES	YES	YES	NO	562938.46	7915753	616.386	5.71	4.52	0.041	8.4
3051		3	4a	Composite	YES	YES	YES	NO	563051.17	7915626	619.257	4.77	8.62	0.207	8.6
3052		3	4a	Composite	YES	YES	YES	NO	563044.88	7915634	619.338	5.05	7.17	0.131	8.6
3054		3	4a	0-2	YES	YES	YES	YES	563032.72	7915649	618.992	4.03	8.2	0.023	8.6
3054		3	4a	2-4	YES	YES	YES	YES	563032.72	7915649	618.992	5.08	7.3	0.019	8.7
3054		3	4a	Duplicate	YES	YES	YES	YES	563032.72	7915649	618.992	6.47	7.57	0.023	8.7
3054		3	4a	Composite	YES	YES	YES	YES	563032.72	7915649	618.992	7.88	7.4	0.022	8.9
3055		3	4a	Composite	YES	YES	YES	NO	563026.59	7915657	618.709	10.69	6.47	0.025	8.7
3056		3	4a	0-2	YES	YES	YES	YES	563020.37	7915665	618.435	4.03	12.2	0.026	9.1
3056		3	4a	2-4	YES	YES	YES	YES	563020.37	7915665	618.435	4.89	5.96	0.021	8.7
3056		3	4a	Duplicate	YES	YES	YES	YES	563020.37	7915665	618.435	5.51	9.52	0.028	8.8
3056		3	4a	Composite	YES	YES	YES	YES	563020.37	7915665	618.435	6.96	14.2	0.035	8.9
3057		3	4a	Composite	YES	YES	YES	NO	563014.07	7915673	618.296	6.49	6.89	0.012	8.6
3058		3	4a	Composite	YES	YES	YES	NO	563008.05	7915681	618.197	7.23	10.85	0.069	8.7
3059		3	4a	0-2	YES	YES	YES	YES	563001.79	7915689	618.175	3.74	5.79	0.019	8.8
3059		3	4a	2-4	YES	YES	YES	YES	563001.79	7915689	618.175	2.13	4.91	0.045	8.6
3059		3	4a	Duplicate	YES	YES	YES	YES	563001.79	7915689	618.175	8.25	5.61	0.025	8.7
3059		3	4a	Composite	YES	YES	YES	YES	563001.79	7915689	618.175	7.08	5.47	0.043	8.7
3060		3	4a	Composite	no	no	yes	no	562995.79	7915697	618.477	7.88	5.17	0.105	8.1
3061		3	4a	Composite	no	no	yes	no	562989.22	7915705	618.538	8	7.08	0.064	8.5
3062		3	4a	Composite	no	no	yes	no	562981.25	7915711	618.183	4.21	16.8	0.067	8.7
3063		3	4a	Composite	no	no	yes	no	562972.08	7915718	618.093	4.92	20.6	0.079	8.5
3064		3	4a	0-2	YES	YES	YES	YES	562971.07	7915728	618.118	4.46	2.62	0.043	9.3
3064		3	4a	Composite	YES	YES	YES	YES	562971.07	7915728	618.118	5.74	2.38	0.064	9
3064		3	4a	Duplicate	YES	YES	YES	YES	562971.07	7915728	618.118	4.94	2.56	0.061	8.9
3064		3	4a	2-4	YES	YES	YES	YES	562971.07	7915728	618.118	5.28	2.22	0.102	8.7
3065		3	4a	Composite	YES	YES	YES	NO	562964.88	7915736	617.936	3.93	6.87	0.061	8.9
3066		3	4a	Composite	YES	YES	YES	NO	562958.72	7915744	617.244	3.14	9.77	0.074	8.5
3067		3	4a	Composite	YES	YES	YES	NO	562952.65	7915752	617.014	2.47	8.18	0.058	8.4
3068		3	4a	Composite	YES	YES	YES	NO	562946.46	7915759	617.111	1.39	15.75	0.159	8.3
3069		3	4a	0-2	YES	YES	YES	YES	562940.44	7915767	617.748	2.17	10.35	0.054	8
3069		3	4a	2-4	YES	YES	YES	YES	562940.44	7915767	617.748	1.13	6.61	0.031	8.5
3069		3	4a	Composite	YES	YES	YES	YES	562940.44	7915767	617.748	1.99	16.75	0.046	8.3
