

RAPORT ANUAL DE MEDIU 2021

Avem rugamintea de a asigura confidentialitatea informatiilor raportate.

Identificarea dispozitivului	
Numele instalației	LIBERTY GALATI S.A.
Adresa instalației	Calea Smîrdan nr. 1
Cod poștal /Cod țară	800698
Coordonatele amplasamentului (latitudine N, longitudine E)	Longitudine: 27.960160
	Latitudine: 45.445760
Codul CAEN	2410
Activitatea principală	Productia de metale feroase sub forme primare si de feroaliaje
Volumul producției	2,356,727 tone otel
Autoritatea de reglementare	Agentia pentru Protectia Mediului Galati
Numărul instalațiilor	1
Numărul orelor de funcționare pe an	270,000
Numărul angajaților	5010
Numărul autorizației de mediu	Autorizatia Integrata de Mediu nr.1 din 24.08.2015, rev. 05.03.2020
Persoana de contact	Sef Departament Mediu Mirela Dobrota
Telefon nr.	0236/ 80 1080
Fax nr.	0236/ 80 1179
Adresa E-mail	mirela.dobrota@libertysteelgroup.com

CENTRALIZATOR EMISII AER_ 2021

DEPARTAMENT AGLOMERARE SI MATERII PRIME

Sursa / Echipament depoluare existent	Puncte de emisie	Poluanti emisi	VLE (mg/ Nm3)	Valoare min masurata (mg/ Nm3)	Valoare max masurata (mg/ Nm3)	Tip monitorizare	Observatii
Depozitul de materii prime/ EF nr. 1 DMP	Sistem de evacuare (cos)	Pulberi	40	-	-	Determinare lunara	Instalatie oprita
Depozitul de materii prime/ EF nr. 2 DMP	Sistem de evacuare (cos)	Pulberi	40	-	-	Determinare lunara	Instalatie oprita
Maşina de aglomerare nr. 4 - epurare gaze arse (desprăfuire primara)/ EF 1 superior + EF 2 inferior	Sistem de evacuare (cos)	Pulberi	50	-	-	Determinare continua	Instalatie oprita
		NO _x	500	-	-		
Maşina de aglomerare nr. 4 (desprăfuire secundara) / FS desprăfuire	Sistem de evacuare (cos)	SO _x	500	-	-	Determinare continua	Instalatie oprita
		Pulberi	10	-	-		
Concasare calcar/FS desprăfuire statie concasare calcar	Sistem de evacuare (cos)	Pulberi	40	2.81	7.58	Determinare lunara	Determinari efectuate de Liberty Galati
Operaţia de predozare /EF predozare	Sistem de evacuare (cos)	Pulberi	40	23.08	34.15	Determinare lunara	Determinari efectuate de Liberty Galati
Circuitul retur / EF retur aglomerat	Sistem de evacuare (cos)	Pulberi	40	14.76	30.56	Determinare lunara	Determinari efectuate de Liberty Galati
Concasare cocs / EF nr. 1 si nr.2 concasare cocs	Sistem de evacuare (cos)	Pulberi	40	12.93	26.46	Determinare lunara	Determinari efectuate de Liberty Galati
Maşina de aglomerare 5 (desprăfuire secundara)/ EF desprăfuire	Sistem de evacuare (cos)	Pulberi	30	10.66	26.32	Determinare discontinua	Determinari efectuate de Liberty Galati
				4.28	28.90	Determinare continua	Incertitudinea de masurare a echipamentului de monitorizare continua <1%
Maşinile de aglomerare nr. 5 si 6 (desprăfuire primara) / Filtru hibrid M5 + EF epurare gaze arse M6 (cos comun)	Sistem de evacuare (cos comun)	Pulberi	39	25.95	35.85	Determinare discontinua	Determinari efectuate de Liberty Galati
		NO _x	500	48	1.14		
		SO ₂	500	330	471		
		Pulberi	39	10	38		
		NO _x	500	52	150		
		SO ₂	500	144	468		
		PCDD/F	0.4 ng I-TEQ/Nm3		0.152	Determinare anuala	Determinari efectuate de Balint Analitika
		Hg	0.05		0.004	Determinare anuala	Determinari efectuate de Balint Analitika
Maşina de aglomerare nr. 5, filtru hibrid	Sistem de evacuare (cos)	Pulberi	0.2 ng I-TEQ/Nm3	0.099		Determinare continua	Determinare efectuata de Balint Analitika
				12.15		Determinare discontinua	Determinare efectuata de Balint Analitika

Mașina de aglomerare nr. 6, EF epurare gaze arse	Sistem de evacuare (coș)	PCDD/F pulberi	0.4 ng l-TEQ/Nm ³	0.141	Determinare anuala	Determinare efectuata de Balint Analitika
Mașina de aglomerare nr. 6 (desprăfuire secundara)/ EF desprăfuire	Sistem de evacuare (coș)	Pulberi	40	32.82	Determinare discontinua	Determinare efectuata de Balint Analitika
Mașinile de aglomerare nr. 5 si 6 (desprăfuire primara) / Filtru hibrid epurare gaze arse M5 + EF epurare gaze arse M6 (coș comun)	Sistem de evacuare (coș)	Pulberi	30	2.41	Determinare continua	Incertitudinea de masurare a echipamentului de monitorizare continua <1%
				14	Determinare anuala	Determinari efectuate de Liberty Galati
				37 Kg/t sinter	0.1092	
				0.2767 g / t sinter	0.0934	
				0.1251 g / t sinter	0.3072	
				0.6005 g / t sinter	0.1659	
				0.5394 g / t sinter	0.0336	
				0.1756 g / t sinter	3.7121	
				5.6612 g / t sinter	0.9730	
				1.9313 g / t sinter		

DEPARTAMENT FURNALE

Sursa / Echipament depoluare existent	Puncte de emisie	Poluanți emiși	VLE (mg/ Nm3)	Valoare min masurata (mg/ Nm3)	Valoare max masurata (mg/ Nm3)	Tip monitorizare	Observatii
Cowper F4	Sistem de evacuare (cos)	Pulberi	10	-	-	Determinare lunara	Instalatie oprita
		NO _x	100	-	-		
		SO _x	200	-	-		
F4- turnare fonta, zgura / FS hala de turnare	Sistem de evacuare (cos)	Pulberi	15	-	-	Determinare continua	Instalatie oprita
F4- alimentare cu materii prime / FS estacada buncare	Sistem de evacuare (cos)	Pulberi	30	-	-	Determinare lunara	
F5 – alimentare cu materii prime / EF estacada buncare	Sistem de evacuare (cos)	Pulberi	40	1.12	12.48	Determinare lunara	
F5 – turnare fonta, zgura / FS hala de turnare	Sistem de evacuare (cos)	Pulberi	15	1.95	10.04	Determinare continua	Determinari efectuate de Liberty Galati
Cowper F5	Sistem de evacuare (cos)	Pulberi	15	6.97	7.68	Determinare discontinua	Incertitudinea de masurare a echipamentului de monitorizare continua <1%
		NO _x	10	2.89	9.52	Determinare lunara	Determinare efectuate de Liberty Galati in iunie
		SO _x	100	9	87		
Instalatie insuflare praf carbune/ FS insuflare carbune	Sistem de evacuare (cos)	Pulberi	20	1	146	Determinare continua	Determinari efectuate de Liberty Galati
				3.27	8.52	Determinare lunara	Determinari efectuate de Liberty Galati

OTELARIA LINTZ DONAWITZ NR. 1

Sursa / Echipament depoluare existent	Puncte de emisie	Poluantii emisi	VLE (mg/ Nm3)	Valoare min masurata (mg/ Nm3)	Valoare max masurata (mg/ Nm3)	Tip monitorizare	Observatii
Desulfurare fontă / filtru cu saci	Sistem de evacuare (coș)	Pulberi	10	1.49	7.70	Determinare lunara	Determinari efectuate de Liberty Galati
Epurare umedă a gazelor de convertizor la Convertizorul nr. 1	Sistem de evacuare (coș)	Pulberi	50	24.01	37.37	Determinare lunara	Determinari efectuate de Liberty Galati
Epurare umedă a gazelor de convertizor la Convertizorul nr. 2	Sistem de evacuare (coș)	Pulberi	50	18.18	34.37	Determinare lunara	Determinari efectuate de Liberty Galati
Epurare umedă a gazelor de convertizor la Convertizorul nr. 3	Sisteme de evacuare (coș)	Pulberi	50	12.11	34.42	Determinare lunara	Determinari efectuate de Liberty Galati
Tratamentul secundar al oțelului, omogenizare în oala LF	Sistem de evacuare (coș)	Pulberi	10	3.65	8.22	Determinare lunara	Determinari efectuate de Liberty Galati
Elaborarea oțelului (încărcare/ descărcare convertizor, insuflare oxigen, prelevare probe)/ FS desprăfuirea secundara	Sistem de evacuare (coș)	Pulberi	10	0.78	8.58	Determinare continua	Incertitudinea de masurare a echipamentului de monitorizare continua <1%
				5.35	6.18	Determinare discontinua	Determinare efectuata de Liberty Galati in iunie

Sursa / Echipament de depoluare	Puncte de emisie	Poluantii emisi	VLE g/ t oțel lichid	Valoare calculata g/ t oțel lichid	Tip monitorizare	Observatii
Epurare umedă a gazelor de convertizor la Convertizor nr. 1	Sistemele de evacuare (coș)	CO	16000	2297	Determinare anuala	Determinari efectuate de Liberty Galati in luna noiembrie
		NOx	20	14.43		
		SO2	5.5	3.72		
		Cadmium	0.2	0.14		
		Fier	83	51.17		
Epurare umedă a gazelor de convertizor la Convertizor nr. 2	Sistemele de evacuare (coș)	CO	16000	1596	Determinare anuala	Determinari efectuate de Liberty Galati in luna noiembrie
		NOx	20	18.34		
		SO2	5.5	3.62		
		Cadmium	0.2	0.11		
		Fier	83	74.89		
Epurare umedă a gazelor de convertizor la Convertizor nr. 3	Sistemele de evacuare (coș)	CO	16000	1848	Determinare anuala	Determinari efectuate de Liberty Galati in luna noiembrie
		NOx	20	15.99		
		SO2	5.5	4.92		
		Cadmium	0.2	0.14		
		Fier	83	75.30		

LAMINOR DE TABLA GROASA NR. 1

Sursa / Echipament depoluare existent	Puncte de emisie	Poluantii emisi	VLE (mg/ Nm3)	Valoare min masurata (mg/ Nm3)	Valoare max masurata (mg/ Nm3)	Tip monitorizare	Observatii
Cuptor cu propulsie nr. 1	Sistem de evacuare (cos)	pulberi	20	-	-	Determinare anuala	Instalatia oprita
		CO	170	-	-	Determinare lunara	
		NO _x	400	-	-		
		SO ₂	600	-	-		

LAMINOR DE TABLA GROASA NR. 2

Sursa / Echipament depoluare existent	Puncte de emisie	Poluantii emisi	VLE (mg/ Nm3)	Valoare min masurata (mg/ Nm3)	Valoare max masurata (mg/ Nm3)	Tip monitorizare	Observatii
Cuptor cu propulsie nr. 1	Sistem de evacuare (cos)	pulberi	20	5.74	7.74	Determinare anuala	Determinari efectuate de Liberty Galati
		CO	170	1	2	Determinare semestriala	Determinari efectuate de Liberty Galati
		NO _x	400	7	12		
		SO ₂	600	3	3		
Cuptor cu propulsie nr. 2	Sistem de evacuare (cos)	pulberi	20	3.95	6.33	Determinare anuala	Determinari efectuate de Liberty Galati
		CO	170	1	6	Determinare semestriala	Determinari efectuate de Liberty Galati
		NO _x	400	30	40		
		SO ₂	600	2	3		
Cuptor cu propulsie nr. 3	Sistem de evacuare (cos)	pulberi	20	5.12	9.29	Determinare anuala	Determinari efectuate de Liberty Galati
		CO	170	2	3	Determinare semestriala	Determinari efectuate de Liberty Galati
		NO _x	400	10	15		
		SO ₂	600	1	3		
Cuptor normalizare nr. 1	Sistem de evacuare (cos)	pulberi	20	4.62	4.62	Determinare anuala	Determinari efectuate de Liberty Galati
		CO	170	10	13	Determinare semestriala	Determinari efectuate de Liberty Galati
		NO _x	400	25	28		
		SO ₂	600	0	2		
Cuptor revenire	Sistem de evacuare (cos)	pulberi	20	4.00	4.31	Determinare anuala	Determinari efectuate de Liberty Galati
		CO	170	2	18	Determinare semestriala	Determinari efectuate de Liberty Galati
		NO _x	400	16	41		
		SO ₂	600	1	31		

LAMINOR DE BENZI LA CALD

Sursa / Echipament depoluare existent	Puncte de emisie	Poluanți emiși	VLE (mg/ Nm3)	Valoare min masurata (mg/ Nm3)	Valoare max masurata (mg/ Nm3)	Tip monitorizare	Observatii		
Cuptor cu propulsie nr. 1	Sistem de evacuare (cos N)	pulberi	20	6	6	Determinare anuala	Determinari efectuate de Liberty Galati		
		CO	170	46	55	Determinare semestriala	Determinari efectuate de Liberty Galati		
		NO _x	400	352	356				
		SO ₂	600	8	10				
	Sistem de evacuare (cos S)	pulberi	20	5	5	Determinare anuala	Determinari efectuate de Liberty Galati		
		CO	170	7	54	Determinare semestriala	Determinari efectuate de Liberty Galati		
		NO _x	400	317	345				
		SO ₂	600	8	34				
	Cuptor cu propulsie nr. 2	Sistem de evacuare (cos)	pulberi	20	6	6	Determinare anuala	Determinari efectuate de Liberty Galati	
			CO	170	1	38	Determinare semestriala	Determinari efectuate de Liberty Galati	
			NO _x	400	20	66			
			SO ₂	600	1	1			
Cuptor cu propulsie nr. 3			Sistem de evacuare (cos N)	pulberi	20	7	7	Determinare anuala	Determinari efectuate de Liberty Galati
				CO	170	1	5	Determinare semestriala	Determinari efectuate de Liberty Galati
	NO _x	400		215	225				
Cuptor cu propulsie nr. 3	Sistem de evacuare (cos S)	SO ₂	600	1	3	Determinare anuala	Determinari efectuate de Liberty Galati		
		pulberi	20	5	5				
		CO	170	1	7				
		NO _x	400	233	234	Determinare semestriala	Determinari efectuate de Liberty Galati		
		SO ₂	600	2	3				

LAMINOR DE BENZI LA RECE

Sursa / Echipament depoluare existent	Puncte de emisie	Poluantii emisi	VLE (mg/Nm3)	Valoare min masurata (mg/Nm3)	Valoare max masurata (mg/Nm3)	Tip monitorizare	Observatii
Cuptor tratament termic	Sistem de evacuare (cos)	pulberi	10	2.81	4.06	Determinare anuala	Determinari efectuate de Liberty Galati
			80	15	19	Determinare semestriala	Determinari efectuate de Liberty Galati
			350	40	92		
			100	1	6		
Baile de decapare cu HCl	Sistem de evacuare (cos)	Vapori HCl	30	12.20	18.78	Determinare semestriala	Determinari efectuate de firma terta: Rompetrol Quality control in sem 1, Balint Analitika in sem. 2
			20	10.47	10.47	Determinare anuala	Determinari efectuate de Liberty Galati
Instalatia de decapare cu HCl – desfundarizator și instalație sudură cap la cap și procesor	Sistem de evacuare (cos)	Pulberi	25	8.83	14.70	Determinare semestriala	Determinari efectuate de Liberty Galati
			20	10.6	15.1		Determinari efectuate de firma terta: Rompetrol Quality control in sem 1, Balint Analitika in sem. 2
Instalatia de regenerare a HCl	Sistem de evacuare (cos)	CO	150	26	47	Determinare semestriala	Determinari efectuate de Liberty Galati
			350	21	40		
			80	1	4		
			80	1	4		

INSTALATIA DE VOPSIRE TABLA SUBTIRE OC-LINE

Sursa / Echipament depoluare existent	Puncte de emisie	Poluantii emisi	VLE (mg/Nm3)	Valoare min masurata (mg/Nm3)	Valoare max masurata (mg/Nm3)	Tip monitorizare	Observatii
Instalatie de incinerare prin oxidare termica cu recuperare de caldura	Sistem de evacuare (cos)	pulberi	5	3.17	4.11	Determinare semestriala	Determinari efectuate de Liberty Galati
			200	83	152	Determinare lunara	
			200	15	135		
			35	1	23		
			COV (COT)	20	7.94		
Scrubber umed cu pat mobil	Sistem de evacuare (cos)	HF	10	1.91	4.15	Determinare trimestriala	Determinari efectuate de Liberty Galati
			50	< 0.04		Determinari efectuate de Balint Analitika	
Boiler	Sistem de evacuare (cos)	Pulberi	5	1.7	1.7	Determinare anuala	Determinari efectuate de Liberty Galati
			100	14	29		
			350	25	85		
			35	0	1		
Ciclion	Sistem de evacuare (cos)	Pulberi	50	0.90	8.48	Determinare semestriala (functie de debitul masurat)	Determinari efectuate de Liberty Galati

ZINCARE

Sursa / Echipament depoluare existent	Puncte de emisie	Poluanti emiși	VLE (mg/ Nm3)	Valoare min masurata (mg/ Nm3)	Valoare max masurata (mg/ Nm3)	Tip monitorizare	Observatii
Cuptor tratament termic	Sistem de evacuare (cos)	pulberi	4	2.66	2.66	Determinare anuala	Determinari efectuate de Liberty Galati
		CO	20	6	9	Determinare semestriala	Determinari efectuate de Liberty Galati
		NO _x	300	93	120		
		SO _x	40	20	31		

