Eraring Power Station - EPA Licence 1429
Rocky Point Rd, Dora Creek NSW 2264

# Environmental Monitoring Data March 2023



## Unit 1A Boiler Continuous Emission Monitoring Summary

*EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air*
*Unit 1A Unit Out of Service 3-4, 6, 8-11, 20-21 and 23-24 March 2023*
*$SO_2$ Unit Out of Service 2 March 2023*

| | **NOx** | | | **$SO_2$** | | |
|---|---|---|---|---|---|---|
| | **mg/Nm$^3$ (7% $O_2$)** | | | **mg/Nm$^3$ (7% $O_2$)** | | |
| | **Daily Ave** | **Max Hourly** | **Min Hourly** | **Daily Ave** | **Max Hourly** | **Min Hourly** |
| 1 March | 301 | 355 | 242 | 566 | 618 | 522 |
| 2 March | 354 | 417 | 310 | - | - | - |
| 3 March | - | - | - | - | - | - |
| 4 March | - | - | - | - | - | - |
| 5 March | 393 | 544 | 317 | 680 | 858 | 494 |
| 6 March | - | - | - | - | - | - |
| 7 March | 413 | 532 | 316 | 643 | 758 | 558 |
| 8 March | - | - | - | - | - | - |
| 9 March | - | - | - | - | - | - |
| 10 March | - | - | - | - | - | - |
| 11 March | - | - | - | - | - | - |
| 12 March | 386 | 426 | 322 | 680 | 872 | 512 |
| 13 March | 430 | 486 | 395 | 626 | 886 | 544 |
| 14 March | 393 | 441 | 324 | 524 | 643 | 413 |
| 15 March | 316 | 377 | 272 | 556 | 664 | 500 |
| 16 March | 345 | 423 | 274 | 631 | 774 | 526 |
| 17 March | 363 | 441 | 301 | 665 | 858 | 552 |
| 18 March | 344 | 400 | 279 | 609 | 744 | 512 |
| 19 March | 344 | 428 | 276 | 674 | 799 | 574 |
| 20 March | - | - | - | - | - | - |
| 21 March | - | - | - | - | - | - |
| 22 March | 393 | 533 | 319 | 738 | 897 | 631 |
| 23 March | - | - | - | - | - | - |
| 24 March | - | - | - | - | - | - |
| 25 March | 344 | 449 | 272 | 609 | 754 | 484 |
| 26 March | 363 | 471 | 315 | 675 | 877 | 586 |
| 27 March | 336 | 379 | 290 | 648 | 714 | 595 |
| 28 March | 343 | 387 | 306 | 656 | 694 | 622 |
| 29 March | 342 | 377 | 295 | 676 | 733 | 640 |
| 30 March | 329 | 382 | 293 | 675 | 709 | 647 |
| 31 March | 346 | 407 | 297 | 659 | 732 | 601 |

## Unit 1B Boiler Continuous Emission Monitoring Summary

*EPA Identification no.7 - Air emissions monitoring, Boiler 1 stack discharge to air*
*Unit 1B Unit Out of Service of 6 March 2023.*
*NOx Unit Out of Service 4-5, 7 and 10-17* March *2023.*

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm$^3$ (7% $O_2$) | | | mg/Nm$^3$ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 March | 280 | 355 | 232 | 593 | 617 | 570 |
| 2 March | 339 | 424 | 266 | 620 | 648 | 592 |
| 3 March | 305 | 375 | 265 | 682 | 886 | 613 |
| 4 March | - | - | - | 726 | 898 | 597 |
| 5 March | - | - | - | 678 | 850 | 606 |
| 6 March | - | - | - | - | - | - |
| 7 March | - | - | - | 651 | 775 | 596 |
| 8 March | 419 | 507 | 345 | 637 | 734 | 598 |
| 9 March | 458 | 617 | 364 | 662 | 749 | 605 |
| 10 March | - | - | - | 755 | 991 | 616 |
| 11 March | - | - | - | 709 | 777 | 654 |
| 12 March | - | - | - | 743 | 867 | 631 |
| 13 March | - | - | - | 662 | 880 | 600 |
| 14 March | - | - | - | 595 | 629 | 553 |
| 15 March | - | - | - | 603 | 623 | 578 |
| 16 March | - | - | - | 618 | 692 | 560 |
| 17 March | - | - | - | 607 | 661 | 558 |
| 18 March | 305 | 365 | 252 | 628 | 659 | 590 |
| 19 March | 300 | 343 | 258 | 671 | 697 | 653 |
| 20 March | 303 | 382 | 265 | 688 | 713 | 652 |
| 21 March | 328 | 396 | 271 | 697 | 730 | 659 |
| 22 March | 339 | 456 | 281 | 695 | 742 | 647 |
| 23 March | 321 | 386 | 249 | 754 | 796 | 724 |
| 24 March | 307 | 380 | 249 | 738 | 773 | 689 |
| 25 March | 308 | 353 | 266 | 705 | 793 | 652 |
| 26 March | 294 | 373 | 250 | 672 | 705 | 634 |
| 27 March | 328 | 387 | 273 | 712 | 739 | 667 |
| 28 March | 325 | 364 | 274 | 692 | 723 | 667 |
| 29 March | 321 | 391 | 279 | 717 | 760 | 691 |
| 30 March | 310 | 390 | 248 | 734 | 790 | 687 |
| 31 March | 316 | 376 | 268 | 727 | 794 | 670 |