3069		3	4a	Duplicate	YES	YES	YES	YES	562940.44	7915767	617.748	1.94	18.5	0.054	8.2
3070		3	4a	Composite	YES	YES	YES	NO	563065.24	7915624	621.034	5.63	7.1	0.021	8.8
3071		3	4a	Composite	YES	YES	YES	NO	563059.07	7915632	619.774	5.42	8.91	0.065	8.6
3072		3	4a	Composite	YES	YES	YES	NO	563052.89	7915640	619.733	9.27	5.89	0.027	8.5
3073		3	4a	Composite	YES	YES	YES	NO	563046.75	7915648	619.451	8.49	7.52	0.014	8.7

Hole ID	Workorder ID	Cell	Zone	Sample Type	0-2m	2-4m	Composite	Duplicate	Easting	Northing	Elevation	Dry Weight	Mositure	Sulphur (XRF)	Paste pH
Units	--	--	--	--	m	m	--	--	m	m	m	kg	%	%	pH units
3074		3	4a	Composite	YES	YES	YES	NO	563040.57	7915655	619.52	8.24	7.31	0.156	8.5
3075		3	4a	Composite	YES	YES	YES	NO	563034.48	7915663	619.252	8.4	8.5	0.237	8.5
3076		3	4a	Composite	YES	YES	YES	NO	563028.18	7915671	619.026	8.75	10.55	0.093	8.6
3077		3	4a	0-2	YES	YES	YES	YES	563022.12	7915679	618.719	6.02	4.29	0.176	9.3
3077		3	4a	2-4	YES	YES	YES	YES	563022.12	7915679	618.719	6.15	5.24	0.115	9
3077		3	4a	Duplicate	YES	YES	YES	YES	563022.12	7915679	618.719	9.21	6.4	0.133	8.7
3077		3	4a	Composite	YES	YES	YES	YES	563022.12	7915679	618.719	8.22	7.43	0.121	8.9
3078		3	4a	Composite	NO	NO	Yes	NO	562979	7915734	619.027	7.29	6.3	0.104	8.3
3079		3	4a	Composite	no	no	yes	no	562972.85	7915742	618.267	4.39	11.65	0.034	8.3
3080		3	4a	Composite	no	no	YES	NO	562966.6	7915750	617.908	3.84	3.52	0.076	8.4
3081		3	4a	Composite	YES	YES	YES	NO	562960.53	7915758	617.829	4.9	5.22	0.026	8.9
3082		3	4a	Composite	YES	YES	YES	NO	562954.39	7915766	617.448	1.97	24.8	0.041	8.8
3085		3	4a	Composite	YES	YES	YES	NO	563073.1	7915630	620.157	5.1	8.6	0.028	8.6
3086		3	4a	Composite	YES	YES	YES	NO	563066.96	7915638	620.21	4.69	10.5	0.027	8.5
3087		3	4a	Composite	YES	YES	YES	NO	563060.69	7915646	619.822	6.9	15	0.02	8.4
3088		3	4a	Composite	YES	YES	YES	NO	563054.66	7915654	619.781	6.93	12.6	0.086	8.5
3089		3	4a	Composite	YES	YES	YES	NO	563048.5	7915662	619.831	4.78	12.45	0.295	8.4
3090		3	4a	Composite	YES	YES	YES	NO	563042.36	7915669	619.799	8.07	9.33	0.241	8.1
3091		3	4a	Composite	YES	YES	YES	NO	562962.19	7915772	618.166	3.85	22.4	0.031	8.5
3093		3	4a	Composite	YES	YES	YES	NO	563087.13	7915629	621.315	6.41	6.97	0.02	8.6
3094		3	4a	Composite	YES	YES	YES	NO	563081.03	7915636	620.416	4.89	8.6	0.168	8.2
3095		3	4a	Composite	YES	YES	YES	NO	563074.83	7915644	620.136	8.2	9.89	0.025	8.2
3097		3	4a	Composite	YES	YES	YES	NO	563062.49	7915660	620.203	8.34	11.35	0.126	8.5
3098		3	4a	Composite	YES	YES	YES	NO	563056.31	7915668	620.239	8.79	9.19	0.091	8.7
3099		3	4a	Composite	YES	YES	YES	NO	563101.12	7915627	621.849	5.7	5.94	0.015	8.7
3100		3	4a	Composite	YES	YES	YES	YES	563094.81	7915634	621.439	4.93	11.15	0.244	8.6