DPDES

Sursa / Echipament depoluare existent	Puncte de emisie	Poluanti emiși	VLE (mg/ Nm3)	Valoare min masurata (mg/ Nm3)	Valoare max masurata (mg/ Nm3)	Tip monitorizare	Observatii
Cazan abur nr.1	Sistem de evacuare (cos)	NO _x	200	17	47	Determinare semestriala	Determinari efectuate de Liberty Galati
		SO _x	200	2	28		
		pulberi	10	1.12	1.70		
Cazan abur nr.2	Sistem de evacuare (cos)	NO _x	200	13	22	Determinare semestriala	Determinari efectuate de Liberty Galati
		SO _x	200	5	24		
		pulberi	10	1.13	1.21		
Cazan abur nr.3	Sistem de evacuare (cos)	NO _x	200	-	-	Determinare semestriala	Instalatie oprita
		SO _x	200	-	-		
		pulberi	10	-	-		
Cazan abur nr.4	Sistem de evacuare (cos)	NO _x	200	-	-	Determinare semestriala	Instalatie oprita
		SO _x	200	-	-		
		pulberi	10	-	-		
Cazan abur nr.5	Sistem de evacuare (cos)	NO _x	200	16	56	Determinare semestriala	Determinari efectuate de Liberty Galati
		SO _x	200	23	24		
		pulberi	10	2.49	4.28		
Cazan abur nr.6	Sistem de evacuare (cos)	NO _x	200	-	-	Determinare semestriala	Instalatie oprita
		SO _x	200	-	-		
		pulberi	10	-	-		
Cazan abur nr.7	Sistem de evacuare (cos)	NO _x	200	32	106	Determinare semestriala	Determinari efectuate de Liberty Galati
		SO _x	200	5	31		
		pulberi	10	1.40	2.83		
Cazan abur nr.8	Sistem de evacuare (cos)	NO _x	200	2	43	Determinare semestriala	Determinari efectuate de Liberty Galati
		SO _x	200	1	5		
		pulberi	10	1.58	3.08		

Cazan abur nr.9	Sistem de evacuare (cos)	NO _x	200	-	-	Determinare semestriala	Instalatie oprita	
			SO _x	200	-			
			pulberi	10	-			
Cazan abur nr.10	Sistem de evacuare (cos)	NO _x	200	30	91	Determinare semestriala	Determinari efectuate de Liberty Galati	
			SO _x	200	12			51
			pulberi	10	1.09			3.74
Cazan abur nr.11	Sistem de evacuare (cos)	NO _x	200	38	99	Determinare semestriala	Determinari efectuate de Liberty Galati	
			SO _x	200	35			46
			pulberi	10	1.04			4.14
Cazan abur nr.12	Sistem de evacuare (cos)	NO _x	200	*	*	Determinare semestriala	Instalatie oprita	
			SO _x	200	-			-
			pulberi	10	-			-

DEPARTAMENT MENTENANTA CENTRALA

Sursa / Echipament depoluare existent	Puncte de emisie	Poluanti emisi	VLE (mg/ Nm3)	Valoare min masurata (mg/ Nm3)	Valoare max masurata (mg/ Nm3)	Tip monitorizare	Observatii
Cuptor electric de ars motoare – arderea lacului de impregnare si a flantului de pe izolatia motoarelor	Sistem de evacuare (cos)	CO	100	67	75	Determinare semestriala	Determinari efectuate de Liberty Galati
		NO _x	350	154	159		
		SO ₂	35	22	26		
		Pulberi	50	7.16	11.67		

DEPARTAMENT PIESE SCHIMB

Sursa / Echipament depoluare existent	Puncte de emisie	Poluanti emisi	VLE (mg/ Nm3)	Valoare min masurata (mg/ Nm3)	Valoare max masurata (mg/ Nm3)	Tip monitorizare	Observatii
Cuptor tratament termic cu vatra mobila 16m2	Sistem de evacuare (cos)	CO	100	24	30	Determinare semestriala	Determinari efectuate de Liberty Galati
		NO _x	350	114	130		
		SO ₂	35	4	6		
		Pulberi	5	1.77	3.08		

Observatii:

Pentru verificarea conformitatii datelor, in 2021 s-au realizat masuratori cu laborator tert specializat Rompetrol Quality Control Constanta si cu Balint Analitika.

Intocmit,
Butuc Ana-Lucia



2021
EMISII IN APA

Sursa generatoare	Natura apei	Punct de prelevare ape uzate	Indicatori de calitate	VLE conform AIM mg/l	valoare min masurata, mg/l	valoare max masurata, mg/l
Departament Aglomerare si Materii prime						
Răcirea indirectă a utilajelor, a exhaustoarelor și a sistemelor de ungere - Aglomerare 2	Ape uzate tehnologice	Colector 4- Aglomerare 2	SS	350	76	95
			Fe total	5	1.26	1.40
			Ni	1	0.015*	0.015*
			Zn	1	0.005*	0.005*
			Pb	0.5	0.058*	0.058*
Departament Furnale						
(nefuncționarea separatorului Flottweg), Turnarea fontei pe banda in vederea răcirii formelor Preaplin turn răcire epurare si bazin apa decanata Preaplinul spălării decantoare Spălări turnuri	Ape uzate tehnologice	Colector 5F	SS	350	75	124
			CN	1	0.029	0.200
			Fe total	5	1.320	1.820
			Zn	1	0.390	0.610
			Pb	0.5	0.140	0.260
Surplusul de apa din bazinele de granulare	Ape uzate tehnologice	Colector 8	SS	350	70	172
			S ²⁻ +H ₂ S	1	0.580	0.820
			SO ₄ ²⁻	600	110	216
			Fe total	5	1.20	3.88
OLD1+ TC1						
Spălarea bazinelor decantoare apa, spălarea turnurilor de răcire- OLD1	Ape uzate tehnologice si pluviala	La evacuarea apelor uzate din OLD1 in Colector 3	SS	350	76	132
			Fe total	5	1.06	2.69
			Zn	1	0.020	0.036
			Ni	1	0.015*	0.015*
			SE	30	4.20	6.00
TC1 Răcire secundara mașini turnare Circuite de răcire prin stropire-	Ape uzate tehnologice si pluviala	La evacuarea apelor uzate din TC1 in Colector 3	SS	350	58	117
			Fe total	5	0.742	1.20
			Zn	1	0.018	0.030
			Ni	1	0.015*	0.015*
			SE	30	4.80	6.20
LTG2, LBC, Zincare						
Răcirea directă a cilindrilor de laminare, tamburilor .	Ape uzate tehnologice	Malina Nord	pH	6.5-8.5	6.98	8.08
			Suspensii	60	40.4	49.9
			CCO-Cr	125	98	107
			Reziduu filtrabil	2000	1380	1461
			CBOS	25	20	22
			Cloruri	300	129.2	162.6
			Sulfati	300	84	100
			Azotati	25	10.15	12.11
			Azotiti	1	0.348	0.430
			Amoniu	2	1.447	1.627
			Fier total	5	1.29	2.64
			Sulfuri+H ₂ S	0.5	0.2	0.4
			Compusi fenolici	0.3	0.030	0.038
			Cianuri	0.1	0.030	0.046
			Subst.extract.	20	3.19	5.67
			Crom	1	0.024*	0.024*
			Mangan	1	0.033	0.060
			Nichel	0.5	0.015*	0.015*
			Zinc	0.5	0.018	0.034
			Plumb	0.2	0.058*	0.058*
			Cupru	0.1	0.001*	0.001*
			Hexaclorbenzen, μg/l	-	-	<0.01
			Benzo piren, μg/l	-	-	<0.01

Nota: Hexaclorbenzen, Benzo piren- frecventa de monitorizare semestriala.

Sursa generatoare	Natura apel	Punct de prelevare ape uzate	Indicatori de calitate	VLE conform Autorizatiei mg/l	valoare min masurata, mg/l	valoare max masurata, mg/l
LBR						
Instalatia de neutralizare a apelor uzate provenite de la decaparea cu HCl	Ape uzate tehnologice	Malina Nord	pH	6.5-8.5	6.98	8.08
			Suspensii	60	40	50
			CCO-Cr	125	98	107
			Reziduu filtrabil	2000	1380	1461
			CBO5	25	20	22
			Cloruri	300	129.2	162.6
			Sulfati	300	84	100
			Azotati	25	10.15	12.11
			Azotiti	1	0.348	0.430
			Amoniu	2	1.447	1.627
			Fier total	5	1.3	2.6
			Sulfuri+H2S	0.5	0.2	0.4
			Compusi fenolici	0.3	0.030	0.038
			Cianuri	0.1	0.030	0.046
			Subst.extract.	20	3.19	5.67
			Crom	1	0.024*	0.024*
			Mangan	1	0.033	0.060
			Nichel	0.5	0.015*	0.015*
			Zinc	0.5	0.018	0.034
			Plumb	0.2	0.058*	0.058*
Cupru	0.1	0.001*	0.001*			
Hexaclorbenzen,µg/l	-	-	<0.01			
Benzo piren,µg/l	-	-	<0.01			
LBR- Instalatie de vopsire table subtiri						
Statia de tratare a apelor uzate provenite de la OC-Line	Ape uzate tehnologice	La evacuarea apelor uzate din statia de tratare a apelor uzate provenite de la OC- Line	pH	6.5-8.5	7.66	8.36
			Suspensii	350	47	120
			CCO-Cr	500	84	129
			Fosfor total	5	0.96	1.43
			Subst.extract.	30	5.10	7.40
			Fier total	5	1.02	1.92
			Zinc	1	0.053	0.096
			Crom	1.5	0.024*	0.024*
			Plumb	0.5	0.058*	0.058*
			Nichel	1	0.015*	0.015*
DPDES						
Răcirea directa a lagărelor utilajelor din CTS 1 si CTS 2	Ape uzate tehnologice si pluviale	Colectorul 8	SS	350	70	172
			S ²⁺ +H ₂ S	1	0.580	0.820
			SO ₄ ²⁻	600	110	216
			Fe total	5	1.20	3.88
Răcirea directa a lagărelor utilajelor din CTS 3	Ape uzate tehnologice si pluviale	Colector Valea Lupului	pH	6.5-8.5	7.39	7.72
			Suspensii	60	43	51
			CCO-Cr	125	56	65
			Reziduu filtrabil	1500	465	579
			CBO5	25	18	20
			Azotati	25	9.02	11.50
			Azotiti	1	0.447	0.735
			Amoniu	2	1.140	1.403
			Sulfuri+H2S	0.5	0.2	0.3
			Compusi fenolici	0.3	0.017	0.021
			Cianuri	0.1	0.016	0.021
			Subst.extract.	20	1.117	2.247
			Crom total	1	0.024*	0.024*
			Zinc	0.5	0.005*	0.005*
Cupru	0.1	0.001*	0.001*			
Statia de tratare apa industriala	Ape uzate tehnologice	Iaz Catusa	pH	6.5-8.5	7.58	8.17
			Suspensii	60	39	49
			CCO-Cr	125	70	83
			Reziduu filtrabil	1500	469	516
			CBO5	25	20	21
			Cloruri	300	34.7	54.1
			Sulfati	300	48	53
			Azotati	25	10.75	12.52
			Azotiti	1	0.362	0.455
			Amoniu	2	1.324	1.753
			Sulfuri+H2S	0.5	0.2	0.3
			Compusi fenolici	0.3	0.021	0.028
			Cianuri	0.1	0.020	0.025
			Subst.extract.	20	1.63	2.53
Crom total	1	0.024*	0.024*			
Zinc	0.5	0.005*	0.005*			
Cupru	0.1	0.001*	0.001*			
Statia de apa demineralizata	Ape uzate tehnologice	Evacuare in Colector 3	SS	350	88	101
			Ca	300	123	136
			Mg	100	64	79

Sursa generatoare	Natura apel	Punct de prelevare ape uzate	Indicatori de calitate	VLE conform Autorizatiei mg/l	valoare min masurata, mg/l	valoare max masurata, mg/l
SERVICII						
Tratamente termice	Ape uzate tehnologice	Colector 2	pH	6.5-8.5	7.49	7.85
			Suspensii	60	37.86	48.86
			CCO-Cr	125	52.57	73.33
			Reziduu filtrabil	1500	420.67	483.67
			CBOS	25	18.73	20.13
			Cloruri	300	42.33	58.00
			Sulfati	300	49.53	60.67
			Azotati	25	10.66	12.37
			Azotiti	1	0.337	0.410
			Amoniu	2	0.474	0.640
			Sulfuri+H2S	0.5	0.137	0.287
			Compusi fenolici	0.3	0.023	0.027
			Clanuri	0.1	0.022	0.027
			Subst.extract.	20	1.1	1.9
			Crom total	1	0.024*	0.024*
			Zinc	0.5	0.005*	0.005*
			Cupru	0.1	0.001*	0.001*
DMC- Instalatia de spalare motoare Rezervor1	Ape uzate tehnologice	Colector 3	Suspensii	350	126.00	180.00
			Cloruri	500	136.00	185.00
			Sulfuri si H2S	1	0.57	0.74
			Sulfati	600	101.00	132.00
			SE	30	9.60	13.60
			Produse petroliere	5	2.60	4.20
			Detergenti sintetici	25	2.50	7.40

Nota: Aglomerare 1, Produse Auxiliare, LTG1, UPS- instalatii oprite temporar.

Intocmit,
Clobotaru Daniela
Chifor Tincuta
Sava Simona

Sef Serviciu Reglementare si Monitorizare,
fiz. Nastase Cirstina

CALITATEA SOLULUI

2021

CALITATEA SOLULUI

Zone de prelevare:

1. Instalatii neconforme:

- OLD3;

2. Instalatii conforme:

- DAMP;
- Furnale & DLI;
- OLD1;
- Fabrica de Var nr. 1(Produse Auxiliare);
- LTG1 & LTG2;
- LBR & LBC & LBZ (Zincare);
- DPS & DMC;
- DPDES.



LIBERTY

LIBERTY GALATI SA

• OLD3 (2021)

Nr. crt.	Locul recoltării	Indicatori									
		pH	Cu	Pb	Zn	Cd	Ni	Mn	Cr	SO ₄ ²⁻	
Valoare masurata											
1	Zona decantatoare GA OLD 3 - TC3 - 0-5 cm suprafata	8.45	41.22	50.24	95.20	0.085	34.25	555.00	23.63	352.14	
2	Zona decantatoare GA OLD 3 - TC3 - 30-40 cm adancime	8.32	43.64	48.22	98.68	0.082	33.20	536.24	21.78	313.28	
3	Zona vest amplasament OLD 3 - TC3 - 0-5 cm suprafata	8.25	44.58	48.26	89.56	0.096	49.52	606.58	22.36	236.58	
4	Zona vest amplasament OLD 3- TC3- 30-40 cm adancime	8.15	47.26	46.00	94.26	0.084	44.00	574.25	21.21	241.00	
5	Zona sud amplasament OLD 3- TC3 - 0-5 cm suprafata	8.36	46.74	51.00	90.00	0.102	43.62	585.24	24.56	275.45	
6	Zona sud amplasament OLD 3 - TC3 - 30-40 cm adancime	8.29	45.25	46.24	93.00	0.098	42.00	565.24	20.84	268.00	
	Incertitudine %	±2	± 2.02	± 3.7	± 3.8	±2.4	±4.4	± 2.15	±4.2	± 10	
VLE pentru soluri mai putin sensibile conform Autorizatiei Integrate de Mediu nr. 1 / 24.08.2015, rev. 05.03.2020		7.5-8.5	<250	250	<700	5	<200	<2000	<300	<5000	

Note:

Valorile inscrise in tabel sunt pentru soluri mai putin sensibile.
Frecventa de monitorizare anuala.



LIBERTY

LIBERTY GALATI S.A.

• Aglomerare (2021)

Nr. crt.	Locul recoltării	Indicatori									
		Cu	Pb	Zn	Cd	Ni	Mn	Cr	SO ₄ ²⁻		
		mg/Kg									
Valoare masurata											
1	Zona Aglomerare 1 - 0-5 cm suprafata	50.25	52.52	111.20	1.00	38.66	708.82	26.00	341.22		
2	Zona Aglomerare 1- 30- 40 cm adancime	51.66	53.68	116.56	1.16	40.28	724.12	23.43	325.00		
3	Zona Aglomerare 2- 0-5 cm suprafata	50.23	47.12	109.34	1.14	49.24	625.45	24.15	358.00		
4	Zona Aglomerare 2 - 30- 40 cm adancime	45.48	48.74	104.28	1.18	46.00	654.23	23.63	321.54		
5	Poarta Sud - 0-5 cm suprafata	49.47	45.00	110.00	1.20	47.12	640.00	22.52	244.00		
6	Poarta Sud -30- 40 cm adancime	44.20	42.42	104.14	1.10	46.00	621.84	23.12	251.11		
7	Poarta Vest - 0-5 cm suprafata	48.56	46.36	98.48	1.31	43.21	618.00	26.00	225.46		
8	Poarta Vest - 30- 40 adancime	49.24	43.34	97.38	1.22	40.85	633.42	24.16	253.68		
	Incertitudine %	±2.02	±3.7	±3.8	±2.4	±4.4	±2.15	±4.2	±10		
	VLE pentru soluri mai putin sensibile conform Autorizatiei Integrate de Mediu nr. 1 / 24.08.2015, rev. 05.03.2020	<250	250	<700	5	<200	<2000	<300	<5000		

Note:

Valorile inscrise in tabel sunt pentru soluri mai putin sensibile.
Frecventa de monitorizare anuala.



