

Tableau 1 : Bilan Essais Statiques de génération d'acide (ABA)(Acid Base Accounting)

Paramètre	Unité	GR Comp CN73/74	Overall Comp CN95/96	Overall Comp CND2 (-200 Mesh)
pH	unités	10.03	10.00	9.72
NP*	t CaCO3/1000 t	64.0	64.1	72.2
AP	t CaCO3/1000 t	44.6	39.4	37.0
Net NP	t CaCO3/1000 t	19.4	24.7	35.2
NP/AP	ratio	1.44	1.63	1.95
S	%	1.64	1.60	1.32
SO4	%	0.22	0.35	0.13
Sulfure	%	1.43	1.26	1.18
C	%	0.634	0.631	0.728
Carbonate	%	1.17	1.30	1.89
PN CO3 **	t CaCO3/1000 t	19.4	21.6	31.4
PN Net CO3	t CaCO3/1000 t	-25.2	-17.8	-5.6
PN/PA CO3	ratio	0.44	0.55	0.85
Classification	basée sur PN test ABA*	incertain	incertain	incertain
Classification	basée sur PN CO3**	PGA	PGA	PGA

* mesuré dans les tests ABA

** théorique, basé sur le contenu en CO3 uniquement

Surligné vert indique valeur PN net < 20.

Surligné Orange indique un ratio PN/PA < 3.

PGA - Potentiellement Générateur Acide basé sur l'interprétation des résultats ABA seulement.

PNA - Potentiellement Neutralisant Acide basé sur l'interprétation des résultats ABA seulement.

incertain - Le potentiel de génération acide est incertain basé sur l'interprétation des résultats ABA seulement.

Tableau 2 : Analyses hebdomadaires de lixiviat et du taux d'épuisement – Cellule humide Overall Comp CN95/96

Semaine	pH	Acidité	Alcalinité	Conductivité	SO4	Épuisement Cum. S=	ÉpuisementCum. PN	ÉpuisementCum. PN CO3
No.	unités	CaCO3 eq. mg/L	CaCO3 eq. mg/L	µmhos/cm	mg/L	%	%	%
0	7.75	<2	31	210	36	0.07	0.04	0.12
1	7.74	18	32	269	56	0.23	0.14	0.42
2	7.55	<2	39	201	34	0.30	0.19	0.56
3	7.31	<2	31	170	36	0.39	0.24	0.72
4	7.51	<2	29	168	43	0.50	0.31	0.91
5	7.62	<2	29	161	46	0.61	0.38	1.12
6	7.50	<2	20	124	33	0.69	0.43	1.27
7	7.82	<2	18	114	34	0.78	0.48	1.41
8	7.69	<2	25	189	54	0.90	0.56	1.65
9	8.09	<2	43	352	150	1.28	0.79	2.33
10	7.82	<2	41	253	96	1.51	0.93	2.76
11	7.91	<2	34	237	73	1.68	1.03	3.06

**Tableau 3 : Concentration des métaux dissouts – Cellule humide Overall Comp
CN95/96**

Paramètre	Unités	Dir. 019	0	1	2	3	4	5
pH	Unités	6-9.5	7.75	7.74	7.55	7.31	7.51	7.62
CN(T)	mg/L	1.00	2.84	0.94	0.42	< 0.01	0.16	0.11
CNWAD	mg/L		0.15	0.22	< 0.1	< 0.01	< 0.1	< 0.1
CN(F)	mg/L		0.15	0.22	< 0.1	< 0.01	< 0.1	< 0.1
CNO	mg/L		1.0	< 0.1	< 0.1	< 1	< 0.1	< 0.1
CNS	mg/L		2.6	1.4	5.5	< 5	< 2	< 2
					<			
Hg	mg/L		< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
As	mg/L	0.20	0.0044	0.0005	0.0004	< 0.0002	0.0002	< 0.0002
					<			
Cu	mg/L	0.30	0.0393	0.0006	0.0005	< 0.0005	< 0.0005	< 0.0005
Fe	mg/L	3.00	1.01	0.29	0.12	0.08	0.06	0.03
Ni	mg/L	0.50	0.108	0.0024	0.0011	0.0007	0.0011	0.0006
Pb	mg/L	0.20	0.00009	0.00007	0.00002	0.00004	0.00003	< 0.00002
Zn	mg/L	0.50	< 0.001	0.003	0.002	0.002	0.002	< 0.001

Table 3 (Suite) : Concentration des métaux dissouts – Cellule humide Overall Comp CN95/96