3100		3	4a	0-2	YES	YES	YES	YES	563094.81	7915634	621.439	1.14	16.8	0.551	8
3100		3	4a	2-4	YES	YES	YES	YES	563094.81	7915634	621.439	4.92	10.05	0.246	8.4
3100		3	4a	Duplicate	YES	YES	YES	YES	563094.81	7915634	621.439	5.33	9.97	0.279	8.6
3101		3	4a	Composite	YES	YES	YES	NO	563088.85	7915642	620.988	7.64	9.16	0.053	8.3
3102		3	4a	0-2	YES	YES	YES	YES	563082.67	7915650	620.409	3.13	22.7	0.032	8.7
3102		3	4a	2-4	YES	YES	YES	YES	563082.67	7915650	620.409	5.85	10.8	0.038	8.4
3102		3	4a	Duplicate	YES	YES	YES	YES	563082.67	7915650	620.409	3.2	11.85	0.047	8.4
3102		3	4a	Composite	YES	YES	YES	YES	563082.67	7915650	620.409	5.62	15	0.029	8.4
3103		3	4a	Composite	YES	YES	yes	no	563076.56	7915658	620.419	7.86	6.43	0.039	8.8
3104		3	4a	Composite	YES	YES	yes	no	563070.35	7915666	620.527	7.56	10.55	0.035	8.7
3105		3	4a	Composite	YES	YES	YES	YES	563115.23	7915625	622.851	5.41	16.5	0.025	8.6
3106		3	4a	Composite	NO	NO	YES	NO	563109	7915633	622.03	5.53	15.55	0.023	8.7
3107		3	4a	Composite	yes	yes	yes	no	563102.88	7915641	621.687	4.06	12.3	0.021	8.9
3108		3	4a	Composite	no	no	YES	no	563096.71	7915649	621.31	4.06	12.3	0.021	8.9
3109		3	4a	Composite	no	no	yes	no	563090.58	7915656	621.281	7.41	5	0.018	8.2
3110		3	4a	Composite	NO	no	yes	no	563084.44	7915664	620.878	8.26	6.56	0.429	8
3111		3	4a	Composite	NO	NO	YES	NO	563129.27	7915623	622.463	5.2	15.3	0.047	8.6
3112		3	4a	Composite	no	no	yes	no	563122.87	7915631	622.898	4.07	3.33	0.019	8.9
3113		3	4a	Composite	yes	yes	yes	no	563116.97	7915639	622.769	3.76	23.4	0.04	8.8
3114		3	4a	Duplicate	Yes	Yes	Yes	Yes	563098.57	7915662	621.856	7.72	5.85	0.039	8.3
3114		3	4a	2-4	YES	YES	YES	YES	563098.57	7915662	621.856	7.1	6.33	0.064	8.4
3114		3	4a	0-2	YES	YES	YES	YES	563098.57	7915662	621.856	4.29	6.33	0.057	8.4
3114		3	4a	Composite	YES	YES	YES	YES	563098.57	7915662	621.856	7.11	6.45	0.063	8.4
3115		3	4a	0-2	YES	YES	YES	YES	563143.24	7915621	619.729	5.16	4.09	0.061	7.9
3115		3	4a	Duplicate	YES	YES	YES	YES	563143.24	7915621	619.729	7.81	4.41	0.067	7.8
3115		3	4a	Composite	YES	YES	YES	YES	563143.24	7915621	619.729	5.96	4.64	0.055	7.8
3115		3	4a	2-4	YES	YES	YES	YES	563143.24	7915621	619.729	5.31	4.84	0.076	7.8
3116		3	4a	Composite	NO	NO	YES	NO	563140.42	7915630	619.833	7.84	5.31	0.328	7.9
3117		3	4a	Composite	NO	NO	YES	NO	563130.57	7915637	622.792	4.76	18.05	0.042	8.2
3118		3	4a	Composite	NO	NO	YES	NO	563124.78	7915645	623.421	3.74	24.9	0.287	8.8
3119		3	4a	Composite	NO	NO	YES	NO	563151.23	7915628	619.851	7.82	4.05	0.019	8.2
3120		3	4a	Composite	NO	NO	YES	NO	563144.98	7915636	619.932	8.09	11.7	0.073	8.3
3121		3	4a	Composite	no	no	Yes	NO	563138.8	7915643	621.614	6.62	7.15	0.036	8.6