LIBERTY

LIBERTY GALATI S.A.

• Furnale & DLI (2021)

Nr. crt.	Locul recoltării	Indicatori									
		Cu	Pb	Zn	Cd	Ni	Mn	Cr	SO ₄ ²⁻		
Valoare masurata											
1	Zona Separator slam - 0-5 cm suprafata	75.45	54.71	116.53	1.23	61.00	702.00	29.62	332.00		
2	Zona Separator slam - 30-40 cm adancime	67.23	57.00	109.00	1.28	56.96	688.48	31.00	300.00		
3	Zona Instalatie granulare zgura - 0-5 cm suprafata	70.14	48.34	96.36	1.58	48.42	654.25	28.00	346.26		
4	Zona Instalatie granulare zgura , 30-40 cm adancime	67.46	49.24	91.45	1.26	45.26	693.27	27.10	371.24		
5	Zona Depozit ulei SEIRA - 0-5 cm suprafata	44.25	61.00	89.56	1.17	56.00	674.48	29.14	400.14		
6	Zona Depozit ulei SEIRA- 30-40 cm adancime	40.18	56.38	84.47	1.05	50.12	701.21	31.00	385.45		
7	Zona F3- 0-5 cm suprafata	47.59	45.29	109.45	1.29	49.62	695.25	28.00	351.62		
8	Zona F3- 30-40 cm adancime	49.24	44.16	119.32	1.14	47.00	698.38	30.28	321.00		
9	Poarta Sud- 0-5 cm suprafata	49.47	45.00	110.00	1.20	47.12	640.00	22.52	244.00		
10	Poarta Sud- 30-40cm adancime	44.20	42.42	104.14	1.10	46.00	621.84	23.12	251.11		
11	Poarta Vest - 0-5 cm suprafata	48.56	46.36	98.48	1.31	43.21	618.00	26.00	225.46		
12	Poarta Vest - 30-40 adancime	49.24	43.34	97.38	1.22	40.85	633.42	24.16	253.68		
13	Smardan- 0-5 cm suprafata	90.32	50.00	100.00	1.34	50.16	692.00	32.00	293.00		
14	Smardan-30-40 cm adancime	86.58	46.56	97.28	1.21	44.74	655.42	30.22	303.26		
15	Sendreni- 0-5 cm suprafata	51.46	44.72	101.26	1.41	52.17	684.52	33.60	311.00		
16	Sendreni- 30-40 cm adancime	48.22	48.52	98.54	1.18	44.85	714.23	30.16	325.28		
	Incertitudine %	±2.02	±3.7	±3.8	±2.4	±4.4	±2.15	±4.2	±10		
	VLE pentru soluri mai putin sensibile conform Autorizatii Integrate de Mediu nr. 1 / 24.08.2015, rev. 05.03.2020	<250	250	<700	5	<200	<2000	<300	<5000		

Note:

Valorile inscrise in tabel sunt pentru soluri mai putin sensibile.
Frecventa de monitorizare anuala.

**LIBERTY**

LIBERTY GALATI S.A.

• OLD1 (2021)

Nr. crt.	Locul recoltării	Indicatori									
		Cu	Pb	Zn	Cd	Ni	Mn	Cr	SO ₄ ²⁻		
Valoare masurata											
1	Zona hala convertizoare, 0-5 cm suprafata	52.36	48.45	106.64	1.20	42.38	695.25	24.56	251.11		
2	Zona hala convertizoare, 30-40 cm adancime	54.26	49.35	108.54	1.12	40.17	705.26	22.58	248.74		
3	Zona cladire administrativa OLD1, 0-5 cm suprafata	52.76	52.21	104.75	1.36	60.25	580.45	21.36	288.14		
4	Zona cladire administrativa OLD1, 30-40 cm adancime	51.32	54.00	107.00	1.30	58.75	524.78	20.48	276.96		
5	Zona decantare GA OLD1-TC1, 0-5 cm suprafata	49.62	60.00	115.00	1.23	46.96	699.26	22.59	260.78		
6	Zona decantare GA OLD1-TC1, 30-40 cm adancime	51.66	58.12	106.26	1.30	44.13	700.00	21.74	272.36		
7	Zona nord a halelor de turnare otel, 0-5 cm suprafata	68.55	44.27	85.36	1.40	51.56	633.00	26.32	272.61		
8	Zona nord a halelor de turnare otel, 30-40 cm adancime	70.00	42.42	86.47	1.35	53.42	611.14	25.12	269.73		
9	Zona est a halelor de turnare otel, 0-5 cm suprafata	59.74	58.68	98.59	1.32	49.25	760.47	26.47	282.22		
10	Zona est a halelor de turnare otel, 30-40 cm adancime	62.85	60.14	101.16	1.41	51.94	715.00	25.51	274.58		
11	Zona vest amplasament OLD1-TC1, 0-5 cm suprafata	72.92	48.70	88.41	1.27	43.29	644.00	21.32	211.48		
12	Zona vest amplasament OLD1-TC1, 30-40 cm adancime	74.00	49.33	82.56	1.06	45.00	634.15	20.15	207.41		
13	Zona nord amplasament OLD1-TC1, 0-5 cm suprafata	53.64	51.51	93.00	1.00	40.23	619.56	19.87	250.39		
14	Zona nord amplasament OLD1-TC1, 30-40 cm adancime	50.52	53.55	96.15	1.28	42.51	622.18	21.11	241.24		
	Incertitudine %	± 2.02	± 3.7	± 3.8	± 2.4	± 4.4	± 2.15	± 4.2	± 10		
	VLE pentru soluri mai putin sensibile conform Autorizatiei Integrate de Mediu nr. 1 / 24.08.2015, rev. 05.03.2020	<250	250	<700	5	<200	<2000	<300	<5000		

Note:Valorile inscrise in tabel sunt pentru soluri mai putin sensibile.
Frecventa de monitorizare anuala.

**LIBERTY**

LIBERTY GALATI S.A.

♦ Fabrica de Var nr. 1 (2021)

Nr. crt.	Locul recoltării	Indicatori									
		pH	Cu	Pb	Zn	Cd	Ni	Mn	Cr	SO ₄ ²⁻	mg/kg
1	Zona Fabrica de var 1-zona instalatiei de sortare-concasare calcar si a CRV1 -0-5 cm suprafata	8.31	63.28	46.22	97.34	1.26	45.79	630.17	30.61	187.63	
2	Zona Fabrica de var 1-zona instalatiei de sortare-concasare calcar si a CRV1 -30-40 cm adancime	8.27	64.21	45.91	90.12	1.08	42.68	627.41	32.74	190.14	
3	La distanta de 1 km pe directia sud fata de Fabrica de var nr.1 - 0-5 cm suprafata	8.19	60.37	67.62	98.67	1.12	40.37	680.11	21.51	221.03	
4	La distanta de 1 km pe directia sud fata de Fabrica de var nr.1 - 30-40 cm adancime	8.20	58.79	65.39	95.33	1.00	41.85	700.52	22.69	245.88	
5	La distanta de 1 km pe directia vest fata de Fabrica de var nr.1 - 0-5 cm suprafata	8.23	52.68	50.11	111.12	1.60	45.66	599.06	22.37	176.31	
6	La distanta de 1 km pe directia vest fata de Fabrica de var nr.1 - 30-40 cm adancime	8.26	55.16	52.67	110.28	1.69	47.07	581.37	24.16	180.22	
	Incertitudine %	± 2	± 2.02	± 3.7	± 3.8	± 2.4	± 4.4	± 2.15	± 4.2	± 10	
	VLE pentru soluri mai putin sensibile conform Autorizatiei Integrate de Mediu nr. 1 / 24.08.2015, rev. 05.03.2020	7.5-8.5	<250	250	<700	5	<200	<2000	<300	<5000	

Note:

Valorile inscrise in tabel sunt pentru soluri mai putin sensibile.
Frecventa de monitorizare anuala.

**LIBERTY**

LIBERTY GALATI S.A.

• LTG1 & LTG2 (2021)

Nr. crt.	Locul recoltării	Indicatori									
		Cu	Pb	Zn	Cd	Ni	Mn	Cr	SO ₄ ²⁻		
		mg/Kg									
Valoare masurata											
1	Zona LTG1-sud ULP, 0-5 cm suprafata	56.39	62.63	120.89	1.68	48.79	756.12	26.68	220.20		
2	Zona LTG1-sud ULP, 30-40 cm adancime	52.55	59.87	117.24	1.60	50.27	760.11	25.71	218.12		
3	Zona LTG1-Nord ULP ,bloc administrativ, 0-5 cm suprafata	53.69	54.37	129.35	1.96	51.26	758.37	24.24	220.05		
4	Zona LTG1-Nord ULP ,bloc administrativ , 30-40 cm adancime	60.24	60.11	117.42	1.84	49.68	742.60	22.58	218.72		
5	Zona vest LTG2, 0-5 cm suprafata	62.55	60.33	121.67	1.08	46.38	850.24	21.27	225.11		
6	Zona vest LTG2, 30-40 cm adancime	57.28	65.89	115.46	1.17	41.47	844.36	22.64	220.37		
	Incertitudine %	± 2.02	± 3.7	± 3.8	± 4.3	± 5.2	± 2.15	± 7.8	± 10		
VLE pentru soluri mai putin sensibile conform Autorizatiei Integrate de Mediu nr. 1 / 24.08.2015, rev. 05.03.2020		<250	250	<700	5	<200	<2000	<300	<5000		

Note:

Valorile inscrise in tabel sunt pentru soluri mai putin sensibile.
Frecventa de monitorizare anuala.



LIBERTY

LIBERTY GALATI S.A.

• LBR & LBC (2021)

Nr. crt.	Locul recoltării	Indicatori									
		Cu	Pb	Zn	Cd	Ni	Mn	Cr	SO ₄ ²⁻	mg/kg	
1	Zona dintre LBR-LBC- 0-5 cm suprafața	81.26	70.12	120.39	1.67	50.71	672.59	33.69	311.56		
2	Zona dintre LBR-LBC, 30-40 cm adancime	77.36	68.52	124.58	1.51	46.37	657.41	30.69	284.99		
	Incertitudine %	± 2.02	± 3.7	± 3.8	± 2.4	± 4.4	± 2.15	± 4.2	± 10		
VLE pentru soluri mai puțin sensibile conform Autorizatiei Integrate de Mediu nr. 1 / 24.08.2015, rev. 05.03.2020		<250	250	<700	5	<200	<2000	<300	<5000		

Note:

Valorile inscrise in tabel sunt pentru soluri mai puțin sensibile.

Frecventa de monitorizare anuala.

**LIBERTY**

LIBERTY GALATI SA

• Zincare (2021)

Nr. crt.	Locul recoltării	Indicatori									
		Cu	Pb	Zn	Cd	Ni	Mn	Cr	Fe	SO ₄ ²⁻	
		mg/kg									
Valoare masurata											
1	Zona vest IZ langa LBR-0-5 cm suprafata	71.39	53.97	160.27	1.36	55.27	620.33	33.97	27557.00	287.42	
2	Zona vest IZ langa LBR-30-40 cm adancime	68.56	51.48	155.61	1.30	54.66	618.72	32.76	28963.00	300.88	
3	Zona nord IZ spre LSF-0-5 cm suprafata	55.11	57.24	108.94	1.72	53.67	651.11	32.54	24712.00	377.95	
4	Zona nord IZ spre LSF-30-40 cm adancime	53.69	52.17	100.41	1.67	52.55	622.63	31.89	24634.00	368.67	
5	Zona est IZ spre LBC-0-5 cm suprafata	73.97	57.69	150.33	1.42	54.69	831.12	32.97	35387.00	311.61	
6	Zona est IZ spre LBC-30-40 cm adancime	70.85	60.28	141.27	1.38	53.94	829.24	31.51	35355.00	300.24	
	Incertitudine %	± 2.02	± 3.7	± 3.8	± 4.3	± 5.2	± 2.15	± 7.8	± 9.4	± 10	
VLE pentru soluri mai putin sensibile conform Autorizatiei Integrate de Mediu nr. 1 / 24.08.2015, rev. 05.03.2020		<250	250	<700	5	<200	<2000	<300	50 000	<5000	

Note:Valorile inscrise in tabel sunt pentru soluri mai putin sensibile.
Frecventa de monitorizare anuala.



LIBERTY
LIBERTY GALATI S.A.

• DPS & DMC (2021)

Nr. crt.	Local recontădă	Indicatori										
		Cu	Pb	Zn	Cd	Fe	Ni	Mn	Cr	SO ₄		
Valoare măsurată												
1	Vest DMP5 in vecinatatea LT61, 0-5 cm suprafață	40.15	44.73	128.76	1.42	26458	30.28	625.26	25.63	227.04		
2	Vest DMP5 in vecinatatea LT61, 30-40 cm adancime	39.83	42.91	124.38	1.39	25627	31.47	638.71	24.29	220.38		
3	Nordul DMP5 in vecinatatea OLD3, 0-5 cm suprafață	60.28	45.28	142.29	1.38	27626	33.87	860.29	33.69	209.63		
4	Nordul DMP5 in vecinatatea OLD3, 30-40 cm adancime	55.46	50.27	150.61	1.31	26876	31.59	853.12	35.87	198.75		
5	Estul DMP5 spre atelier intretinere mecanica, 0-5 cm suprafață	58.67	51.44	100.26	1.39	29315	35.28	578.06	23.68	297.36		
6	Estul DMP5 spre atelier intretinere mecanica, 30-40 cm adancime	55.26	54.28	105.57	1.25	28639	36.34	606.18	22.71	302.56		
7	Sudul DMP5 in vecinatatea directiei administrative, 0-5 cm suprafață	50.48	52.31	100.11	1.50	23024	32.69	711.63	22.19	133.57		
8	Sudul DMP5 in vecinatatea directiei administrative, 30-40 cm adancime	48.71	50.35	97.92	1.44	22017	31.23	729.47	24.28	140.15		
9	Limita sudica a DMP5, langa OLD1, 0-5 cm suprafață	52.59	53.29	110.27	1.30	23694	37.11	725.33	23.97	240.19		
10	Limita sudica a DMP5, langa OLD1, 30-40 cm adancime	60.39	59.71	101.22	1.26	22527	41.16	717.46	24.18	231.62		
11	Limita nordica a DMP5, langa TCS, 0-5 cm suprafață	50.22	41.36	112.16	1.42	26128	43.94	729.61	24.29	220.39		
12	Limita nordica a DMP5, langa TCS, 30-40 cm adancime	47.18	42.67	110.34	1.32	25639	42.27	737.19	23.67	211.47		
13	Estul RS in vecinatatea fluxului speciale, 0-5 cm suprafață	51.87	54.67	100.67	1.60	25148	40.19	717.15	22.41	253.71		
14	Estul RS in vecinatatea fluxului speciale, 30-40 cm adancime	50.67	50.28	90.49	1.53	25122	41.27	664.18	24.59	242.28		
15	SRM-Reconditionari Cilindri Laminatoare- Zona halei masini unelte, 0-5 cm suprafață	60.22	61.22	93.68	1.07	-	37.71	770.04	30.11	270.18		
16	SRM-Reconditionari Cilindri Laminatoare- Zona halei masini unelte, 30-40 cm adancime	59.11	57.69	98.18	1.01	-	39.94	761.21	27.71	264.44		
	Incertitudine %	±2.02	±3.7	±3.8	±4.6	±7.8	±8	±2.15	±9.7	±10		
	VLE pentru soluri mai putin sensibile conform Autorizatiei Integrate de Mediu nr. 1 / 24.08.2015, rev. 05.03.2020	<250	750	<700	5	<50 000	<200	<2000	<300	<5000		

Note:

Valorile inscrite in tabel sunt pentru soluri mai putin sensibile.

Frecventa de monitorizare anuala.

Pentru zona SRM-Reconditionari Cilindri Laminatoare- Zona halei masini unelte nu este prevazuta analiza indicatorului Fe.



LIBERTY

LIBERTY GALATI S.A.

• DPDES (2021)

Nr. crt.	Locul recoltării	Indicatori									
		Cu	Pb	Zn	Cd	Ni	Min	Cr	SO ₄ ²⁻		
		mg/Kg									
Valoare masurata											
1	Zona CTS1- zona cazanului 3, 0-5 cm suprafața	65.23	72.59	130.24	2.69	42.62	611.31	27.72	328.11		
2	Zona CTS1- zona cazanului 3, 30-40 cm adancime	70.26	69.87	120.97	2.17	39.27	597.68	25.94	306.45		
3	Zona CTS2 -perimetru turn racire , 0-5 cm suprafața	53.69	50.29	100.26	3.16	44.59	904.11	29.38	350.27		
4	Zona CTS2 -perimetru turn racire , 30-40 cm adancime	50.28	46.38	110.14	2.74	43.18	895.27	27.42	339.61		
5	Zona CTS3- zona cazanului 15, 0-5 cm suprafața	42.67	50.63	98.33	2.22	40.39	887.63	28.39	380.42		
6	Zona CTS3- zona cazanului 15, 30-40 cm adancime	44.27	48.25	106.51	2.31	38.23	874.12	26.28	396.17		
	Incertitudine %	± 2.02	± 3.7	± 3.8	± 4.3	± 5.2	± 2.15	± 7.8	± 10		
	VLE pentru soluri mai puțin sensibile conform Autorității Integrate de Mediu nr. 1 / 24.08.2015, rev. 05.03.2020	<250	250	<700	5	<200	<2000	<300	<5000		

Note:

Valorile inscrise in tabel sunt pentru soluri mai puțin sensibile.
Frecventa de monitorizare anuala.