Paramètre	Unités	Dir. 019	6	7	8	9	10	11
pH	unités	6-9.5	7.50	7.82	7.69	8.09	7.82	7.91
CN(T)	mg/L	1.00	---	---	---	---	0.02	---
CNWAD	mg/L		---	---	---	---	< 0.01	---
CN(F)	mg/L		---	---	---	---	< 0.02	---
CNO	mg/L		---	---	---	---	< 0.1	---
CNS	mg/L		---	---	---	---	< 2	---
Hg	mg/L		---	---	---	---	< 0.0001	---
As	mg/L	0.20	---	---	---	---	0.0003	---
Cu	mg/L	0.30	---	---	---	---	< 0.0005	---
Fe	mg/L	3.00	---	---	---	---	< 0.01	---
Ni	mg/L	0.50	---	---	---	---	0.0018	---
Pb	mg/L	0.20	---	---	---	---	0.00003	---
Zn	mg/L	0.50	---	---	---	---	0.002	---

Table 4 : Analyses Hebdomadaire de lixiviat et taux d'épuisement – Cellule humide Overall Comp CND2 (-200 mesh)

Semaine	pH	Acidité	Alcalinité	Conductivité	SO4	Épuisement Cum. S=	ÉpuisementCum. PN	ÉpuisementCum. PN CO3
No.	unités	CaCO3 eq. mg/L	CaCO3 eq. mg/L	µmhos/cm	mg/L	%	%	%
0	7.60	<2	28	101	14	0.03	0.01	0.03
1	7.48	<2	21	91	15	0.07	0.04	0.09
2	8.21	<2	28	140	28	0.15	0.08	0.18
3	7.22	<2	11	74	15	0.19	0.10	0.22
4	7.40	<2	18	118	29	0.27	0.14	0.32
5	7.31	<2	14	96	28	0.34	0.17	0.40
6	7.49	<2	9	92	28	0.41	0.21	0.48
7	7.48	<2	8	85	28	0.48	0.25	0.57
8	7.09	<2	10	111	33	0.57	0.29	0.67
9	7.51	<2	11	69	21	0.62	0.32	0.73
10	7.16	<2	9	88	31	0.70	0.36	0.82
11	7.63	<2	10	129	44	0.81	0.41	0.95

Table 5 : Concentration des métaux dissouts – Cellule humide Overall Comp CND2 (-200 mesh)

Paramètre	Unités	Dir. 019	0	1	2	3	4	5
pH	unités	6-9.5	7.60	7.48	8.21	7.22	7.40	7.31
CN(T)	mg/L	1.00	0.99	0.13	< 0.1	0.010	< 0.1	< 0.1
CNWAD	mg/L		0.04	0.05	< 0.1	< 0.01	< 0.1	< 0.1
CN(F)	mg/L		0.04	0.05	< 0.1	< 0.01	< 0.1	< 0.1
CNO	mg/L		1.2	0.4	0.6	< 0.1	0.2	< 0.1
CNS	mg/L		< 2	0.3	< 2	< 5	< 2	< 2
					<			
Hg	mg/L		< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
As	mg/L	0.20	0.0019	0.0003	0.0005	< 0.0002	< 0.0002	< 0.0002
Cu	mg/L	0.30	0.0117	0.0097	0.0069	0.0051	0.0040	0.0041
Fe	mg/L	3.00	0.40	0.05	0.03	0.03	0.01	< 0.001
Ni	mg/L	0.50	0.0003	0.0003	0.0004	0.0001	0.0003	< 0.0001
Pb	mg/L	0.20	0.00013	0.00010	0.00006	0.00004	0.00003	0.00004
Zn	mg/L	0.50	< 0.001	0.002	0.002	< 0.001	< 0.001	< 0.001

Table 5 (suite) : Concentration des métaux dissouts – Cellule humide Overall Comp CND2 (-200 mesh)

Paramètre	Unités	Dir. 019	6	7	8	9	10	11
pH	unités	6-9.5	7.49	7.48	7.09	7.51	7.16	7.63
CN(T)	mg/L	1.00	---	---	---	---	0.03	---
CNWAD	mg/L		---	---	---	---	< 0.01	---
CN(F)	mg/L		---	---	---	---	< 0.02	---
CNO	mg/L		---	---	---	---	< 0.1	---
CNS	mg/L		---	---	---	---	< 2	---
Hg	mg/L		---	---	---	---	< 0.0001	---
As	mg/L	0.20	---	---	---	---	< 0.0002	---
Cu	mg/L	0.30	---	---	---	---	0.0047	---
Fe	mg/L	3.00	---	---	---	---	0.02	---
Ni	mg/L	0.50	---	---	---	---	0.0002	---
Pb	mg/L	0.20	---	---	---	---	0.00006	---
Zn	mg/L	0.50	---	---	---	---	0.002	---