3122		3	4a	Composite	NO	NO	YES	NO	563159.11	7915634	620.298	7.23	11.7	0.027	8.1
3123		3	4a	Composite	no	no	YES	NO	563152.89	7915642	620.238	7.64	9.16	0.064	8
3125		3	4a	Composite	no	no	yes	no	563166.83	7915640	620.637	6.65	6.07	0.055	8.4
3126		3	4a	Composite	NO	NO	YES	NO	563160.79	7915648	620.756	10.3	6.79	0.027	8
3127		3	4a	Composite	no	no	yes	no	563174.81	7915646	621.117	11.57	9.18	0.093	7.8
3128		3	4a	Composite	no	no	yes	no	563168.49	7915652	621.079	5.8	12.4	0.043	8.2
3129		3	4a	Composite	NO	NO	YES	NO	563182.73	7915652	621.801	11.16	7.46	0.055	8.1
3130		3	4a	Composite	NO	NO	YES	NO	563190.5	7915658	622.216	9.56	13.95	0.019	8.2
3131		3	4a	Composite	no	no	YES	no	563198.4	7915665	622.78	6.81	15.4	0.027	8.2
111	BF24329109	4	2e	Composite	NO	NO	YES	NO	562958.51	7915920	615.709	4.93	11	0.017	8.3
113	BF24329109	4	2e	Composite	NO	NO	YES	NO	562958.2	7915940	615.117	4.85	6.37	0.013	8
115	BF24326503	4	1b	Composite	NO	NO	YES	NO	562958	7915960	617.125	4.39	9.86	0.024	8.5
117	BF24329109	4	1b	Composite	NO	NO	YES	NO	562956.61	7915980	617.12	4.74	7.42	0.011	8.7
119	BF24329109	4	1b	Composite	NO	NO	YES	NO	562954.86	7916000	616.852	4.78	9.64	0.056	8.6
121	BF24325313	4	2d	Composite	NO	NO	YES	NO	562953.24	7916020	616.774	5.61	9.37	0.016	8.5
123	BF24325313	4	2d	Composite	NO	NO	YES	NO	562952.55	7916040	617.053	5.2	6.98	0.022	8
125	BF24325313	4	2d	Composite	NO	NO	YES	NO	562953.12	7916060	617.095	5.64	7.84	0.007	8.4
127	BF24329109	4	1b	Composite	NO	NO	YES	NO	562954.41	7916080	617.636	5.88	7.4	0.005	8.9
129	BF24329109	4	2d	Composite	NO	NO	YES	NO	562957.04	7916099	617.769	4.68	8.06	0.003	8.9
131	BF24336522	4	2d	Composite	NO	NO	YES	NO	562961.13	7916119	617.909	5.14	9.51	0.011	8.9
133	BF24329109	4	2d	Composite	NO	NO	YES	NO	562965.42	7916139	618.134	5.35	8.7	0.004	8.8
135	BF24325313	4	2d	Composite	NO	NO	YES	NO	562969.68	7916158	618.966	4.7	9.62	0.008	7.6
137	BF24329109	4	3c	Composite	NO	NO	YES	NO	562969.78	7916178	619.551	6.15	4.95	0.352	7.5
138	BF24336522	4	2c	Composite	NO	NO	YES	NO	562967.95	7916188	617.654	4.8	18.65	0.203	8.1
141	BF24325313	4	2c	Composite	NO	NO	YES	NO	562966.68	7916217	618.227	5.96	8.02	0.025	8
143	BF24336522	4	2c	Composite	NO	NO	YES	NO	562970.87	7916237	618.893	4.74	5.01	0.102	8.2
145	BF24326503	4	2c	Composite	NO	NO	YES	NO	562974.11	7916256	620.099	4.5	10	0.073	8.8
147	BF24329109	4	2c	Composite	NO	NO	YES	NO	562976.92	7916276	620.213	5.39	5.27	0.118	8.2
149	BF24329109	4	2c	Composite	NO	NO	YES	NO	562979.26	7916296	620.455	4.43	13.65	0.029	8.7
151	BF24326503	4	2c	Composite	NO	NO	YES	NO	562980.24	7916316	620.79	3.97	13.3</		

Hole ID	Workorder ID	Cell	Zone	Sample Type	0-2m	2-4m	Composite	Duplicate	Easting	Northing	Elevation	Dry Weight	Mositure	Sulphur (XRF)	Paste pH