Observatii privind monitorizarea calitatii solului in instalatiile conforme:

1. Datele reprezentate monitorizarea anuala realizata de Laboratorul de Mediu din cadrul LIBERTY GALATI SA, in cursul anului 2021.

2. Pentru verificarea conformitatii datelor se realizeaza anual determinari cu laboratorul. Se anexeaza rapoartele de incercare emise de laborator.

3. Analizand valorile rezultatelor obtinute, nu se inregistreaza depasiri ale valorilor limita prevazute in Autorizatia Integrata de Mediu nr. 1 / 24.08.2015, rev. 05.03.2020, respectiv Ordin 756/97 pentru aprobarea Reglementarii privind evaluarea poluarii mediului.

Intocmit,
Micu Andreea
Chifor Tincuta

Micu Andreea
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Centralizator Ape subterane 2021

Loc de prelevare/zona	Indicatori de calitate	U.M.	VLE conform AIM/nr. 1 din 24.08.2015, rev.2/16.02.2017 (mg/l)	Trim. I	Trim. II	Trim. III	Trim. IV	Incertitudine %
Departament Aglomerare si Materii prime								
F 16	pH		7.7	7.21	7.45	7.51	7.49	-
	SS	mg/l	15	11	13.00	12.00	11.00	±0.05
	Reziduu fix	mg/l	350	259	278.00	281.00	274.12	±10
	CCO-Mn	mg/l	5.11	3.97	4.20	4.36	4.52	±0.7
	Sulfati	mg/l	240.1	180.2	166.24	170.11	181.24	±5.0
	Cloruri	mg/l	75.15	57.62	62.80	63.25	61.36	±5.0
	Amoniu	mg/l	0.122	0.110	0.097	0.099	0.090	±0.001
	Azotati	mg/l	38	26.87	30.24	30.49	31.11	±0.3
	Fe total	mg/l	0.02	0.015	0.018	0.017	0.015	±0.05
	Calciu	mg/l	54.1	46.31	48.54	46.97	47.21	±2.2
	Magneziu	mg/l	24.15	20.11	19.52	18.67	19.10	±2.0
	Compusi fenolici	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	±0.005
	Clanuri	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	±0.0006
	Crom	mg/l	0.056	0.039	0.042	0.040	0.041	±0.05
	Mangan	mg/l	0.028	0.025	0.022	0.023	0.021	±0.005
	Plumb	mg/l	0.009	0.006	0.004	0.003	0.004	±0.008
	Zinc	mg/l	0.02	0.017	0.014	0.015	0.016	±0.016
F 38	pH		7.84	7.49	7.22	7.38	7.4	-
	SS	mg/l	15	13	11.00	11.00	12.00	±0.05
	Reziduu fix	mg/l	599	483	504.00	418.00	428.73	±10
	CCO-Mn	mg/l	101.3	91.12	78.66	77.51	78.05	±0.7
	Sulfati	mg/l	243	210.3	198.62	184.00	190.32	±5.0
	Cloruri	mg/l	72.16	68.50	65.24	62.84	65.33	±5.0
	Amoniu	mg/l	0.007	0.004	0.005	0.004	0.005	±0.001
	Azotati	mg/l	18.9	17.15	16.48	16.88	16.28	±0.3
	Fe total	mg/l	0.006	0.003	0.005	0.004	0.003	±0.05
	Calciu	mg/l	51.11	41.61	44.00	45.36	43.87	±2.2
	Magneziu	mg/l	67.13	56.33	52.00	54.71	55.12	±2.0
	Compusi fenolici	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	±0.005
	Clanuri	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	±0.0006
	Crom	mg/l	0.044	0.038	0.035	0.037	0.039	±0.05
	Mangan	mg/l	0.03	0.024	0.027	0.025	0.026	±0.005
	Plumb	mg/l	0.008	0.005	0.004	0.005	0.004	±0.008
	Zinc	mg/l	0.025	0.018	0.021	0.020	0.021	±0.016
Departament Furnale								
F 26	pH		8.22	7.51	7.77	7.58	7.74	-
	SS	mg/l	78	64	68.00	66.00	70.00	±0.05
	Reziduu fix	mg/l	41	33	34.00	36.00	35.00	±10
	CCO-Mn	mg/l	22	17.25	18.00	19.11	18.69	±0.7
	Sulfati	mg/l	100	87.6	75.26	77.28	76.87	±5.0
	Cloruri	mg/l	40	32.68	30.56	31.12	32.05	±5.0
	Amoniu	mg/l	0.63	0.459	0.542	0.561	0.570	±0.001
	Azotati	mg/l	6.3	5.1	4.40	4.63	4.99	±0.3
	Fe total	mg/l	1	0.638	0.556	0.578	0.601	±0.05
	Calciu	mg/l	83	69.74	71.00	71.56	72.43	±2.2
	Magneziu	mg/l	35	27.55	30.44	31.25	32.18	±2.0
	Compusi fenolici	mg/l	0.002	0.001	0.001	0.001	0.001	±0.005
	Clanuri	mg/l	0.014	0.011	0.012	0.011	0.012	±0.0006
	Crom	mg/l	0.03	0.024*	0.024*	0.024*	0.024*	±0.05
	Mangan	mg/l	0.015	0.011	0.013	0.012	0.013	±0.005
	Plumb	mg/l	0.012	0.009	0.010	0.009	0.008	±0.008
	Zinc	mg/l	0.02	0.018	0.016	0.015	0.016	±0.016
F 53	pH		7.86	7.63	7.25	7.33	7.56	-
	SS	mg/l	50	43	48.00	46.00	48.00	±0.05
	Reziduu fix	mg/l	369	311	306.00	311.00	321.00	±10
	CCO-Mn	mg/l	28.8	26.20	24.68	25.16	26.04	±0.7
	Sulfati	mg/l	96.36	81.4	86.42	80.33	85.12	±5.0
	Cloruri	mg/l	33	26.57	23.84	22.75	23.69	±5.0
	Amoniu	mg/l	0.36	0.290	0.310	0.319	0.307	±0.001
	Azotati	mg/l	3.69	3.14	2.88	3.01	3.31	±0.3
	Fe total	mg/l	1	0.649	0.552	0.579	0.581	±0.05
	Calciu	mg/l	63.25	54.21	51.66	52.34	53.47	±2.2
	Magneziu	mg/l	35	25.68	28.00	29.14	30.01	±2.0
	Compusi fenolici	mg/l	0.004	0.001	0.002	0.002	0.001	±0.005
	Clanuri	mg/l	0.014	0.012	0.010	0.011	0.012	±0.0006
	Crom	mg/l	0.03	0.024*	0.024*	0.024*	0.024*	±0.05
	Mangan	mg/l	0.01	0.006	0.008	0.007	0.008	±0.005
	Plumb	mg/l	0.012	0.007	0.010	0.009	0.010	±0.008
	Zinc	mg/l	0.03	0.026	0.022	0.026	0.028	±0.016

Loc de prelevare/zona	Indicatori de calitate	U.M.	VLE conform AIM/nr. 1 din 24.08.2015, rev.2/16.02.2017 (mg/l)	Trim. I	Trim. II	Trim. III	Trim. IV	Incertitudine %
F 36	pH		7.41	7.28	7.30	7.19	7.28	-
	SS	mg/l	76	67	71.00	73.00	74.00	±0.05
	Reziduu fix	mg/l	422	359	370.00	369.00	375.00	±10
	CCO-Mn	mg/l	7.2	6.28	5.43	6.11	6.38	±0.7
	Sulfati	mg/l	100.3	81.2	84.52	87.21	86.94	±5.0
	Cloruri	mg/l	41.6	33.68	30.57	31.22	32.41	±5.0
	Amoniu	mg/l	0.471	0.411	0.375	0.367	0.375	±0.001
	Azotati	mg/l	3.55	2.89	3.42	3.16	3.22	±0.3
	Fe total	mg/l	1.15	0.769	0.862	0.952	0.973	±0.05
	Calciu	mg/l	72	65.10	67.00	68.16	68.91	±2.2
	Magneziu	mg/l	24	17.58	20.02	21.23	22.10	±2.0
	Compusi fenolici	mg/l	0.01	0.007	0.005	0.005	0.007	±0.005
	Cianuri	mg/l	0.012	0.008	0.007	0.008	0.009	±0.0006
	Crom	mg/l	0.03	0.024*	0.024*	0.024*	0.024*	±0.05
	Mangan	mg/l	0.013	0.010	0.011	0.010	0.011	±0.005
	Plumb	mg/l	0.04	0.036	0.031	0.033	0.034	±0.008
	Zinc	mg/l	0.075	0.062	0.059	0.060	0.066	±0.016

Zona DU

F12	pH		7	6.6	6.80	6.78	6.89	-
	SS	mg/l	198	158	177.00	168.00	157.00	±0.05
	Reziduu fix	mg/l	380	321.1	333.00	297.00	284.16	±10
	CCO-Mn	mg/l	11	9.00	8.60	8.48	8.56	±0.7
	Calciu	mg/l	47	38.25	40.22	39.78	37.33	±2.2
	Magneziu	mg/l	65	51.47	48.64	46.97	45.28	±2
	Amoniu	mg/l	0.25	0.162	0.192	0.184	0.178	±0.001
	Sulfati	mg/l	40	31.12	34.00	36.11	34.61	±5
	Cloruri	mg/l	78	60.03	56.28	57.69	58.67	±5
	Azotati	mg/l	1.5	1.20	1.36	1.40	1.42	±0.3
	Compusi fenolici	mg/l	0.001	0.0002	0.0007	0.0005	0.0004	±0.005
	Cianuri	mg/l	0.001	0.0003	0.0005	0.0003	0.0002	±0.0006
	Fier	mg/l	0.960	0.668	0.788	0.699	0.641	±0.05
	Zinc	mg/l	0.012	0.002	0.010	0.009	0.007	±0.016
	Mangan	mg/l	0.04	0.022	0.030	0.033	0.035	±0.005
	Plumb	mg/l	0.019	0.011	0.016	0.015	0.016	±0.008

Produse Auxiliare

P68	pH		8.5	7.33	7.70	7.92	7.78	-
	SS	mg/l	250	124	136.00	162.00	157.00	±0.05
	CCO-Mn	mg/l	12	10.11	11.00	10.40	10.69	±0.7
	Reziduu filtrabil	mg/l	850	479	562.00	633.00	597.00	±10
	Cloruri	mg/l	65	46.38	50.00	52.00	51.39	±5
	Sulfati	mg/l	325	274	225.00	245.00	250.00	±5
	Azotati	mg/l	2.3	1.61	2.00	1.84	1.78	±0.3
	Amoniu	mg/l	0.384	0.332	0.346	0.318	0.336	±0.001
	Azotiti	mg/l	0.025	0.015	0.021	0.018	0.019	±0.016
	Fier total	mg/l	3.5	2.37	2.80	3.04	3.28	±0.05
	Calciu	mg/l	42	33.46	37.44	35.00	36.27	±2.2
	Magneziu	mg/l	30	24.28	26.64	24.62	25.41	±2
	Compusi fenolici	mg/l	0	0	0	0	0	±0.005
	Cianuri	mg/l	0.011	0.004	0.008	0.010	0.009	±0.0006
	Mangan	mg/l	0.035	0.025	0.030	0.032	0.031	±0.005
	Zinc	mg/l	0.08	0.051	0.065	0.069	0.070	±0.016
	Crom	mg/l	0.06	0.049	0.052	0.050	0.052	±0.05
Plumb	mg/l	0.08	0.062	0.066	0.068	0.066	±0.008	

Zona OLD 1

F3	pH		7.9	7.42	7.56	7.63	7.52	-
	SS	mg/l	225	151	168.00	177.00	167.00	±0.05
	CCO Mn	mg/l	28	21.1	20.20	22.00	24.06	±0.7
	Reziduu filtrabil	mg/l	578	467	488.00	501.00	487.00	±10
	Cloruri	mg/l	42	34.26	35.62	33.65	36.00	±5
	Sulfati	mg/l	155	137	129.00	131.24	124.60	±5
	Azotati	mg/l	3.5	2.62	3.00	2.86	3.00	±0.3
	Amoniu	mg/l	0.42	0.310	0.348	0.375	0.336	±0.001
	Fier total	mg/l	7.5	6.23	5.56	6.02	5.42	±0.05
	Calciu	mg/l	35.7	26.38	30.00	29.56	31.64	±2.2
	Magneziu	mg/l	27.4	22.75	24.00	22.87	24.00	±2
	Compusi fenolici	mg/l	0.03	0.024	0.021	0.023	0.025	±0.005
	Cianuri	mg/l	0.002	0.001	0.001	0.001	0.001	±0.0006
	Crom total	mg/l	0.03	0.024*	0.024*	0.024*	0.024*	±0.05
	Mangan	mg/l	0.08	0.052	0.065	0.068	0.072	±0.005
	Zinc	mg/l	0.038	0.025	0.024	0.027	0.031	±0.016
	Plumb	mg/l	0.022	0.018	0.020	0.021	0.020	±0.008

Loc de prelevare/zona	Indicatori de calitate	U.M.	VLE conform AIM/nr. 1 din 24.08.2015, rev.2/16.02.2017 (mg/l)	Trim. I	Trim. II	Trim. III	Trim. IV	Incertitudine %
F 14	pH		8.5	8.27	8.36	8.28	8.31	-
	SS	mg/l	250	175	187.00	201.00	222.00	±0.05
	CCO Mn	mg/l	35	29.6	27.00	29.00	32.00	±0.7
	Reziduu filtrabil	mg/l	850	657	706.00	735.00	726.00	±10
	Cloruri	mg/l	45	38.74	41.00	43.00	41.68	±5
	Sulfati	mg/l	250	190	174.00	189.00	168.40	±5
	Azotati	mg/l	2.5	2.13	2.00	1.88	1.74	±0.3
	Amoniu	mg/l	0.5	0.381	0.422	0.402	0.424	±0.001
	Fier total	mg/l	6.5	5.84	6.00	5.26	5.70	±0.05
	Calciu	mg/l	50	35.68	38.00	41.00	45.00	±2.2
	Magneziu	mg/l	45	33.71	31.00	29.62	36.00	±2
	Compusi fenolici	mg/l	0.022	0.018	0.016	0.019	0.017	±0.005
	Cianuri	mg/l	0.002	0.0017	0.0015	0.0017	0.0015	±0.0006
	Crom total	mg/l	0.03	0.024*	0.024*	0.024*	0.024*	±0.05
	Mangan	mg/l	0.185	0.170	0.158	0.148	0.155	±0.005
	Zinc	mg/l	0.035	0.027	0.030	0.028	0.026	±0.016
Plumb	mg/l	0.02	0.015	0.018	0.016	0.018	±0.008	

Zona LTG 1

F 88	pH		7.85	7.63	7.44	7.51	7.45	-
	SS	mg/l	36.4	32.0	29.36	30.24	31.00	±0.05
	Reziduu fix	mg/l	350	240	225.00	229.57	230.00	±10
	CCO-Mn	mg/l	12	9.75	10.20	10.42	10.56	±0.7
	Cloruri	mg/l	36.5	28.36	25.00	26.13	27.41	±5
	Sulfati	mg/l	128	100.0	89.64	90.57	90.98	±5
	Azotati	mg/l	2.8	2.41	2.12	2.36	2.51	±0.3
	Amoniu	mg/l	0.584	0.496	0.442	0.467	0.477	±0.001
	Fier total	mg/l	0.52	0.478	0.395	0.401	0.426	±0.05
	Plumb	mg/l	0.1379	0.1224	0.1106	0.1247	0.1257	±0.008
	Crom	mg/l	0.0232	<0.0232	<0.0232	<0.0232	<0.0232	±0.05
	Nichel	mg/l	0.0132	<0.0132	<0.0132	<0.0132	<0.0132	±0.01
	Mangan	mg/l	0.2167	0.1897	0.1685	0.1724	0.1831	±0.005
	Zinc	mg/l	0.1229	0.1194	0.1022	0.1141	0.1162	±0.016
	Calciu	mg/l	52.4	43.65	45.00	46.05	47.50	±2.2
	Magneziu	mg/l	31.79	27.13	24.66	25.36	26.17	±2
Compusi fenolici	mg/l	0.036	0.027	0.024	0.025	0.024	±0.005	
Cianuri	mg/l	0.014	0.012	0.010	0.011	0.012	±0.0006	
F 6	pH		7.15	6.95	7.00	7.06	7.00	-
	SS	mg/l	22.5	21.0	19.00	20.31	20.46	±0.05
	Reziduu fix	mg/l	340	300	275.00	281.12	290.00	±10
	CCO-Mn	mg/l	12	11.01	10.40	10.38	11.00	±0.7
	Cloruri	mg/l	48	46.12	42.76	41.67	42.36	±5
	Sulfati	mg/l	34	33.00	31.24	30.66	29.87	±5
	Azotati	mg/l	6.2	5.70	5.20	5.17	5.24	±0.3
	Amoniu	mg/l	0.384	0.355	0.322	0.307	0.333	±0.001
	Fier total	mg/l	1.36	1.18	1.04	1.11	1.20	±0.05
	Plumb	mg/l	0.009	0.006	0.004	0.005	0.006	±0.008
	Crom	mg/l	0.052	0.027	0.030	0.028	0.026	±0.05
	Nichel	mg/l	0.0096	0.0060	0.0710	0.0061	0.0070	±0.01
	Mangan	mg/l	0.046	0.035	0.039	0.037	0.038	±0.005
	Zinc	mg/l	0.0018	0.0016	0.0013	0.0014	0.0015	±0.016
	Calciu	mg/l	58	47.69	43.28	45.28	46.82	±2.2
	Magneziu	mg/l	15.2	10.54	12.36	11.69	12.00	±2
Compusi fenolici	mg/l	0	0	0	0	0	±0.005	
Cianuri	mg/l	0.012	0.007	0.008	0.007	0.008	±0.0006	