## *Unit 2A Boiler Continuous Emission Monitoring Summary*

*EPA Identification no. 9 - Air emissions monitoring, Boiler 2 stack discharge to air*
*Unit 2A Out of Service 6 and 20 March 2023*
*NOx Unit Out of Service 5 March 2023.*

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm$^3$ (7% $O_2$) | | | mg/Nm$^3$ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 March | 369 | 495 | 264 | 474 | 511 | 444 |
| 2 March | 388 | 473 | 245 | 509 | 546 | 469 |
| 3 March | 297 | 352 | 250 | 506 | 628 | 449 |
| 4 March | 279 | 364 | 228 | 592 | 718 | 477 |
| 5 March | - | - | - | 565 | 637 | 515 |
| 6 March | - | - | - | - | - | - |
| 7 March | 369 | 431 | 304 | 590 | 653 | 544 |
| 8 March | 368 | 518 | 298 | 567 | 769 | 487 |
| 9 March | 449 | 568 | 352 | 535 | 590 | 492 |
| 10 March | 433 | 516 | 320 | 599 | 778 | 499 |
| 11 March | 366 | 441 | 313 | 604 | 748 | 497 |
| 12 March | 344 | 397 | 275 | 637 | 745 | 548 |
| 13 March | 351 | 410 | 306 | 575 | 749 | 486 |
| 14 March | 357 | 426 | 296 | 488 | 513 | 458 |
| 15 March | 373 | 506 | 282 | 488 | 513 | 461 |
| 16 March | 423 | 574 | 283 | 525 | 560 | 481 |
| 17 March | 364 | 408 | 325 | 495 | 532 | 466 |
| 18 March | 433 | 527 | 278 | 537 | 565 | 510 |
| 19 March | 375 | 529 | 299 | 557 | 576 | 538 |
| 20 March | - | - | - | - | - | - |
| 21 March | 346 | 410 | 309 | 543 | 595 | 512 |
| 22 March | 359 | 417 | 295 | 561 | 596 | 513 |
| 23 March | 349 | 425 | 309 | 606 | 639 | 573 |
| 24 March | 326 | 381 | 271 | 604 | 674 | 575 |
| 25 March | 327 | 382 | 276 | 565 | 654 | 475 |
| 26 March | 340 | 383 | 290 | 522 | 553 | 483 |
| 27 March | 341 | 424 | 257 | 569 | 597 | 543 |
| 28 March | 373 | 444 | 315 | 568 | 620 | 533 |
| 29 March | 362 | 425 | 314 | 576 | 597 | 554 |
| 30 March | 333 | 379 | 268 | 586 | 634 | 537 |
| 31 March | 376 | 427 | 308 | 565 | 619 | 531 |

## -Unit 2B Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 10 - Air emissions monitoring, Boiler 2 stack discharge to air*
*Unit 2B Unit Out of Service 20 March 2023*