Units	--	--	--	--	m	m	--	--	m	m	m	kg	%	%	pH units
155	BF24329109	4	2c	Composite	NO	NO	YES	NO	562982.75	7916356	621.509	4.73	14	0.036	8.3
157	BF24326503	4	2c	Composite	NO	NO	YES	NO	562983.63	7916376	622.447	5.54	11.9	0.02	8.8
159	BF24325313	4	2c	Composite	NO	NO	YES	NO	562981.83	7916396	621.09	7.18	7.95	0.027	7.9
161	BF24325313	4	2c	Composite	NO	NO	YES	NO	562978.42	7916415	619.314	4.72	16.45	0.037	7.7
163	BF24326503	4	2c	Composite	NO	NO	YES	NO	562975.26	7916435	616.295	6.38	11.15	0.12	8.1
165	BF24325313	4	3b	Composite	NO	NO	YES	NO	562972.11	7916455	616.355	6.07	8.72	0.422	7.6
167	BF24290247	4	3b	Composite	NO	NO	YES	NO	562972.11	7916475	615.561	6.31	8.95	0.294	8.1
168	BF24336522	4	3b	Composite	NO	NO	YES	NO	562972.99	7916485	616.742	6.4	6.43	0.26	8.1
169	BF24325313	4	2b	Composite	NO	NO	YES	NO	562973.88	7916495	615.893	3.42	21.2	0.142	7.8
171	BF24290247	4	2b	Composite	NO	NO	YES	NO	562975.64	7916514	616.967	4.89	8.26	0.01	8.2
173	BF24326503	4	2b	Composite	NO	NO	YES	NO	562980.38	7916534	619.965	6.77	8.14	0.02	8.4
175	BF24290247	4	2b	Composite	NO	NO	YES	NO	562984.69	7916553	618.932	3.64	15.15	0.052	8.3
177	BF24329109	4	2b	Composite	NO	NO	YES	NO	562985.48	7916573	619.419	5.48	9.27	0.029	8.1
179	BF24290247	4	2b	Composite	NO	NO	YES	NO	562988.02	7916592	618.895	8.1	9.8	0.065	8.2
181	BF24325313	4	2b	Composite	NO	NO	YES	NO	562998.32	7916610	619.132	6.25	9.42	0.047	7.8
183	BF24290247	4	2b	Composite	NO	NO	YES	NO	563008.62	7916627	619.029	7.74	7.97	0.012	8.3
185	BF24325313	4	2b	Composite	NO	NO	YES	NO	563024.56	7916638	618.269	6.57	7.07	0.013	8.2
186	BF24336522	4	2b	Composite	NO	NO	YES	NO	563033.34	7916643	617.584	8.24	6.79	0.01	8.2
188	BF24336522	4	2b	Composite	NO	NO	YES	NO	563050.89	7916652	615.355	7.5	6.13	0.027	8.1
189	BF24325313	4	2b	Composite	NO	NO	YES	NO	563060.24	7916654	615	6.97	8.29	0.019	8.1
190	BF24336522	4	2b	Composite	NO	NO	YES	NO	563070.2	7916653	614.471	2.85	8.36	0.041	8.3
192	BF24336522	4	1a	Composite	NO	NO	YES	NO	563090.13	7916652	613.996	3.1	10.4	0.065	8.1
194	BF24336522	4	1a	Composite	NO	NO	YES	NO	563108.8	7916645	613.247	2.91	7.91	0.055	8.6
196	BF24336522	4	1a	Composite	NO	NO	YES	NO	563127.12	7916637	612.724	1.61	23.7	0.05	8.5
197	BF24326503	4	1a	Composite	NO	NO	YES	NO	563135.96	7916633	611.927	3	9.37	0.026	8.3
198	BF24336522	4	1a	Composite	NO	NO	YES	NO	563143.35	7916626	612.085	3.38	5.85	0.04	8.7
199		4	1a	Composite	NO	NO	YES	NO	563150.73	7916619	612.642	3.67	5.41	0.037	7.5
202	BF24336522	4	1a	Composite	NO	NO	YES	NO	563172.9	7916599	610.204	1.67	18.15	0.033	8.2
203		4	1a	Composite	NO	NO	YES	NO	563180.29	7916592	609.937	1.38	10.4	0.041	7.6
204	BF24336522	4	1a	Composite	NO	NO	YES	NO	563187.68	7916586	609.484	1.97	9.63	0.142	8.2
205	BF24325313	4	1a	Composite	NO	NO	YES	NO	563195.07	7916579	609.749	2.02	7.34	0.212	7.4
207		4	1a	Composite	NO	NO	YES	NO	563208.49	7916564	608.639	1.94	18.15	0.055	7.7
208	BF24336522	4	1a	Composite	NO	NO	YES	NO	563214.32	7916556	610.678	2.24	16.1	0.017	8.2
209	BF24325313	4	1a	Composite	NO	NO	YES	NO	563220.15	7916548	611.96	4.35	17.75	0.071	7.5
211		4	1a	Composite	NO	NO	YES	NO	563231.82	7916532	612.743	4.61	10.3	0.009	7.5
213	BF24326503	4	1a	Composite	NO	NO	YES	NO	563243.49	7916515	613.35	4.26	13.75	0.025	8.1
215	BF24326503	4	1a	Composite	NO	NO	YES	NO	563252.15	7916498	613.684	3.51	17.6	0.028	7.2