Zona LTG 2

F 5	pH		8.4	8.22	8.31	8.27	8.31	-
	SS	mg/l	146	130	123.00	111.00	120.00	±0.05
	Reziduu fix	mg/l	378	324	311.00	297.00	301.00	±10
	CCO-Mn	mg/l	12	10.1	9.40	9.15	10.02	±0.7
	Cloruri	mg/l	88.2	63.47	59.68	60.11	63.58	±5
	Sulfati	mg/l	44.95	38.11	35.24	34.37	35.14	±5
	Azotati	mg/l	2.23	1.68	1.80	1.72	1.81	±0.3
	Amoniu	mg/l	0.48	0.37	0.322	0.326	0.333	±0.001
	Fe total	mg/l	1.24	1.12	1.00	1.11	1.17	±0.05
	Plumb	mg/l	0.008	0.006	0.004	0.003	0.004	±0.008
	Mangan	mg/l	0.289	0.261	0.224	0.231	0.251	±0.005
	Zinc	mg/l	0.115	0.098	0.089	0.090	0.094	±0.016
	Cadmium	µg/l	65	55.0	51.00	52.10	53.63	±0.005
	Crom	mg/l	0.035	0.025	0.031	0.024*	0.024*	±0.05
	Calciu	mg/l	62.04	54.69	51.84	52.06	52.87	±2.2
	Magneziu	mg/l	48.9	43.75	40.00	42.31	43.18	±2
Compusi fenolici	mg/l	0.025	0.021	0.020	0.023	0.024	±0.005	
Cianuri	mg/l	0.0025	0.0020	0.0018	0.0017	0.0018	±0.0006	

Loc de prelevare/zona	Indicatori de calitate	U.M.	VLE conform AIM/nr. 1 din 24.08.2015, rev.2/16.02.2017 (mg/l)	Trim. I	Trim. II	Trim. III	Trim. IV	Incertitudine %
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Zona LBC

F 720	pH		7.48	7.22	7.15	7.21	7.32	-
	Suspensii	mg/l	43	40	32.00	33.00	35.00	±0.05
	Reziduu fix	mg/l	712	589	555.00	527.14	547.00	±10
	CCOMn	mg/l	12	10.30	9.80	9.48	9.62	±0.7
	Sulfati	mg/l	52	49.60	45.26	46.32	45.36	±5
	Cloruri	mg/l	56	48.23	41.18	42.68	43.11	±5
	Amoniu	mg/l	2.412	1.940	1.52	1.517	1.567	±0.001
	Azotati	mg/l	6.5	4.81	4.33	4.48	4.58	±0.3
	Fenoli	mg/l	0.0056	0.0042	0.0035	0.0040	0.0043	±0.005
	Fier total	mg/l	1.6	1.38	1.12	1.15	1.27	±0.05
	Calciu	mg/l	128	105.0	94.22	100.02	101.25	±2.2
	Magneziu	mg/l	34.05	28.69	24.18	25.63	26.38	±2
	Crom	mg/l	0.068	0.054	0.049	0.050	0.060	±0.05
	Nichel	mg/l	0.0286	0.0250	0.0220	0.0238	0.0247	±0.01
	Mangan	mg/l	0.354	0.327	0.293	0.301	0.329	±0.005
	Clanuri	mg/l	0	0	0	0	0	±0.0006
	Zinc	mg/l	0.0198	0.0176	0.0174	0.0164	0.0170	±0.016
	Plumb	mg/l	0.0466	0.0439	0.0410	0.0428	0.0441	±0.008

Zona LBR,OC-LINE

F 71	pH		8.1	7.78	7.62	7.74	7.82	-
	Suspensii	mg/l	88	72	68.00	74.00	75.00	±0.05
	Reziduu fix	mg/l	405	355	325.00	309.00	310.00	±10
	CCOMn	mg/l	12.7	9.78	10.40	11.00	10.25	±0.7
	Sulfati	mg/l	185	147.0	133.26	146.00	150.23	±5
	Cloruri	mg/l	16.5	13.27	14.24	13.77	14.28	±5
	Amoniu	mg/l	0.34	0.250	0.268	0.284	0.291	±0.001
	Azotati	mg/l	4.2	3.60	3.00	3.60	3.71	±0.3
	Fenoli	mg/l	0.044	0.022	0.026	0.030	0.032	±0.005
	Clanuri	mg/l	0.001	0.0003	0.0007	0.0008	0.0006	±0.0006
	Fier total	mg/l	5.85	4.61	3.64	4.15	4.68	±0.05
	Calciu	mg/l	43.4	35.69	33.84	35.22	36.41	±2.2
	Magneziu	mg/l	18.7	14.88	16.00	17.42	16.75	±2
	Mangan	mg/l	0.05	0.034	0.039	0.041	0.039	±0.005
	Crom	mg/l	0.03	0.024*	0.024*	0.024*	0.024*	±0.05
	Zinc	mg/l	0.125	0.082	0.090	0.095	0.087	±0.016
	Plumb	mg/l	0.005	0.001	0.003	0.002	0.003	±0.008

Zona Zincare

F 745	pH		7.22	7.06	7.10	7.20	7.15	-
	Suspensii	mg/l	49.9	43.11	40.00	43.00	42.00	±0.05
	Reziduu fix	mg/l	411	374	352.00	334.00	340.00	±10
	CCOMn	mg/l	2.73	2.26	2.40	2.15	2.20	±0.7
	Sulfati	mg/l	331.1	271.1	236.00	256.00	264.12	±5
	Cloruri	mg/l	53.6	50.23	48.62	45.26	46.02	±5
	Amoniu	mg/l	0.35	0.28	0.310	0.284	0.291	±0.001
	Azotati	mg/l	2.25	1.68	2.00	1.85	1.91	±0.3
	Azotiti	mg/l	0.042	0.032	0.038	0.034	0.036	±0.016
	Clanuri	mg/l	0.002	0.0016	0.0014	0.0016	0.0017	±0.0006
	Fier total	mg/l	2.48	2.20	2.30	2.16	2.22	±0.05
	Calciu	mg/l	99.8	74.56	77.00	80.26	85.14	±2.2
	Magneziu	mg/l	25.9	21.36	22.64	21.88	20.36	±2
	Mangan	mg/l	0.087	0.068	0.071	0.075	0.068	±0.005
	Zinc	mg/l	0.46	0.37	0.340	0.372	0.354	±0.016
	Plumb	mg/l	0.041	0.036	0.032	0.037	0.038	±0.008

Zona DPS

F 768	pH		8.2	7.75	7.54	7.71	7.82	-
	SS	mg/l	364	330	318.00	296.00	300.00	±0.05
	Reziduu fix	mg/l	384	349	322.00	309.00	312.00	±10
	CCO-Mn	mg/l	1.76	1.49	1.55	1.42	1.51	±0.7
	Sulfati	mg/l	51.03	47.65	44.21	43.29	46.22	±5.0
	Cloruri	mg/l	47.5	42.36	40.24	39.56	38.95	±5.0
	Amoniu	mg/l	0.6	0.47	0.530	0.555	0.563	±0.001
	Azotati	mg/l	0.2	0.16	0.120	0.127	0.131	±0.3
	Fe total	mg/l	0.23	0.177	0.201	0.211	0.207	±0.05
	Calciu	mg/l	31.26	25.9	27.45	26.39	25.67	±2.2
	Magneziu	mg/l	40.94	33.98	30.28	31.58	32.91	±2.0
	Compusi fenolici	mg/l	0.03	0.024	0.021	0.022	0.023	±0.005
	Clanuri	mg/l	0.003	0.0011	0.002	0.002	0.002	±0.0006
	Crom	mg/l	0.03	0.024*	0.024*	0.024*	0.024*	±0.05
	Mangan	mg/l	0.45	0.38	0.330	0.328	0.342	±0.005
	Plumb	mg/l	0.01	0.006	0.004	0.007	0.008	±0.008
	Zinc	mg/l	0.087	0.055	0.062	0.070	0.074	±0.016

Loc de prelevare/zona	Indicatori de calitate	U.M.	VLE conform AIM/nr. 1 din 24.08.2015, rev.2/16.02.2017 (mg/l)	Trim. I	Trim. II	Trim. III	Trim. IV	Incertitudine %
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Departament DPDES

F 52	pH		7.58	7.31	7.44	7.36	7.40	-
	SS	mg/l	12	9.75	11.00	10.00	11.00	± 0.05
	Reziduu fix	mg/l	204	157.0	175.00	169.00	170.00	± 10
	CCO-Mn	mg/l	16	14.11	12.84	11.43	11.68	± 0.7
	Sulfati	mg/l	59	51.2	47.20	45.26	46.39	± 5.0
	Cloruri	mg/l	30	23.60	25.00	24.12	25.11	± 5.0
	Amoniu	mg/l	0.22	0.17	0.190	0.189	0.196	± 0.001
	Azotati	mg/l	2.8	1.79	2.20	2.16	2.20	± 0.3
	Fe total	mg/l	0.5	0.35	0.401	0.411	0.438	± 0.05
	Calciu	mg/l	32.9	27.10	25.36	26.13	25.39	± 2.2
	Magneziu	mg/l	18.2	15.20	16.88	15.78	15.99	± 2.0
	Compusi fenolici	mg/l	0.006	0.002	0.004	0.005	0.004	± 0.005
	Clanuri	mg/l	0.006	0.003	0.003	0.004	0.005	± 0.0006
	Nichel	mg/l	0.02	0.015*	0.015*	0.015*	0.015*	± 0.01
	Mangan	mg/l	0.046	0.038	0.042	0.040	0.038	± 0.005
	Plumb	mg/l	0.041	0.037	0.039	0.037	0.037	± 0.008
	Zinc	mg/l	0.02	0.015	0.017	0.018	0.016	± 0.016
	F 48	pH		7	6.71	6.90	6.89	6.74
SS		mg/l	16	12.11	14.00	14.00	15.00	± 0.05
Reziduu fix		mg/l	405	312.1	345.00	367.00	370.00	± 10
CCO-Mn		mg/l	6.2	4.89	5.56	5.38	5.52	± 0.7
Sulfati		mg/l	52	45.1	48.26	44.36	43.61	± 5.0
Cloruri		mg/l	36	28.62	27.22	28.56	29.36	± 5.0
Amoniu		mg/l	0.5	0.35	0.403	0.417	0.436	± 0.001
Azotati		mg/l	2.78	2.22	2.40	2.39	2.50	± 0.3
Fe total		mg/l	0.7	0.38	0.626	0.588	0.597	± 0.05
Calciu		mg/l	30.6	26.20	23.88	24.31	25.81	± 2.2
Magneziu		mg/l	18.9	13.64	16.20	15.87	16.35	± 2.0
Compusi fenolici		mg/l	0.002	0.0016	0.0014	0.0014	0.0015	± 0.005
Clanuri		mg/l	0.0009	0.0006	0.0008	0.0007	0.0006	± 0.0006
Nichel		mg/l	0.02	0.015*	0.015*	0.015*	0.015*	± 0.01
Mangan		mg/l	0.08	0.056	0.065	0.057	0.060	± 0.005
Plumb		mg/l	0.002	0.0012	0.0015	0.0014	0.0015	± 0.008
Zinc		mg/l	0.084	0.071	0.062	0.055	0.060	± 0.016

* limita de cuantificare

Intocmit,
Clobotaru Daniela
Sava Simona

Sef Serv. Reglementare si Monitorizare,
Cristina Nastase

**Monitorizarea factorilor de mediu
pentru depozitul de deseuri
industriale nepericuloase**

“Halda de zgura”

2021

Monitorizare lunara Balta Malina

Nr. crt.	Indicatori de calitate	U.M.	Metoda de analiza folosita	Loc de prelevare												Incertitudine %
				Balta Malina												
				ianuarie	februarie	martie	aprilie	mai	iunie	iulie	august	septembrie	octombrie	noiembrie	decembrie	
1	pH	unit pH	STAS 7184/13-88	7.8	8.10	7.96	7.88	8.00	7.82	7.94	7.52	7.88	7.49	7.66	7.56	-
2	Duritate	dg	STAS 3026-76	15.3	14.90	15.37	14.84	12.80	13.40	13.25	13.26	12.88	11.50	11.17	11.35	-
3	Suspensii	mg/l	Metoda 8006 (HACH)	26.0	30.00	26.00	28.50	28.00	31.50	30.60	33.80	35.00	31.25	27.50	31.00	±0.05
4	CCOCr	mg/l	STAS 6060-96	24.0	22.10	21.89	23.54	25.59	29.00	27.20	28.20	27.75	25.00	31.00	28.00	±0.7
5	CCOMn	mg/l	STAS 6060 - 96	20.8	21.00	21.75	21.32	23.00	24.60	19.84	19.64	19.60	20.40	19.80	20.20	±0.7
6	Reziduu filtrabil	mg/l	STAS 9187 - 84	408.0	344.0	369.0	400.00	376.50	442.00	388.80	430.80	425.50	556.0	612.00	541.00	±10
7	Cloruri	mg/l	STAS 8663 - 70	140.0	128.30	121.90	129.50	135.50	150.80	152.45	163.21	158.78	146.00	150.75	142.64	±5.0
8	Sulfati	mg/l	Chimia Sanitara a Mediului	51.0	51.40	49.27	52.25	51.75	62.31	54.86	61.60	54.97	60.00	72.00	67.00	±5.0
9	Azotati	mg/l	SR ISO 7890 - 3	5.1	5.05	5.20	5.51	5.22	5.18	4.77	5.10	5.14	5.80	6.10	5.50	±0.3
10	Amoniu	mg/l	STAS 8683 - 70	1.013	1.04	1.07	1.25	1.23	1.39	1.41	1.39	1.32	1.21	1.260	1.240	±0.001
11	Fier total	mg/l	SR ISO 6332 - 96	0.532	0.520	0.499	0.539	0.624	0.66	0.607	0.690	0.729	0.752	0.775	0.797	±0.05
12	Calciu	mg/l	STAS 3662 - 62	57.79	55.37	52.87	54.76	52.71	55.53	52.13	51.32	51.70	60.22	64.58	61.42	±2.2
13	Magneziu	mg/l	STAS 3026 - 76	16.93	18.05	18.06	17.81	18.68	19.31	19.58	19.95	20.06	21.84	20.02	20.37	±2.0
14	Compusi fenolici	mg/l	Metoda LCK 345 (HACH)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	±0.0005
15	Cianuri	mg/l	Metoda LCK 315 (HACH)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	±0.0006
16	Crom total	mg/l	Metoda LCK 313 (HACH)	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	±0.05
17	Mangan	mg/l	Metoda 8149 (HACH)	0.087	0.082	0.064	0.076	0.081	0.079	0.062	0.061	0.056	0.048	0.054	0.050	±0.005
18	Nichel	mg/l	Metoda 8037 (HACH)	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	±0.01
19	Zinc	mg/l	Metoda 8009 (HACH)	0.014	0.013	0.012	0.013	0.012	0.013	0.013	0.012	0.013	0.016	0.016	0.015	±0.016
20	Plumb	mg/l	Metoda LCK 306 (HACH)	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	±0.008

* limita de cuantificare

Intocmit,
Sava Simona

Sef Serviciu Reglementare si Monitorizare,

Ilz. Nastase Cristina



Monitorizare lunara Siret-Amonte

Nr.crt.	Indicatori de calitate	U.M.	Metoda de analiza	ianuarie	februarie	martie	aprilie	mai	iunie	iulie	august	septembrie	octombrie	noiembrie	decembrie	Incertitudine %
1	pH	unit pH	STAS 7184/13-88	8.46	8.36	8.17	8.20	8.26	8.38	8.11	7.97	7.95	8.25	8.15	8.20	-
2	Duritate	dt°	STAS 3026-76	14.9	15.1	16.2	17.32	20.11	19.87	20.15	21.2	20.45	18.52	17.68	17.71	-
3	Suspensii	mg/l	Metoda 8006 (HACH)	56.0	58.0	54.00	56.00	50	51.00	54.00	55.00	58.00	52.00	49.00	47.00	±0.05
4	CCOCr	mg/l	STAS 6060 - 96	42.00	44.00	45.00	44.00	40	36.00	39.00	40.00	37.00	33.00	30.00	29.00	±0.7
5	CCOMn	mg/l	STAS 6060 - 96	23.20	24.10	22.48	21.60	20.20	22.00	22.10	23.80	22.80	21.20	22.90	21.70	±0.7
6	Reziduu filtrabil	mg/l	STAS 9187 - 84	56.0	56.20	57.0	58.20	569.10	557.00	561.00	570.00	561.00	517.00	500.00	475.00	±10
7	Cloruri	mg/l	STAS 8663 - 70	52.00	54.00	55.12	56.27	53.64	52.17	53.05	54.26	55.26	50.68	49.12	49.42	±5.0
8	Sulfati	mg/l	Chimia Sanitara a Medului	63.00	65.10	63.58	62.58	59.26	58.63	57.24	60.11	58.67	53.26	51.34	50.25	±5.0
9	Azotati	mg/l	SR ISO 7890 - 3	6.30	6.20	6.31	6.27	6.14	5.75	5.67	5.73	5.61	4.52	5.16	4.90	±0.3
10	Amoniu	mg/l	STAS 8683 - 70	0.311	0.335	0.35	0.360	0.349	0.347	0.355	0.360	0.368	0.296	0.275	0.266	±0.001
11	Fier total	mg/l	SR ISO 6332 - 96	1.750	1.680	1.71	1.58	1.53	1.58	1.60	1.64	1.59	1.42	1.24	1.20	±0.05
12	Calciu	mg/l	STAS 3662 - 62	44.00	43.11	45.62	47.21	48.26	49.08	50.11	49.26	50.23	48.22	42.66	41.35	±2.2
13	Magneziu	mg/l	STAS 3026 - 76	22.00	21.13	20.67	19.36	20.34	20.16	20.64	19.87	18.99	17.46	18.34	20.00	±2.0
14	Compusi fenolici	mg/l	STAS 7167 - 92	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	±0.005
15	Cianuri	mg/l	SR ISO 6703/1 - 98	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	±0.0006
16	Crom total	mg/l	Metoda 8023 (HACH)	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	±0.05
17	Mangan	mg/l	Metoda 8149 (HACH)	0.056	0.050	0.052	0.050	0.052	0.053	0.049	0.047	0.042	0.039	0.036	0.030	±0.005
18	Nichel	mg/l	Metoda 8037 (HACH)	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	±0.01
19	Zinc	mg/l	Metoda 8009 (HACH)	0.022	0.023	0.025	0.023	0.020	0.022	0.020	0.019	0.018	0.016	0.013	0.011	±0.016
20	Plumb	mg/l	Metoda 8317 (HACH)	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	±0.008

Nota: 1. Monitorizarea indicatorilor de calitate apa cf. obligatiilor Autorizatiei Integrate de Mediu.