Figure 1. Bilan Essais Statiques de génération d'acide (ABA)

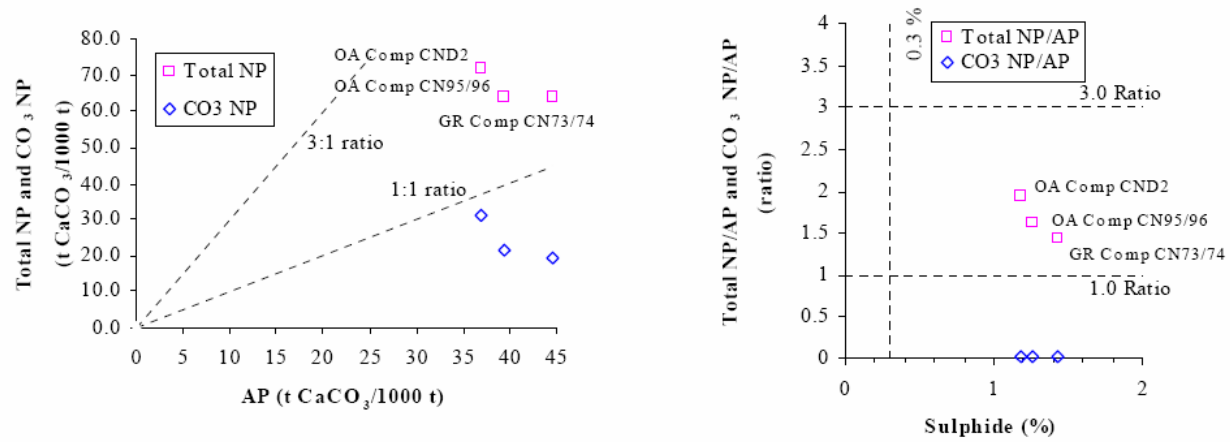


Figure 2. Taux d'épuisement des cellules humides

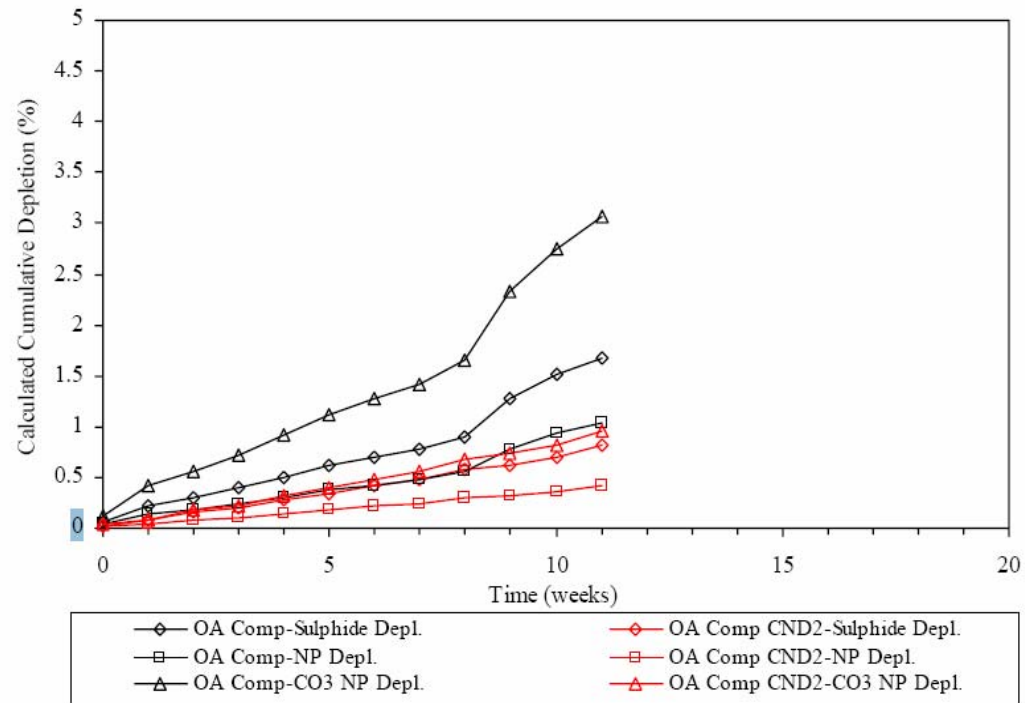


Figure 3. pH, conductivité et concentration de sulfate dans les cellules humides