217	BF24326503	4	1a	Composite	NO	NO	YES	NO	563258.99	7916479	611.155	4.55	9.9	0.011	8.3
219	BF24329109	4	1a	Composite	NO	NO	YES	NO	563265.82	7916460	610.888	4.29	8.33	0.018	8.3
221	BF24325313	4	1a	Composite	NO	NO	YES	NO	563271.94	7916441	612.183	4.35	7.25	0.015	7.7
223	BF24329109	4	1a	Composite	NO	NO	YES	NO	563277.43	7916422	611.633	4.05	6.9	0.024	8.3
224	BF24336522	4	1a	Composite	NO	NO	YES	NO	563280.17	7916412	610.69	5.02	7.38	0.026	8.3
227	BF24325313	4	1a	Composite	NO	NO	YES	NO	563284.45	7916383	611.897	4.27	8.96	0.022	8.1
229	BF24325313	4	1a	Composite	NO	NO	YES	NO	563287.67	7916363	611.603	4.48	13.7	0.021	7.7
231	BF24325313	4	1a	Composite	NO	NO	YES	NO	563291.46	7916343	611.438	4.03	11.8	0.011	8.2
233	BF24325313	4	1a	Composite	NO	NO	YES	NO	563295.24	7916324	612.168	4.62	7.23	0.007	8.2
234	BF24336522	4	1a	Composite	NO	NO	YES	NO	563297.13	7916314	612.188	4.22	6.43	0.032	8.6
236	BF24336522	4	1a	Composite	NO	NO	YES	NO	563300.91	7916294	611.416	4.35	9.19	0.021	8.6
237	BF24325313	4	1a	Composite	NO	NO	YES	NO	563302.62	7916284	613.48	4.42	7.72	0.008	7.8
239	BF24325313	4	1a	Composite	NO	NO	YES	NO	563305.18	7916264	615.683	5.85	6.25	0.012	8
241	BF24325313	4	1a	Composite	NO	NO	YES	NO	563304.33	7916245	617.81	5.42	7.19	0.028	7.5
242	BF24336522	4	1a	Composite	NO	NO	YES	NO	563303.33	7916235	618.23	4.98	10.1	0.041	8.6
244	BF24336522	4	1a	Composite	NO	NO	YES	NO	563307.49	7916216	622.097	4.73	11.25	0.237	8.8
243	BF24326503	4	1a	Composite	NO	NO	YES	NO	563305.41	7916225	619.566	6.6	9.09	0.027	8.1
311	BF24326503	4	2e	Composite	NO	NO	YES	NO	562963.51	7915920	615.681	4.75	10.55	0.018	7.7
313	BF24326503	4	1b	Composite	NO	NO	YES	NO	562963.24	7915940	615.925	5.49	6.63	0.089	7.4
315	BF24329109	4	1b	Composite	NO	NO	YES	NO	562963.01	7915960	617.482	5.47	6.97	0.009	8.1
317	BF24290247	4	2d	Composite	NO	NO	YES	NO	562961.64	7915980	617.051	5.45	9.17	0.003	8.6
319	BF24329109	4	2d	Composite	NO	NO	YES	NO	562959.88	7916000	616.653	4.44	10.5	0.009	8.7
321	BF24326503	4	2d	Composite	NO	NO	YES	NO	562958.27	7916020	616.765	4.82	10.4	0.023	8.3
323	BF24326503	4	2d	Composite	NO	NO	YES	NO	562957.54	7916040	617.067	4.46	8.79	0.043	8.3
325	BF24325313	4	2d	Composite	NO	NO	YES	NO	562958.12	7916060	617.052	5.49	8.5	0.052	8.2
327	BF24329109	4	2d	Composite	NO	NO	YES	NO	562959.42	7916079	617.653	3.59	14.3	0.022	8.4
329	BF24326503	4	2d	Composite	NO	NO	YES	NO	562962.12	7916099	618.062	4.92	5.2	0.028	8.5
331	BF24336522	4	2d	Composite	NO	NO	YES	NO	562966.21	7916119	617.882	4.91	9.41	0.01	8.8
333	BF24326503	4	2d	Composite	NO	NO	YES	NO	562970.51	7916138	618.234	4.84	8.33	0.054	8.7
335	BF24329109	4	2d	Composite	NO	NO	YES	NO	562974.68	7916158	619.286	4.4	11.3	0.011	8.5
337	BF24326503	4	3c	Composite	NO	NO	YES	NO	562974.89	7916178	619.17	4.47	6.88	0.871	7.8
339	BF24326503	4	2c	Composite	NO	NO	YES	NO	562971.22	7916197	617.735	3.74	16.7	0.322	8.4
341	BF24329109	4	2c	Composite	NO	NO	YES	NO	562971.77	7916217	618.406	4.95	7.82	0.021	8.6
343	BF24325313	4	2c	Composite	NO	NO	YES	NO	562975.96	7916237	618.889	5.38	7.4	0.037	8.1
345	BF24326503	4	2c	Composite	NO	NO	YES	NO	562979.14	7916256	620.113	3.93	11.3	0.102	8.7
347	BF24326503	4	2c	Composite	NO	NO	YES	NO	562981.95	7916276	619.901	5.9	7.38	0.052	9.2
349	BF24325313	4	2c	Composite	NO	NO	YES	NO	562984.28	7916296	620.6	5.24	8.39	0.024	8.6
351	BF24325313	4	2c	Composite	NO	NO	YES	NO	562985.24	7916316	621.301	4.24	14.7	0.02	7.8