* limita de cuantificare

Intocmit,
Sava Simona

Sef Serviciu Reglementare si Monitorizare,

fiz. Naftalea Cristina



Monitorizare lunara Siret Amonte

Nr.crt.	Indicatori de calitate	U.M.	Metoda de analiza	ianuarie	februarie	martie	aprilie	mai	iunie	iulie	august	septembrie	octombrie	noiembrie	decembrie	Incertitudine %
1	pH	unit pH	STAS 7184/13-88	8.46	8.36	8.17	8.20	8.26	8.38	8.11	7.97	7.95	8.25	8.15	8.20	-
2	Duritate	dt°	STAS 3026-76	14.9	15.1	16.2	17.32	20.11	19.87	20.15	21.2	20.45	18.52	17.68	17.71	-
3	Suspensii	mg/l	Metoda 8006 (HACH)	56.0	58.0	54.00	56.00	50	51.00	54.00	55.00	58.00	52.00	49.00	47.00	±0.05
4	CCOCr	mg/l	STAS 6060 - 96	42.00	44.00	45.00	44.00	40	36.00	39.00	40.00	37.00	33.00	30.00	29.00	±0.7
5	CCOMn	mg/l	STAS 6060 - 96	23.20	24.10	22.48	21.60	20.20	22.00	22.10	23.80	22.80	21.20	22.90	21.70	±0.7
6	Reziduu filtrabili	mg/l	STAS 9187 - 84	560	562.0	577.0	582.0	569.10	557.00	561.00	570.00	561.00	517.00	500.00	475.00	±10
7	Cloruri	mg/l	STAS 8663 - 70	52.00	54.00	55.12	56.27	53.64	52.17	53.05	54.26	55.26	50.68	49.12	49.42	±5.0
8	Sulfati	mg/l	Chimia Sanitara a Mediului	63.00	65.10	63.58	62.58	59.26	58.63	57.24	60.11	58.67	53.26	51.34	50.25	±5.0
9	Azotati	mg/l	SR ISO 7890 - 3	6.30	6.20	6.31	6.27	6.14	5.75	5.67	5.73	5.61	4.52	5.16	4.90	±0.3
10	Amoniu	mg/l	STAS 8663 - 70	0.311	0.335	0.35	0.360	0.349	0.347	0.355	0.360	0.368	0.296	0.275	0.266	±0.001
11	Fier total	mg/l	SR ISO 6332 - 96	1.750	1.680	1.71	1.58	1.53	1.58	1.60	1.64	1.59	1.42	1.24	1.20	±0.05
12	Calciu	mg/l	STAS 3662 - 62	44.00	43.11	45.62	47.21	48.26	49.08	50.11	49.26	50.23	48.22	42.66	41.35	±2.2
13	Magneziu	mg/l	STAS 3026 - 76	22.00	21.13	20.67	19.36	20.34	20.16	20.64	19.87	18.99	17.46	18.34	20.00	±2.0
14	Compusi fenolici	mg/l	STAS 7167 - 92	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	±0.005
15	Cianuri	mg/l	SR ISO 6703/1 - 98	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	±0.0006
16	Crom total	mg/l	Metoda 8023 (HACH)	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	±0.005
17	Mangan	mg/l	Metoda 8149 (HACH)	0.056	0.050	0.052	0.050	0.052	0.053	0.049	0.047	0.042	0.039	0.036	0.030	±0.005
18	Nichel	mg/l	Metoda 8037 (HACH)	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	±0.01
19	Zinc	mg/l	Metoda 8009 (HACH)	0.022	0.023	0.025	0.023	0.020	0.022	0.020	0.019	0.018	0.016	0.013	0.011	±0.016
20	Piomb	mg/l	Metoda 8317 (HACH)	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	±0.008

Nota: 1.Monitorizarea indicatorilor de calitate apa cf. obligatiilor Autorizatiei Integrate de Mediu.

* limita de cuantificare

Intocmit,
Sava Simona

Sef Serviciu Reglementare si Monitorizare,

fiz. Nayasse Cristina



Centralizator : sol Haida de zgura
2021

Nr. crt.	Locul recoltării/perioada	Indicatori										
		pH	Cu mg/Kg	Pb mg/Kg	Zn mg/Kg	Cd mg/Kg	Ni mg/Kg	Mn mg/Kg	Cr mg/Kg	SO ₄ ²⁻ mg/Kg		
						Valoare masurata						
1	Zona est perimetru Haida de zgura- 0-5 cm suprafata	8.27	56.81	42.37	113.00	1.20	32.11	589.60	17.12	306.63		
	Zona est perimetru Haida de zgura-30-40 cm adancime	8.23	61.65	46.35	143.24	1.25	39.96	638.45	21.34	329.44		
2	Zona vest perimetru Haida de zgura-0-5 cm suprafata	8.17	51.90	44.04	122.43	1.08	40.83	609.97	20.84	334.67		
	Zona vest perimetru Haida de zgura, 30-40 cm adancime	8.22	51.23	48.98	99.66	1.27	41.92	580.12	23.16	373.03		
3	Zona nord perimetru Haida de zgura-0-5 cm suprafata	8.13	48.59	52.10	92.61	1.27	40.72	732.32	21.21	357.64		
	Zona nord perimetru Haida de zgura, 30-40 cm adancime	8.20	50.43	51.70	101.25	1.19	43.74	710.69	22.88	316.72		
4	Zona sud perimetru Haida de zgura-0-5 cm suprafata	8.19	61.16	42.31	119.49	1.21	47.07	716.80	21.34	318.36		
	Zona sud perimetru Haida de zgura, 30-40 cm adancime	8.20	52.68	50.72	126.72	1.17	48.25	648.17	22.04	313.92		
5	Zona est exterior Haida de zgura-0-5 cm suprafata	8.18	54.59	42.29	79.47	1.24	42.41	577.28	13.35	249.93		
	Zona est exterior Haida de zgura, 30-40 cm adancime	8.10	44.63	43.20	94.17	1.26	42.40	614.84	14.81	278.98		
6	Zona vest exterior Haida de zgura-0-5 cm suprafata	8.16	50.15	38.89	82.42	1.16	50.45	524.15	22.55	270.28		
	Zona vest exterior Haida de zgura, 30-40 cm adancime	8.18	49.85	40.93	92.42	1.17	43.35	602.61	24.57	330.35		
7	Zona nord exterior Haida de zgura-0-5 cm suprafata	8.25	45.95	42.13	89.92	1.28	46.18	566.90	23.82	272.47		
	Zona nord exterior Haida de zgura, 30-40 cm adancime	8.35	52.07	44.78	93.32	1.07	44.02	623.52	20.84	333.08		
8	Zona sud exterior Haida de zgura- 0-5 cm suprafata	8.09	56.36	50.42	112.41	1.18	41.57	643.40	17.66	311.42		
	Zona sud exterior Haida de zgura, 30-40 cm adancime	8.18	51.48	52.75	109.49	1.15	46.00	577.22	22.65	318.97		
	Incertitudine %	±2	± 2.02	± 3.7	± 3.8	±2.4	±4.4	± 2.15	±4.2	± 10		
	VLE conform Autorizatiei integrate de Mediu nr. 1 / 24.08.2015, rev. 05.03.2020	7.5-8.5	<250	<250	<700	5	<200	<2000	<300	<5000		

Observatii:

1. Frecventa de monitorizare pentru factorul de mediu sol: semestriala. Datele reprezinta monitorizarea realizata de Laboratorul de Mediu in cursul anului 2021 (media determinarilor semestriale). Se anexeaza rapoartele de incercare emise de Laboratorul de Mediu.
2. Analizand valorile rezultatelor obtinute, nu se inregistreaza depasiri ale valorilor limita prevazute in Autorizatia Integrata de Mediu nr. 1 / 24.08.2015, rev. 05.03.2020, respectiv Ordin 756/97, pentru aprobarea Reglementării privind evaluarea poluării mediului.

Intocmit,
Micu Andreea



Centralizator Ape subterane 2021

Loc de prelevare/zona	Indicatori de calitate	UM	Valori de referinta	Trim. I	Trim. II	Trim. III	Trim. IV	Incertitudine %
Zona Halda de zgura								
F61	pH		7.90	7.54	7.6	7.75	7.54	-
	SS	mg/l	47	35	32	35	40	± 0.05
	Reziduu filtrabil	mg/l	582	468	436	456	475	± 10
	CCO Mn	mg/l	46	31.26	28.54	26.64	30	± 0.7
	Cloruri	mg/l	156	131	118	116	122	± 5
	Sulfati	mg/l	170	148	133	127	134.22	± 5
	Azotati	mg/l	14.7	12.65	10.85	11.26	10.42	± 0.3
	Amoniu	mg/l	0.400	0.326	0.355	0.347	0.321	± 0.001
	Fier total	mg/l	2.6	1.68	1.25	1.25	1.68	± 0.05
	Calciu	mg/l	87	65.74	68	70	68.56	± 2.2
	Magneziu	mg/l	17	14.52	13.92	12.45	13.24	± 2
	Compusi fenolici	mg/l	0.009	0.0062	0.008	0.007	0.005	± 0.005
	Cianuri	mg/l	0.002	0.0012	0.001	0.001	0.001	± 0.0006
	Crom total	mg/l	0.050	0.036	0.031	0.024*	0.024*	± 0.05
	Mangan	mg/l	0.044	0.034	0.039	0.037	0.034	± 0.005
	Nichel	mg/l	0.027	0.021	0.023	0.024	0.022	± 0.01
	Zinc	mg/l	0.052	0.042	0.037	0.040	0.046	± 0.016
	Plumb	mg/l	0.058	0.058*	0.058*	0.058*	0.058*	± 0.008
Cupru	mg/l	0.03	0.017	0.001*	0.001*	0.001*	± 0.002	
F62	pH		7.42	7.26	7.32	7.25	7.18	-
	SS	mg/l	22	20	18	19	17	± 0.05
	Reziduu filtrabil	mg/l	227	215	185	196	189	± 10
	CCO Mn	mg/l	59	40	33.6	34.21	32.68	± 0.7
	Cloruri	mg/l	36.58	30.26	28.54	27.51	30.00	± 5
	Sulfati	mg/l	55	40.56	36.62	34.69	38.66	± 5
	Azotati	mg/l	0.92	0.68	0.526	0.499	0.625	± 0.3
	Amoniu	mg/l	0.15	0.075	0.110	0.100	0.120	± 0.001
	Fier total	mg/l	0.765	0.328	0.425	0.437	0.564	± 0.05
	Calciu	mg/l	47.12	42.23	41.26	42.16	40	± 2.2
	Magneziu	mg/l	14.3	11.56	12.22	12.69	11.82	± 2
	Compusi fenolici	mg/l	0.002	0.001	0.001	0.001	0.001	± 0.005
	Cianuri	mg/l	0.002	0.001	0.001	0.001	0.001	± 0.0006
	Crom total	mg/l	0.033	0.024	0.030	0.024*	0.024*	± 0.05
	Mangan	mg/l	0.22	0.160	0.180	0.174	0.168	± 0.005
	Nichel	mg/l	0.025	0.022	0.020	0.019	0.021	± 0.01
	Zinc	mg/l	0.013	0.009	0.011	0.012	0.010	± 0.016
	Plumb	mg/l	0.058*	0.058*	0.058*	0.058*	0.058*	± 0.008
Cupru	mg/l	0.0024	0.001*	0.001*	0.001*	0.001*	± 0.002	

Nota: * limita de cuantificare

Analizand rezultatele determinarilor, nu se inregistreaza depasiri fata de valorile de referinta.

Intocmit,
Sava Simona
Ciobotaru Daniela

Sef serv.Reglementare si Monitorizare,
fiz.Nastase Cristina

**Monitorizarea factorilor de mediu
pentru depozitul de deseuri
industriale periculoase**

“Hidrohalda”

2021

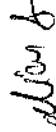
Centralizator sol Hidrohalda
2021

Nr. crt.	Locul recoltării/perioada	Indicatori										
		pH	Total hidrocarburi din petrol (mg/kg s.u.)	C.organic (% s.u.)	N total (mg/g s.u.)	Cu (mg/Kg)	Zn (mg/Kg)	Mn (mg/Kg)	Pb (mg/Kg)	Cd (mg/Kg)	Ni (mg/Kg)	Cr (mg/Kg)
Valoare masurata												
1	Sol. zona foraj Est-0-5 cm suprafața	8.24	80.15	13.10	0.67	33.65	54.33	617.74	43.20	0.51	33.03	22.22
	Sol. zona foraj Est- 30-40 cm adancime	8.23	71.25	12.81	0.73	37.93	62.57	597.02	46.17	0.50	30.88	26.21
2	Sol. zona foraj Nord-Est-0-5cm suprafața	8.22	80.05	19.22	0.47	37.64	79.45	755.34	40.96	0.53	34.49	25.43
	Sol. zona foraj Nord-Est-30-40 cm adancime	8.29	71.40	17.40	0.57	42.43	77.13	746.72	43.05	0.52	34.08	26.72
3	Sol. zona foraj Vest-0-5cm suprafața	8.18	70.00	18.54	0.39	35.82	69.43	710.73	37.05	0.49	33.66	29.01
	Sol. zona foraj Vest- 30-40 cm adancime	8.14	59.95	13.50	0.49	37.73	72.00	687.42	47.11	0.51	33.34	32.61
4	Sol. zona Nord-Vest hidrohalda-0-5cm suprafața	8.12	71.45	20.14	0.62	40.35	81.13	720.18	40.80	0.50	31.41	32.17
	Sol. zona Nord-Vest hidrohalda-30-40cm adancime	8.22	66.70	19.21	0.76	44.46	79.87	775.20	42.36	0.50	33.12	33.18
5	Sol. zona laz Catusa-0-5cm suprafața	8.26	77.75	17.24	0.47	35.80	75.50	683.39	37.31	0.50	34.29	24.97
	Sol. zona laz Catusa-30-40 cm adancime	8.25	74.30	14.15	0.50	37.76	78.95	696.56	42.13	0.49	32.87	25.79
	Incertitudine %	±2	±7	-	±0.2	±2.02	±3.8	±2.15	±3.7	±2.4	±4.4	±4.2
VLE pentru soluri cu folosinta mai putin sensibile conform Ordin 756/97 pentru aprobarea Reglementării privind evaluarea poluării mediului		7.5-8.5	1000	-	-	<250	<700	<2000	<250	<5	<200	<300

Observatii:

1. Frecvența de monitorizare pentru factorul de mediu sol: semestrială. Datele reprezintă monitorizarea realizată de Laboratorul de Mediu în cursul anului 2021 (media determinărilor semestriale). Se anexează rapoartele de încercare emise de Laboratorul de Mediu.
2. Analizând valorile rezultatelor obținute, nu se înregistrează depășiri ale valorilor limita prevăzute în Autorizația Integrată de Mediu nr. 1 / 24.08.2015, rev.05.03.2020, respectiv Ordin 756/97 pentru aprobarea Reglementării privind evaluarea poluării mediului.