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm$^3$ (7% $O_2$) | | | mg/Nm$^3$ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 March | 280 | 379 | 178 | 379 | 462 | 280 |
| 2 March | 326 | 419 | 184 | 431 | 492 | 296 |
| 3 March | 263 | 319 | 198 | 407 | 531 | 311 |
| 4 March | 244 | 309 | 183 | 499 | 628 | 401 |
| 5 March | 319 | 409 | 193 | 492 | 594 | 396 |
| 6 March | 343 | 494 | 219 | 482 | 623 | 337 |
| 7 March | 253 | 329 | 200 | 465 | 631 | 339 |
| 8 March | 293 | 429 | 199 | 490 | 738 | 335 |
| 9 March | 369 | 477 | 277 | 442 | 504 | 343 |
| 10 March | 324 | 389 | 204 | 493 | 645 | 333 |
| 11 March | 295 | 375 | 218 | 509 | 687 | 326 |
| 12 March | 269 | 333 | 195 | 508 | 613 | 352 |
| 13 March | 301 | 392 | 225 | 485 | 685 | 347 |
| 14 March | 296 | 396 | 222 | 403 | 481 | 305 |
| 15 March | 297 | 496 | 201 | 392 | 508 | 304 |
| 16 March | 289 | 426 | 202 | 410 | 529 | 316 |
| 17 March | 256 | 357 | 205 | 360 | 423 | 298 |
| 18 March | 353 | 516 | 187 | 431 | 592 | 306 |
| 19 March | 289 | 462 | 212 | 426 | 517 | 351 |
| 20 March | - | - | - | - | - | - |
| 21 March | 262 | 314 | 204 | 420 | 542 | 308 |
| 22 March | 262 | 330 | 201 | 424 | 490 | 338 |
| 23 March | 224 | 297 | 190 | 417 | 563 | 329 |
| 24 March | 252 | 338 | 178 | 470 | 611 | 316 |
| 25 March | 261 | 307 | 167 | 477 | 627 | 307 |
| 26 March | 269 | 346 | 168 | 421 | 519 | 273 |
| 27 March | 234 | 373 | 202 | 396 | 523 | 279 |
| 28 March | 228 | 322 | 184 | 390 | 532 | 268 |
| 29 March | 231 | 305 | 185 | 412 | 541 | 302 |
| 30 March | 250 | 343 | 152 | 471 | 651 | 282 |
| 31 March | 316 | 376 | 240 | 484 | 652 | 318 |

## Unit 3A Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 11 - Air emissions monitoring, Boiler 3 stack discharge to air*
*Unit 3A Out of service 1, 3, 8, 16, and 22-27 March 2023*
*NOx Unit Out of Service 5-6, 11-12, 14-15 and 17 March 2023*

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm$^3$ (7% $O_2$) | | | mg/Nm$^3$ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 March | - | - | - | - | - | - |
| 2 March | 416 | 470 | 358 | 639 | 670 | 608 |
| 3 March | - | - | - | - | - | - |
| 4 March | 329 | 364 | 297 | 690 | 899 | 601 |
| 5 March | - | - | - | 723 | 840 | 648 |
| 6 March | - | - | - | 732 | 864 | 645 |
| 7 March | 360 | 403 | 287 | 684 | 778 | 639 |
| 8 March | - | - | - | - | - | - |
| 9 March | 584 | 788 | 370 | 407 | 690 | 308 |
| 10 March | 433 | 588 | 340 | 611 | 876 | 326 |
| 11 March | - | - | - | 730 | 852 | 598 |
| 12 March | - | - | - | 718 | 849 | 626 |
| 13 March | 350 | 392 | 292 | 680 | 862 | 595 |
| 14 March | - | - | - | 585 | 621 | 534 |
| 15 March | - | - | - | 605 | 628 | 541 |
| 16 March | - | - | - | - | - | - |
| 17 March | - | - | - | 644 | 709 | 594 |
| 18 March | 373 | 434 | 306 | 672 | 725 | 610 |
| 19 March | 374 | 458 | 279 | 706 | 741 | 654 |
| 20 March | 322 | 386 | 279 | 693 | 727 | 637 |
| 21 March | 355 | 433 | 295 | 667 | 679 | 647 |
| 22 March | - | - | - | - | - | - |
| 23 March | - | - | - | - | - | - |
| 24 March | - | - | - | - | - | - |
| 25 March | - | - | - | - | - | - |
| 26 March | - | - | - | - | - | - |
| 27 March | - | - | - | - | - | - |
| 28 March | 355 | 413 | 296 | 697 | 759 | 655 |
| 29 March | 337 | 385 | 303 | 687 | 712 | 676 |
| 30 March | 343 | 420 | 269 | 720 | 773 | 679 |
| 31 March | 351 | 436 | 277 | 707 | 760 | 667 |

## Unit 3B Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 12 - Air emissions monitoring, Boiler 3 stack discharge to air*
*Unit 3B Out of Service 16-17, 24 and 30 March 2023*
*NOx Unit Out of Service 13 March 2023*