354	BF24336522	4	2c	Composite	NO	NO	YES	NO	562987.03	7916346	620.518	5.22	16.6	0.042	8.5
355	BF24329109	4	2c	Composite	NO	NO	YES	NO	562987.76	7916356	620.769	5.24	13.8	0.02	8.2
357	BF24325313	4	2c	Composite	NO	NO	YES	NO	562988.63	7916376	621.219	4.66	11.75	0.035	7.8
359	BF24329109	4	2c	Composite	NO	NO	YES	NO	562986.92	7916396	621.551	6.09	24.2	0.01	8.3
361	BF24329109	4	2c	Composite	NO	NO	YES	NO	562983.5	7916415	620.291	5.6	11.55	0.099	8
363	BF24325313	4	2c	Composite	NO	NO	YES	NO	562980.34	7916435	616.66	5.02	15.35	0.05	7.5
365	BF24326503	4	3b	Composite	NO	NO	YES	NO	562977.18	7916455	616.369	4.43	11.6	0.515	7.5
367	BF24329109	4	3b	Composite	NO	NO	YES	NO	562977.12	7916475	615.864	4.93	8.87	0.226	8
369	BF24325313	4	3b	Composite	NO	NO	YES	NO	562978.89	7916494	616.62	5.47	10.35	0.257	7.2
370	BF24336522	4	3b	Composite	NO	NO	YES	NO	562979.77	7916504	618.151	6.39	6.17	0.	

Hole ID	Workorder ID	Cell	Zone	Sample Type	0-2m	2-4m	Composite	Duplicate	Easting	Northing	Elevation	Dry Weight	Mositure	Sulphur (XRF)	Paste pH
<i>Units</i>	--	--	--	--	<i>m</i>	<i>m</i>	--	--	<i>m</i>	<i>m</i>	<i>m</i>	<i>kg</i>	%	%	<i>pH units</i>
383	BF24325313	4	2b	Composite	NO	NO	YES	NO	563014.27	7916626	618.797	6.19	9.24	0.01	8
385	BF24290247	4	2b	Composite	NO	NO	YES	NO	563031.67	7916636	619.433	6.01	6.97	0.029	8
387	BF24329109	4	2b	Composite	NO	NO	YES	NO	563049.22	7916646	618.195	8.87	9.12	0.018	8
388	BF24336522	4	2b	Composite	NO	NO	YES	NO	563058.19	7916649	616.131	7.64	4.86	0.054	8.2
389		4	3a	Composite					563068.15	7916649	615.76	2.66	6.99	0.27	7.1
390	BF24336522	4	3a	Composite	NO	NO	YES	NO	563078.11	7916648	615.002	2.56	13.5	0.258	8.2
392	BF24336522	4	3a	Composite	NO	NO	YES	NO	563097.66	7916645	614.189	2.19	9.5	0.221	8.1
393		4	3a	Composite					563106.82	7916641	614.04	1.38	9.8	0.233	7.3
395	BF24325313	4	1a	Composite	NO	NO	YES	NO	563125.13	7916633	612.676	2.48	19.5	0.1	7.2
396	BF24336522	4	1a	Composite	NO	NO	YES	NO	563133.82	7916628	613	1.56	22	0.027	8.8
397		4	1a	Composite	NO	NO	YES	NO	563141.21	7916621	615.29	2.08	10.35	0.04	7.8
399	BF24329109	4	1a	Composite	NO	NO	YES	NO	563155.99	7916608	614.826	2.26	5.44	0.021	8.1
401		4	1a	Composite	NO	NO	YES	NO	563170.77	7916594	613.634	1.81	16.95	0.022	7.1
402	BF24336522	4	1a	Composite	NO	NO	YES	NO	563178.16	7916587	613.458	1.5	15.25	0.095	8
403	BF24326503	4	1a	Composite	NO	NO	YES	NO	563185.55	7916581	612.537	2.04	16.05	0.057	8.3
405		4	1a	Composite	NO	NO	YES	NO	563200.18	7916567	611.245	2.77	6.1	0.022	7.5
407	BF24329109	4	1a	Composite	NO	NO	YES	NO	563211.84	7916551	613.406	2.43	31.4	0.017	8
409	BF24325313	4	1a	Composite	NO	NO	YES	NO	563223.51	7916535	614.806	4.28	8.35	0.044	7.6
410	BF24336522	4	1a	Composite	NO	NO	YES	NO	563229.34	7916527	615.16	4.15	23.7	0.01	7.9
417	BF24329109	4	1a	Composite	NO	NO	YES	NO	563259.1	7916464	613.347	4.31	8.69	0.042	8.3
418	BF24336522	4	1a	Composite	NO	NO	YES	NO	563262.52	7916455	614.215	4.51	9.8	0.043	8.6
420	BF24336522	4	1a	Composite	NO	NO	YES	NO	563268.35	7916435	614.628	5	6.89	0.027	8.3
421	BF24325313	4	1a	Composite	NO	NO	YES	NO	563271.1	7916426	614.234	4.93	7.5	0.04	8.2
423	BF24325313	4	1a	Composite	NO	NO	YES	NO	563275.98	7916406	613.374	5.24	5.92	0.006	8.4
425	BF24329109	4	1a	Composite	NO	NO	YES	NO	563278.81	7916387	612.536	4.22	5.38	0.014	8.2