Intocmit,
Micu Andreea



Situatia lunara pe tarz Catusa

Nr. crt.	Indicatori de calitate	U.M.	Metoda de analiza folosita	Perioada de monitorizare												Incertitudine %	
				VLE AQA	ianuarie	februarie	martie	aprilie	mai	iunie	iulie	august	septembrie	octombrie	noiembrie		decembrie
1	pH		STAS 7184/13-88	6.5-8.5	8.09	8.05	8.08	8.11	8.17	8.09	7.96	7.68	7.58	7.60	8.02	8.01	-
2	Alcalinitate "m"	mg/l	-	-	2.15	2.10	2.20	1.85	2.00	2.34	2.16	2.30	2.00	1.96	2.96	3.20	-
3	Alcalinitate "g"	mg/l	-	0.217	0.187	0.120	0.140	0.162	0.184	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-
4	CCO-Cr	mg/l	STAS 6064-96	125	75.67	76.00	74.00	73.33	71.00	73	70.67	70.00	72.67	73.00	83.00	81.67	± 0.7
5	Reziduu filtrabil	mg/l	STAS 9187-84	1940	483	469	482	480	473.00	477.67	504.0	479.33	496.67	478.00	511.33	515.67	± 10
6	Bicarbonati	mg/l	SR ISO 9963-1	-	86.12	75.69	70.38	77.40	74.24	71.36	77.25	75.22	73.26	76.00	80.00	85.00	-
7	Carbonati	mg/l	SR ISO 9963-1	-	11.08	10.58	9.75	12.20	14.00	13.20	0.00	0.00	0.00	0.00	0.00	0.00	-
8	Sulfati	mg/l	Chimia Sanitara a Mediului	300	50.53	50.03	48.00	52.24	53.39	53.28	51.93	10.87	52.02	50.21	52.47	52.58	± 5
9	Fier total	mg/l	SR ISO 6532-96	-	0.567	0.554	0.579	0.780	0.625	0.742	0.693	0.578	0.523	0.702	0.692	0.725	± 0.05
10	Calciu	mg/l	STAS 3662-62	-	38.64	36.97	37.36	41.24	42.00	40.56	41.22	49.21	46.28	45.44	42.22	47.00	-
11	Magneziu	mg/l	STAS 3026-76	-	20.16	19.47	21.14	19.62	21.00	20.18	20.18	20.07	19.84	19.26	17.84	20.20	-
12	Crom total	mg/l	Metoda 8023 (HACH)	1	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	± 0.05
13	Mangan	mg/l	Metoda 8149 (HACH)	-	0.149	0.136	0.152	0.165	0.170	0.192	0.147	0.137	0.13	0.15	0.12	0.145	± 0.005
14	Nichel	mg/l	Metoda 8037 (HACH)	-	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	± 0.01
15	Zinc	mg/l	Metoda 8009 (HACH)	0.5	0.005*	0.005*	0.005*	0.005*	0.005*	0.005*	0.005*	0.005*	0.005*	0.005*	0.005*	0.005*	± 0.016
16	Plumb	mg/l	Metoda 8317 (HACH)	-	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	± 0.008
17	Cadmium	mg/l	Metoda LCK 308 (HACH)	-	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	± 0.002
18	Cupru	mg/l	Metoda 8143 (HACH)	0.1	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	± 0.002
19	Sodiu	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Potasiu	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

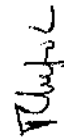
Nota: pe probele analizate nu s-au identificat indicatorii Na, K.

Analizom rezultatele determinatiilor efectuate, nu se inregistreaza depasiri ale concentratiilor indicatorilor analizati fata de VLE stabilite de Autorizatia de Gospodarie a Apelor.

* limita de cuantificare

 Intocmit:
 Clădior Țincuta

 Sef Serv. Reglementare si Monitorizare,
 fiz. Cristina Morarite



Situatia lunara pe Balta Catusa

Nr. crt.	indicatori de calitate	U.M.	Metoda de analiza folosita	Perioada de monitorizare												Incertitudine %
				ianuarie	februarie	martie	aprilie	mai	iunie	iulie	august	septembrie	octombrie	noiembrie	decembrie	
1	pH		STAS 7184/13-88	7.96	8.01	8.25	8.17	8.21	8.12	8.24	8.15	8.21	8.17	8.33	8.16	-
2	Alcalinitate "m"	mval/l	-	1.6	1.4	1.37	1.26	1.31	1.02	1.52	3.00	2.75	2.64	2.51	2.70	-
3	Alcalinitate "g"	mval/l	-	1.10	1.02	1.12	1.10	1.15	1.10	0.98	0	0	0	0	0	-
4	CCO-Cr	mg/l	Metoda LCK 314 (HACH)	26	27	24.6	25.3	24.63	22.75	20.00	26.00	24.63	23.81	25.00	28.12	±2
5	Reziduu filtrabil	mg/l	STAS 9187-84	148	137	140	130	128	114	145	255.00	247.11	236.9	250	254	±10
6	Bicarbonati	mg/l	SR ISO 9963-1	15.20	14.60	12.11	11.14	10.17	9.25	14	32.00	29.00	27.11	30.1	33.05	-
7	Carbonati	mg/l	SR ISO 9963-1	1.06	1.10	1.13	1.09	1.10	1.12	1.00	0	0	0	0	0	-
8	Sulfati	mg/l	Chimia Sanitara a Mediului	60.20	58.00	56.24	55.36	54.28	52.69	48.62	61.00	57.12	54.36	52.14	55.24	±5
9	Fier total	mg/l	SR ISO 6332-96	0.244	0.255	0.248	0.251	0.237	0.241	0.195	0.168	0.158	0.147	0.138	0.142	±0.05
10	Calciu	mg/l	STAS 3662-62	40.10	41.00	39.17	37.86	35.26	33.59	36.00	40.00	39.25	37.25	32.22	36.22	±2.2
11	Magneziu	mg/l	STAS 3026-76	20.00	22.00	21.16	20.16	19.72	17.46	19.00	17.80	16.47	17.12	16.18	18.44	±2
12	Crom total	mg/l	Metoda LCK 313 (HACH)	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	0.024*	±0.05
13	Mangan	mg/l	Metoda 8149 (HACH)	0.023	0.025	0.024	0.022	0.021	0.02	0.026	0.023	0.022	0.021	0.022	0.020	±0.005
14	Nichel	mg/l	Metoda 8037 (HACH)	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	0.015*	±0.01
15	Zinc	mg/l	Metoda 8009 (HACH)	0.011	0.010	0.011	0.012	0.013	0.015	0.012	0.010	0.010	0.011	0.005*	0.005*	±0.016
16	Plumb	mg/l	Metoda LCK 306 (HACH)	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	0.058*	±0.008
17	Cadmium	mg/l	Metoda LCK 308 (HACH)	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	0.016*	±0.3
18	Cupru	mg/l	Metoda LCK 529 (HACH)	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	±0.002
19	Sodiu	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Potasiu	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Noia: pe probele analizate nu s-au identificat indicatorii Na,K.

* limita de cuantificare

Intocmit,
Chifor Tincuta

Sef Serv. Reglementare si Monitorizare,

flz. Christina Nisicase



Centralizator Ape subterane 2021

Loc de prelevare/zona	Indicatori de calitate	Valoare de referinta (mg/l)	Trim. I	Trim. II	Trim. III	Trim. IV	Incertitudine %
Zona Hidrohalda							
Foraj 96 (zona Vest)	pH	8.2	7.42	7.82	7.50	7.88	-
	Suspensii	70	55	62	66	60	±0.05
	Reziduu fix	573.5	514.1	506.0	510.0	498.0	±10
	CCO-Mn	42.5	35.26	33.00	35.20	33.00	±0.7
	CCO-Cr	55.3	45.12	48.00	50.00	52.00	±2
	Duritate totala	33.5	25.64	30.02	31.40	30.16	-
	Calciu	63.3	50.63	56.32	53.82	55.24	±2.2
	Magneziu	35.5	32.14	30.66	28.56	27.42	±2
	Amoniu	1.45	1.38	1.14	1.22	1.18	±0.001
	Sulfati	185.0	170.8	154.00	148.44	151.0	±5
	Cloruri	80.2	71.23	66.25	68.00	71.00	±5
	Azotati	8.71	7.69	5.36	6.24	7.00	±0.3
	Compusi fenolici	0.005	0.002	0.004	0.003	0.002	±0.005
	Cianuri	0.003	0.001	0.002	0.002	0.001	±0.0006
	Cupru	0.005	0.002	0.002	0.003	0.002	±0.002
	Cadmium	0.1	0.016*	0.016*	0.016*	0.016*	±0.3
	Fier	1.95	1.85	1.48	1.67	1.74	±0.05
	Zinc	0.04	0.032	0.029	0.033	0.031	±0.016
	Nichel	0.1	0.044	0.039	0.035	0.030	±0.01
	Mangan	0.3	0.124	0.160	0.184	0.201	±0.005
	Crom	0.05	0.035	0.032	0.035	0.041	±0.05
	Plumb	0.1	0.058*	0.058*	0.058*	0.058*	±0.008
	Carbonati	2.9	2.5	1.80	2.20	2.60	-
	Bicarbonati	21.5	17.46	20.4	19.60	20.20	-
	Sodiu	-	-	-	-	-	-
	Potasiu	-	-	-	-	-	-
	Foraj 95 (zona Est)	pH	8.32	8.26	8.10	8.24	8.28
Suspensii		90	71	65	78	72	±0.05
Reziduu fix		559.1	455.60	423.24	480.00	472.00	±10
CCO-Mn		45.6	37.26	40.00	42.00	40.26	±0.7
CCO-Cr		59.2	50.23	46.00	48.22	51.00	±2
Duritate totala		30.4	24.68	26.00	28.32	27.44	-
Calciu		70.2	62.13	58.44	54.62	58.00	±2.2
Magneziu		47.4	43.26	41.21	40.00	42.00	±2
Amoniu		1.82	1.69	1.26	1.49	1.60	±0.001
Sulfati		209.3	174.3	155.45	168.00	172.00	±5
Cloruri		68.2	55.68	52.87	51.86	53.68	±5
Azotati		8.3	7.26	6.74	7.20	7.80	±0.3
Compusi fenolici		0.004	0.003	0.002	0.002	0.001	±0.005
Cianuri		0.002	0.0016	0.0013	0.0016	0.0013	±0.0006
Cupru		0.005	0.0030	0.002	0.003	0.002	±0.002
Cadmium		0.1	0.016*	0.016*	0.016*	0.016*	±0.3
Fier		1.8	1.70	1.28	1.56	1.62	±0.05
Zinc		0.082	0.075	0.054	0.060	0.066	±0.016
Nichel		0.2	0.098	0.078	0.084	0.102	±0.01
Mangan		0.2	0.156	0.128	0.133	0.122	±0.005
Crom		0.05	0.033	0.030	0.036	0.032	±0.05
Plumb		0.1	0.058*	0.058*	0.058*	0.058*	±0.008
Carbonati		2.2	1.7	1.40	1.74	1.85	-
Bicarbonati		17.3	16.10	15.40	16.00	16.40	-
Sodiu		-	-	-	-	-	-
Potasiu		-	-	-	-	-	-

Foraj 94 (zona Nord- est)	pH	8.45	8.24	8.32	8.18	8.3	-
	Suspensii	85	63	58.00	61.00	70.00	±0.05
	Reziduu fix	572.5	517.23	495.00	502.00	488	±10
	CCO-Mn	44.8	43.11	37.40	33.45	36	±0.7
	CCO-Cr	50.8	42.33	42.00	45.00	47	±2
	Duritate totala	37.8	33.4	29.00	31.23	29.84	-
	Calciu	71.9	62.47	58.25	60.62	62.56	±2.2
	Magneziu	39.6	36.25	33.62	31.75	33.00	±2
	Amoniu	2.7	2.50	1.96	1.78	2.02	±0.001
	Sulfati	180.5	154.6	134.25	146.24	160	±5
	Cloruri	97.3	88.05	80.47	78.56	81	±5
	Azotati	7.85	7.64	6.64	6.12	6.70	±0.3
	Compusi fenolici	0.003	0.002	0.002	0.002	0.002	±0.005
	Cianuri	0.003	0.001	0.001	0.002	0.002	±0.0006
	Cupru	0.005	0.003	0.002	0.003	0.002	±0.002
	Cadmium	0.1	0.016*	0.016*	0.016*	0.016*	±0.3
	Fier	1.87	1.62	1.44	1.62	1.57	±0.05
	Zinc	0.095	0.083	0.072	0.067	0.071	±0.016
	Nichel	0.1	0.015*	0.015*	0.015*	0.015*	±0.01
	Mangan	0.15	0.136	0.122	0.131	0.124	±0.005
	Crom	0.05	0.039	0.032	0.035	0.033	±0.05
	Plumb	0.11	0.058*	0.058*	0.058*	0.058*	±0.008
	Carbonati	1.8	1.6	1.32	1.68	1.57	-
	Bicarbonati	16.4	15.06	14.26	15.00	15.74	-
	Sodiu	-	-	-	-	-	-
	Potasiu	-	-	-	-	-	-
Foraj Martor	pH	8.4	8.15	8.00	8.16	7.95	-
	Suspensii	91	74	63.00	76.00	84	±0.05
	Reziduu fix	580.4	524.62	505.00	515.00	522	±10
	CCO-Mn	46.8	43.84	37.00	40.16	42	±0.7
	CCO-Cr	59.5	51.36	49.00	51.00	53	±2
	Duritate totala	38.2	36.11	31.00	33.00	35	-
	Calciu	77.9	65.87	61.58	63.14	67.52	±2.2
	Magneziu	48.2	42.65	39.66	40.00	42.00	±2
	Amoniu	2.8	2.4	2.10	1.95	2.16	±0.001
	Sulfati	176.8	158.2	146.00	136.00	141	±5
	Cloruri	96.2	85.35	77.24	80.22	84.26	±5
	Azotati	8.9	7.36	6.87	7.00	7.80	±0.3
	Compusi fenolici	0.005	0.003	0.002	0.003	0.002	±0.005
	Cianuri	0.003	0.002	0.001	0.001	0.001	±0.0006
	Cupru	0.005	0.003	0.002	0.003	0.002	±0.002
	Cadmium	0.1	0.016*	0.016*	0.016*	0.016*	±0.3
	Fier	1.98	1.82	1.62	1.77	1.82	±0.05
	Zinc	0.073	0.070	0.063	0.060	0.068	±0.016
	Nichel	0.15	0.015*	0.015*	0.015*	0.015*	±0.01
	Mangan	0.3	0.23	0.200	0.221	0.206	±0.005
	Crom	0.05	0.040	0.038	0.036	0.032	±0.05
	Plumb	0.12	0.058*	0.058*	0.058*	0.058*	±0.008
	Carbonati	3.5	3.2	2.60	3.00	2.85	-
	Bicarbonati	23.1	21.11	20.55	21.00	22.30	-
	Sodiu	-	-	-	-	-	-
	Potasiu	-	-	-	-	-	-

Nota:

* limita de cuantificare

Analizand rezultatele determinarilor, nu se inregistreaza depasiri fata de valorile de referinta.

Intocmit,
Ciobotaru Daniela
Sava Simona

Sef serv.Reglementare si Monitorizare,
fiz. Nastase Costina

**NIVEL DE ZGOMOT
2021**

Monitorizare nivel de zgomot 2021

1. **Puncte de prelevare:** 6 puncte, la limita amplasamentului conform obligatiei mentionate in Autorizatia Integrata de Mediu nr. 1/24.08.2015 rev. 05.03.2020 (vezi Tabel nr.1);
2. **Echipament de masura:** sonometrul CEM – DT8852 seria 201107776.
3. **Rezultatele masuratorilor de zgomot sunt centralizate in tabel nr. 1.**

Tabel nr. 1

Nr. crt.	Loc de prelevare	VLE cf. Autorizatie Integrata de Mediu nr 1/24.08.15,rev. 05.03.2020	Nivel zgomot dB(A)					
			Martie 2021	Iunie 2021	Septembrie 2021	Decembrie 2021	Valoare medie 2021	Valoare RQC 2021
1	Poarta Vest	65 dB(A)	46.2	45.4	45.2	49.3	46.53	56.8
2	Poarta Nord		57.6	59.5	55.3	54.9	56.83	58.6
3	Poarta Est		51.6	51.9	51.9	51.2	51.65	55.9
4	Poarta Sud		60.2	56.2	55.4	55.3	56.78	59.1
5	Smardan		37.3	48.3	44.3	52.5	45.60	55.6
6	Sendreni		39.7	52.6	50.6	49.6	48.13	58.2

Note:

1. Valorile inregistrate anual se incadreaza in valoarea limita de emisie precizata in Autorizatia Integrata de Mediu nr.1/24.08.2015 rev. 05.03.2020. Se anexeaza rapoartele de incercare emise de Laboratorul de Mediu LIBERTY GALATI S.A.

2. Pentru verificarea conformitatii datelor se realizeaza anual determinari cu laborator tert. Se anexeaza rapoartele de incercare emise de Rompetrol Quality Control Navodari (RQC).