427	BF24325313	4	1a	Composite	NO	NO	YES	NO	563281.8	7916367	614.005	5.69	6.41	0.015	8.1
429	BF24329109	4	1a	Composite	NO	NO	YES	NO	563285.58	7916347	612.769	5.15	6.02	0.023	8.3
431	BF24325313	4	1a	Composite	NO	NO	YES	NO	563289.36	7916328	614.196	4.84	10.55	0.062	7.4
433	BF24325313	4	1a	Composite	NO	NO	YES	NO	563293.14	7916308	614.057	5.01	4.02	0.024	8
435	BF24325313	4	1a	Composite	NO	NO	YES	NO	563296.92	7916288	615.554	5.86	9.29	0.012	8.2
439	BF24329109	4	1a	Composite	NO	NO	YES	NO	563299.99	7916249	617.73	4.36	9.17	0.039	8.5
441	BF24329109	4	1a	Composite	NO	NO	YES	NO	563299.43	7916229	620.313	6.27	4.71	0.026	8.4
443	BF24326503	4	1a	Composite	NO	NO	YES	NO	563303.59	7916210	623.205	3.25	8.19	0.039	8.8
5000	BF24348189	5	1a	Composite	YES	YES	YES	NO	563404.41	7915929	625.907	4.26	6.99	0.013	8.6
5001	BF24348189	5	2a	Composite	YES	YES	YES	NO	563400.13	7915938	625.777	4.29	6.33	0.028	8.5
5002	BF24348189	5	2a	Composite	YES	YES	YES	NO	563395.96	7915958	625.841	5.63	5.85	0.018	8.7
5003	BF24348189	5	2a	Composite	YES	YES	YES	NO	563391.62	7915978	624.966	4.17	5.44	0.026	8.3
5004	BF24348189	5	2a	Composite	YES	YES	YES	NO	563382.5	7916003	622.659	2.76	8.91	0.045	8.5
5005	BF24348189	5	2a	0-2	YES	YES	YES	YES	563379.02	7916017	622.013	0.99	12.4	0.025	8.7
5005	BF24348189	5	2a	2-4	YES	YES	YES	YES	563379.02	7916017	622.013	2.29	8.03	0.006	8.5
5005	BF24348189	5	2a	Composite	YES	YES	YES	YES	563379.02	7916017	622.013	4.1	7.66	0.016	8.7
5005	BF24348189	5	2a	Duplicate	YES	YES	YES	YES	563379.02	7916017	622.013	3.77	8.05	0.024	8.7
5006	BF24348189	5	2a	Composite	YES	YES	YES	NO	563370.38	7916035	621.841	2.12	6.61	0.005	8.5
5007	BF24348189	5	2a	Composite	YES	YES		NO	563361.59	7916053	621.134	4.32	7.1	0.011	8.6
5008	BF24348189	5	2a	Composite	YES	YES	YES	NO	563353.11	7916071	621.997	4.46	5.51	0.039	8.4
5009	BF24348189	5	2a	Composite	YES	YES	YES	NO	563344.46	7916089	621.665	3.34	6.44	0.077	8.5
5010	BF24348189	5	2a	0-2	YES	YES	YES	YES	563340.29	7916108	621.587	1.75	6.91	0.047	8.6
5010	BF24348189	5	2a	2-4	YES	YES	YES	YES	563340.29	7916108	621.587	2.69	6.6	0.033	8.5
5010	BF24348189	5	2a	Composite	YES	YES	YES	YES	563340.29	7916108	621.587	3.98	5.46	0.044	8.7
5010	BF24348189	5	2a	Duplicate	YES	YES	YES	YES	563340.29	7916108	621.587	3.31	7.02	0.055	8.8
5011	BF24348189	5	2a	Composite	YES	YES	YES	NO	563335.45	7916127	621.016	5.21	6.8	0.017	8.8
5101	BF24348189	5	1a	Composite	YES	YES	YES	NO	563404.61	7915940	626.091	7.18	5.65	0.024	8.5
5102	BF24348189	5	1a	Composite	YES	YES	YES	NO	563400.42	7915960	625.969	4.78	5.72	0.018	8.7
5103	BF24348189	5	1a	Composite	YES	YES	YES	NO	563396.15	7915981	625.016	4.79	4.96	0.035	8.2
5104	BF24348189	5	1a	Composite	YES	YES	YES	NO	563388.62	7916004	622.621	4.43	5.74	0.013	8.3
5105	BF24348189	5	1a	Composite	YES	YES	YES	NO	563383.71	7916019	622.146	4.92	5.57	0.029	8.1
5106	BF24348189	5	2a	Composite	YES	YES	YES	NO	563374.84	7916037	621.601	3.58	8.67	0.018	8.6
5107	BF24348189	5	2a	Composite	YES	YES	YES	NO	563366.17	7916055	621.062	5.19	7.65	0.02	8.7
5108	BF24348189	5	2a	Composite	YES	YES	YES	NO	563357.69	7916073	622.127	3.6	6.01	0.022	8.4
5109	BF24348189	5	2a	Composite	YES	YES	YES	NO	563348.96	7916091	621.931	4.07	5.79	0.072	8.5
5110	BF24348189	5	1a	Composite	YES	YES	YES	NO	563347.04	7916109	621.536	4.17	9.54	0.012	8.6
5111	BF24348189	5	1a	Composite	YES	YES	YES	NO	563340.76	7916129	621.032	3.3	7.82	0.006	8.9