Intocmit,
Chifor Tincuta



**RAPORT ANUAL 2021 PRIVIND CANTITATEA DE DEȘEURI GENERATE,
COLECTATE / VALORIFICATE / ELIMINATE**

Nr crt	Denumire deseu	Cod deseu	[tone]							
			generate		valorificate		eliminate		ramasa in stoc	
			2021	2021	Societati	2021	Societati	01.01.2021	31.12.2021	
1	Deseu rumegus	03 01 05	12,5	11,3	Valea Lupului 1	0	-	0	1,2	
2	deseu acid clorhidric uzat	06 01 02*	102,48	0	-	102,48	Chimcomplex	0	0	
3	deseu mercur	06 04 04*	0	0	-	0	-	0	0	
4	deseuri materiale plastice	07 02 13	0,78	0,74	Valea Lupului 1	0	-	1,5	1,54	
5	deseu vopseuri	08 01 11*	150,76	0	-	150,76	VIVANI	11,58	11,58	
6	deseu cartus toner	08 03 17*	0	0	-	0	-	0	0	
7	zgura cuplor laminoare	10 02 02	1637,56	1637,56	Valea Lupului 1	0	-	0	0	
8	praf furnale	10 02 08	10198,59	16321,75	DAMP	0	-	6123,16	0	
9	praf desprafuire secundara + LF	10 02 08	701,06	1255,3	DAMP	0	-	1089,32	535,08	
10	praf desprafuire desulfurare DS1	10 02 08	379,03	410,94	DAMP	0	-	385,48	353,57	
11	tunder	10 02 10	36429,029	42944	DAMP+MAROM+VL1	0	-	14706,454	8191,483	
12	siam decantor	10 02 11*	3490,14	3196	ECOMOCAR	0	-	9154,88	9449,02	
13	siam furnal	10 02 14	6450,36	11391,23	Heidelberg Cement/ Holcim	0	-	249337,354	244396,484	
14	siam OLD grosier	10 02 14	7548,36	4618,38	DAMP	0	-	0	2929,98	
15	siam otelarie deshidratat	10 02 14	36086,746	18871,61	DAMP	0	-	44355,52	61570,656	
16	Deseu fibra de sticla	10 11 03	0	0	Valea Lupului 1	0	-	0	0	
17	steril de var	10 13 04	184,38	199,8	Valea Lupului 1	0	-	15,42	0	
18	praf de var	10 13 06	19637,06	19517,06	DAMP	0	-	30,35	150,35	
19	praf de var + calcar	10 13 13	0	0	Valea Lupului 1	0	-	0	0	
20	moloaz	10 13 14	98990,03	86940,35	Valea Lupului 1	0	-	391,16	12440,84	
21	deseu industrial si refractar din constr.	10 13 14	19,76	116,98	Valea Lupului 1	0	-	118,5	21,28	
22	deseu Passerite	11 01 05*	41,4	0	-	42,2	VIVANI	1,04	0,24	
23	drojdie zinc	11 05 01	967,93	557,74	Mer Invest	0	-	30,55	440,74	
24	span ferros	12 01 01	104,67	104,67	BFV	0	-	0	0	
25	fier vechi tehnologic	12 01 01	313778,461	313796,667	BFV	0	-	30,49	12,284	
26	span alama(neteros)	12 01 03	3,881	1,234	Firme specializate	0	-	0,627	3,274	
27	span bronz	12 01 03	3,311	0,672	Firme specializate	0	-	0,564	3,203	
28	deseu aliaj antifricțiune Y-SN 88	12 01 03	0	0	TAS	0	-	0	0	
29	emulsie uzata	12 01 09*	10,26	0	-	10,26	VIVANI	19,41	19,41	
30	ulei uzat sintetic de ungere	12 01 10*	0	0	MIHOOC	0	-	0	0	

Nr crt	Denumire deseu	Cod deseu	generate		valorificate		eliminate		ramasa in stoc	
			2021	2021	Societati	2021	Societati	01.01.2021	31.12.2021	
										[tone]
31	vaselina uzata	12 01 12*	13,34	0	-	13,5	VIVANI	1,05	0,89	
32	zgura sudura	12 01 13	652,92	1080,32	Valea Lupului 1	0	-	433	5,6	
33	siam laminor	12 01 14*	348,9	0	-	361,36	VIVANI	94,044	81,584	
34	siam Strungaria de cilindrii	12 01 14*	312,82	0	-	322,06	VIVANI	11,46	2,22	
35	siam emulsie (MU)	12 01 14*	5,78	0	-	5,78	VIVANI	0	0	
36	pietre abrazive	12 01 21	9,8	11,38	Valea Lupului 1	0	-	1,58	0	
37	lichide apoase de spalare	12 03 01*	0	0	-	0	-	0	0	
38	ulei uzat	13 02 05* 13 01 10*	364,333	328,44	MIHOC	0	-	26,183	62,076	
39	namol uleios	13 05 02*	0	0	-	0	-	0	0	
40	ulei de la separatora apa-ulei	13 05 06*	0	0	MIHOC	0	-	0	0	
41	deseu hartie ambalaj	15 01 01	25,02	24,54	Valea Lupului 1/ Eco Metal	0	-	0	0,48	
42	deseuri PET	15 01 02	20,76	20,76	Valea Lupului 1	0	-	0	0	
43	deseu de lemn din ambalaj	15 01 03	883,85	928,7	Valea Lupului 1 / Eco Metal	0	-	44,85	0	
44	deseu ambalaj metalic (VL2)	15 01 04	212,36	212,36	BFV	0	-	0	0	
45	deseu material textil- ambalaje	15 01 09	0,64	0,64	Valea Lupului 1	0	-	0,88	0,88	
46	ambalaje care contin reziduuri sau care sunt contaminate cu subs. periculoase	15 01 10*	308,08	0	VIVANI	311,08	VIVANI	14,79	11,79	
47	material absorbant cu ulei	15 02 02*	3,86	0	-	7,02	VIVANI	3,66	0,5	
48	deseu materiale de lustruire si echipamente de lucru	15 02 02*	18,208	0	-	21,94	VIVANI	8,351	4,619	
49	deseu materiale de lustruire si echipamente de lucru	15 02 03	210,78	74,24	Valea Lupului 1	136,54	VIVANI	5,38	5,38	
50	deseuri cauduc - anvelope	16 01 03	0,58	0	Valea Lupului 1	0	-	5,65	6,23	
51	VSU scoase din uz	16 01 06	0	0	Eco-Metal	0	-	0	0	
52	deseu filtre ulei	16 01 07*	0,375	0	-	0,28	VIVANI	0,03	0,125	
53	placi frana cu continut de azbest	16 01 11	0	0	-	0	-	2	2	
54	SDV-uri din casari (rulment)	16 01 17	0	0	Firme specializate	0	-	0	0	
55	furtune uzate imbabate cu ulei	16 01 21*	7,58	0	-	7,22	VIVANI	0	0,36	
56	transformatori si cond.continand PCB	16 02 09*	70,42	0	-	70,42	SETCAR	0	0	
57	deseu echip electrice si electronice	16 02 14	1,58	0	ECO METAL	0	-	0	1,58	
58	echipament electric	16 02 14	1,268	0	ECO METAL	0	-	0	1,268	
59	deseu monitorare	16 02 15*	0	0	ECO METAL	0	-	0,92	0,92	
60	Deseu echipam. el. si electronice (DEEE)	16 02 16	0,33	0,02	ECO METAL	0	-	0	0,31	
61	deseu piese electrice	16 02 16	1,15	1,066	ECO METAL	0	-	0,454	0,538	
62	deseu Ag pastile cu suport metalic ptr. contacti (BUG)	16 02 16	0	0	-	0	-	0,231	0,231	
63	deseu Ag ptr. sigurante fuzibile	16 02 16	0	0	-	0	-	0,05	0,05	

Nr crt	Denumire deseu	Cod dese	[tone]							
			generate		valorificate		eliminate		ramasa in stoc	
			2021	2021	Societati	2021	Societati	01.01.2021	31.12.2021	
64	carbidi	16 03 03*	0	0	-	0	-	0,944	0,944	
65	deseu banda cauciuc	16 03 06	199,78	199,62	Valea Lupului 1	0	-	0	0,16	
66	deseuri de laborator	16 05 06*	0,22	0	-	0,22	VIVANI	0	0	
67	acumulatori auto	16 06 01*	16,74	16,74	CARANDA	0	-	0	0	
68	alte baterii si acumulatori	16 06 05	0	0	-	0	-	4,537	4,537	
69	deseu hipoclorit de sodiu	16 09 04*	0,98	0	-	0,98	VIVANI	0	0	
70	caramida refractara pe baza de carbon	16 11 02	0	0	Valea Lupului 1	0	-	21,08	21,08	
71	deseu caramida refractara	16 11 04	3011,16	3331,34	Valea Lupului 1	0	-	2393,28	2073,1	
72	beton	17 01 01	1610,36	275,02	Valea Lupului 1	0	-	339,42	1674,76	
73	deseu lemn	17 02 01	0	0	Valea Lupului 1	0	-	0	0	
74	textolit	17 02 01	0	0	-	0	-	0	0	
75	materiale plastice	17 02 03	28,46	11,78	Valea Lupului 1	0	-	1,22	17,9	
76	deseu cauciuc(lemn) imblat cu ulei	17 02 04*	117,68	0	-	120,2	VIVANI	2,52	0	
77	deseu asfalt	17 03 02	32,48	32,48	Valea Lupului 1	0	-	0	0	
78	deseu cupru	17 04 01	37,933	31,116	Firme specializate	0	-	12,867	19,684	
79	deseu cupru+zinc(alama)	17 04 01	9,759	11,453	Firme specializate	0	-	2,137	0,443	
80	deseu bronz	17 04 01	3,193	3,465	Firme specializate	0	-	1,07	0,798	
81	deseu aluminiu	17 04 02	2,333	3,151	Firme specializate	0	-	2,215	1,397	
82	deseu Plumb	17 04 03	0	0	Firme specializate	0	-	0	0	
83	fier vechi tehnologic	17 04 05	5114,66	5463,66	BFV	0	-	367	18	
84	otel inox	17 04 05	16	17,04	Firme specializate	0	-	1,04	0	
85	fier vechi - achizitie externa	17 04 05	236486,647	225202,568	BFV	0	-	13993,319	25277,398	
86	amestecuri metalice	17 04 07	314,38	314,34	Firme specializate	0	-	0	0,04	
87	cablu cupru	17 04 11	10,547	7,266	Firme specializate	0	-	4,174	7,455	
88	cablu aluminiu	17 04 11	0	0	-	0	-	0	0	
89	pamant si pietre cu cont de subst.peric.	17 05 03*	28,56	0	-	28,56	VIVANI	0	0	
90	pamant si pietre	17 05 04	0	0	-	0	-	0	0	
91	vata minerala	17 06 04	3,76	2,52	Valea Lupului 1	0	-	2,54	3,78	
92	deseu azbociment	17 06 05*	109,46	0	-	109,46	VIVANI	16,87	16,87	
93	mediu de cultura autoclavat	18 02 03	0,036	0	-	0,036	Eco Fire	0	0	
94	oxid de fier	19 03 07	0	0	-	0	-	40,08	40,08	
95	slam GA(decantor) -namol tratare apa	19 09 01	114,42	207,42	Valea Lupului 1	0	-	93	0	
96	deseu hartie carton	20 01 01	0,68	1,44	Valea Lupului 1	0	-	8,345	7,585	
97	sticla	20 01 02	4,28	1,72	Valea Lupului 1	0	-	0	2,56	
98	tuburi fluorescente	20 01 21*	0	0	-	0	-	2,035	2,035	
99	deseu lemn - altii decat cel specificat	20 01 38	656,56	656,56	Valea Lupului 1	0	-	0	0	

Nr crt	Denumire deseu	Cod deseu	[tone]				ramasa in stoc 01.01.2021	ramasa in stoc 31.12.2021
			generate 2021	valorificate 2021	eliminate 2021	Societati		
100	deseu PVC	20 01 39	0	0	0	-	0,398	0,398
101	deseuri biodegradabile - spatii verzi	20 02 01	732,86	0	0	-	215,92	948,78
102	deseuri menajere (to)	20 03 01	563,76	0	563,76	ECOSAL	0	0
	Total		789630,96	760367,148	2386,116		343983,652	370861,348

GESTIUNEA DESEURILOR 2021 - DEMOLARI

Nr crt	Denumire deseu	Cod deseu	generate		valorificate		eliminate		ramasa in stoc	
			2021	2021	Societati	2021	Societati	01.01.2021	31.12.2021	
1	deseu smoala in amestec cu pamant	05 06 03*	0	0	VIVANI	0	-	0	0	
2	siam gudron	05 06 03*	1757,5	0	-	1757,5	AFRV/vvani	0	0	
3	siam de cocs	05 06 04	0	0	-	0	-	0	0	
4	deseu sulf	05 06 99	0	0	-	0	-	0	0	
5	deseu acid sulfuric degradat	06 01 01*	0	0	-	0	-	0	0	
6	hidroxid de sodiu	06 02 04*	0	0	-	0	-	0	0	
7	deseu soda caustica degradata	06 02 04*	0	0	-	0	-	0	0	
8	deseu procesare zgura	10 02 01	0	0	Valea Lupului 1	0	-	0	0	
9	siam decantor	10 02 11*	0	0	-	0	-	0	0	
10	siam Malina	10 02 14	1182	17297,4	MAROM ECO	0	-	76707,39	60591,99	
11	sterili de var	10 13 04	0	0	Valea Lupului 1	0	-	3,24	3,24	
12	deseu metalic feros	12 01 01	0	0	BFV	0	-	0	0	
13	vaselina uzata	12 01 12*	0	0	Firme specializate	0	-	0	0	
14	siam emulsie	12 01 14*	0	0	-	0	-	0	0	
15	ulei uzat	13 02 05* 13 01 10*	0	0	MIHOC	0	-	0	0	
16	hartie si carton	15 01 01	0	0	Valea Lupului 1	0	-	0	0	
17	deseu de lemn	15 01 03	0	0	Valea Lupului 1	0	-	0	0	
18	deseu ambalaj lemn	15 01 03	0	0	Valea Lupului 1	0	-	0	0	
19	ambalaje care contin reziduuri sau care sunt contaminate cu subst. periculoase	15 01 10*	0	0	-	0	-	0	0	
20	material absorbant	15 02 03	0	0	-	0	-	0	0	
21	anvelope uzate	16 01 03	0	0	Valea Lupului 1	0	-	0	0	
22	SDV din casari	16 01 17	0	0	BFV	0	-	0	0	
23	Echiptamente casate cu continut de clorofluorcarburi, HCFC, HFC	16 02 11*	0	0	ECO METAL	0	-	3,83	3,83	
24	echip electrice si electronice	16 02 14	0	0	Firme specializate	0	-	0	0	
25	Componente demontate din echipamente casate	16 02 16	0	3,83	ECO METAL	0	-	3,83	0	
26	deseu caucic	16 03 06	0	0	Valea Lupului 1	0	-	0	0	
27	banda caucic	16 03 06	0	0	Valea Lupului 1	0	-	0	0	
28	substante chimice de laborator	16 05 06*	0	0	-	0	-	0	0	
29	acumulatori uzati	16 06 01*	0	0	Firme specializate	0	-	0	0	

Nr crt	Denumire deseu	Cod deseu	[tone]						
			generate	valorificate		eliminate		ramasa in stoc	
			2021	2021	Societati	2021	Societati	01.01.2021	31.12.2021
30	deseu caramida refractara	16 11 04	4237,48	1563,28	Valea Lupului1+ Firme specializate	0	-	51657,93	54332,13
31	deseuri din beton	17 01 01	365,24	0	Valea Lupului 1	0	-	262,34	627,58
32	traverse beton	17 01 01	0	97,2	TRANSFEROV/AR	0	-	106,62	9,42
33	moloz	17 01 07	4204,71	61816,3	Valea Lupului 1	0	-	33374,88	13600,29
34	deseu lemn	17 02 01	0	0	Valea Lupului 1	0	-	0	0
35	silita	17 02 02	0	0	Valea Lupului 1	0	-	0	0
36	deseu material plastic din demolari	17 02 03	45,38	45,38	Valea Lupului 1	0	-	0	0
37	deseu lemn(traverse)	17 02 04*	71,18	0	-	71,18	VIVANI	0	0
38	deseu asfalt	17 03 02	2,5	2,5	Valea Lupului 1	0	-	1	1
39	deseu cupru	17 04 01	0,96	0,96	Firme specializate	0	-	0	0
40	deseu bronz	17 04 01	0	0	Firme specializate	0	-	0	0
41	aluminiu	17 04 02	200,935	200,935	Firme specializate	0	-	0	0
42	plumb	17 04 03	0	0	Firme specializate	0	-	0	0
43	fier vechi din demolari (netehnologic)	17 04 05	10257,63	10257,63	BFV	0	-	0	0
44	otel inox	17 04 05	795	878,56	Firme specializate	0	-	83,56	0
45	inox	17 04 05	0	0	Firme specializate	0	-	0	0
46	amestecuri metalice (aliaj Cu-Al)(Cu-Zn)	17 04 07	0	0	Firme specializate	0	-	0	0
47	cablu neferos	17 04 11	0	7,5	Firme specializate	0	-	7,5	0
48	pamant excavat cu subst peric.	17 05 03*	0	0	-	0	-	0	0
49	azbest	17 06 01 *	0	0	-	0	-	0	0
50	vata minerala contaminata cu gudron	17 06 03*	888,54	0	-	888,54	VIVANI	0	0
51	vata minerala	17 06 04	226,66	0	Valea Lupului 1	226,66	VIVANI	0	0
52	deseu azbociment	17 06 05*	396,62	0	-	396,62	VIVANI	0	0
53	deseu fier vechi in amestec cu lemn impregnat cu ulei absorbit	17 09 03*	0	0	-	0	-	0	0
54	deseu industrial si refractar	17 09 04	0	0	Valea Lupului 1	0	-	0	0
55	siam stiate tratate ape	19 08 11*	0	0	-	0	-	52,1	52,1
56	nanol tratate apa	19 09 01	19837,5	17966,3	SELCOS	0	-	8472,07	10343,27
57	deseu silita	20 01 02	0	0	Valea Lupului 1	0	-	2,44	2,44
58	deseu lemn -altul decat cel specificat la 20.01.37	20 01 38	0	0	Valea Lupului 1	0	-	0	0
59	deseu echipam. el. si electronice (DEEE)	20 01 35*	0	0	Firme specializate	0	-	0	0
60	deseuri biodegradabile - spalii verzi	20 02 01	0	0	Valea Lupului 1	0	-	0	0
61	deseuri menajere (to)	20 03 01	0	0	-	0	-	0	0
	TOTAL		82306,835	110137,775		3340,5		170738,73	139567,29
	TOTAL 1+2		871937,795	870504,923		5726,616		514722,382	510428,638