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | $mg/Nm^3$ (7% $O_2$) | | | $mg/Nm^3$ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 March | 326 | 389 | 262 | 580 | 608 | 557 |
| 2 March | 387 | 480 | 325 | 596 | 611 | 579 |
| 3 March | 333 | 376 | 297 | 625 | 823 | 571 |
| 4 March | 314 | 354 | 294 | 648 | 796 | 568 |
| 5 March | 370 | 425 | 299 | 677 | 784 | 617 |
| 6 March | 385 | 483 | 273 | 703 | 807 | 635 |
| 7 March | 350 | 390 | 286 | 673 | 744 | 625 |
| 8 March | 344 | 393 | 300 | 634 | 671 | 583 |
| 9 March | 365 | 434 | 253 | 615 | 657 | 581 |
| 10 March | 354 | 488 | 294 | 705 | 874 | 573 |
| 11 March | 336 | 358 | 312 | 693 | 793 | 578 |
| 12 March | 343 | 377 | 286 | 690 | 804 | 591 |
| 13 March | - | - | - | 658 | 835 | 587 |
| 14 March | 341 | 442 | 284 | 574 | 603 | 527 |
| 15 March | 366 | 462 | 293 | 600 | 641 | 561 |
| 16 March | - | - | - | - | - | - |
| 17 March | - | - | - | - | - | - |
| 18 March | 353 | 423 | 296 | 623 | 652 | 560 |
| 19 March | 353 | 400 | 273 | 665 | 683 | 639 |
| 20 March | 306 | 408 | 259 | 674 | 713 | 634 |
| 21 March | 365 | 483 | 289 | 661 | 672 | 643 |
| 22 March | 360 | 473 | 293 | 679 | 714 | 624 |
| 23 March | 372 | 460 | 311 | 732 | 769 | 707 |
| 24 March | - | - | - | - | - | - |
| 25 March | 330 | 448 | 267 | 670 | 739 | 582 |
| 26 March | 315 | 397 | 272 | 635 | 666 | 574 |
| 27 March | 353 | 421 | 287 | 695 | 727 | 665 |
| 28 March | 373 | 428 | 314 | 695 | 746 | 652 |
| 29 March | 365 | 421 | 319 | 686 | 710 | 670 |
| 30 March | - | - | - | - | - | - |
| 31 March | 362 | 490 | 294 | 692 | 733 | 657 |

## Unit 4A Boiler Continuous Emission Monitoring Summary

*EPA Identification no. 13 - Air emissions monitoring, Boiler 4 stack discharge to air*
*Unit 4A Out of Service 15-18 March 2023*
*NOx Unit Out of Service 10-11 March 2023*
*$SO_2$ Unit Out of service 13-14 March 2023*

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm³ (7% $O_2$) | | | mg/Nm³ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 March | 403 | 440 | 332 | 551 | 585 | 525 |
| 2 March | 457 | 551 | 371 | 579 | 604 | 543 |
| 3 March | 405 | 487 | 318 | 584 | 654 | 534 |
| 4 March | 365 | 419 | 316 | 684 | 834 | 549 |
| 5 March | 388 | 447 | 208 | 652 | 774 | 588 |
| 6 March | 412 | 529 | 336 | 658 | 833 | 588 |
| 7 March | 503 | 654 | 410 | 616 | 740 | 549 |
| 8 March | 435 | 635 | 334 | 619 | 758 | 563 |
| 9 March | 404 | 463 | 336 | 604 | 673 | 550 |
| 10 March | - | - | - | 696 | 902 | 551 |
| 11 March | - | - | - | 661 | 807 | 539 |
| 12 March | 403 | 463 | 281 | 660 | 729 | 565 |
| 13 March | 386 | 473 | 312 | - | - | - |
| 14 March | 371 | 457 | 278 | - | - | - |
| 15 March | - | - | - | - | - | - |
| 16 March | - | - | - | - | - | - |
| 17 March | - | - | - | - | - | - |
| 18 March | - | - | - | - | - | - |
| 19 March | 355 | 428 | 276 | 615 | 650 | 578 |
| 20 March | 329 | 392 | 281 | 629 | 675 | 546 |
| 21 March | 356 | 408 | 295 | 604 | 643 | 555 |
| 22 March | 391 | 439 | 336 | 643 | 697 | 557 |
| 23 March | 354 | 409 | 298 | 690 | 720 | 661 |
| 24 March | 336 | 382 | 285 | 693 | 717 | 612 |
| 25 March | 361 | 427 | 301 | 644 | 704 | 565 |
| 26 March | 341 | 396 | 238 | 597 | 629 | 542 |
| 27 March | 330 | 376 | 234 | 643 | 681 | 613 |
| 28 March | 365 | 418 | 307 | 626 | 657 | 565 |
| 29 March | 346 | 395 | 267 | 655 | 687 | 587 |
| 30 March | 347 | 400 | 273 | 665 | 700 | 580 |
| 31 March | 319 | 357 | 277 | 635 | 666 | 590 |

**Unit 4B Boiler Continuous Emission Monitoring Summary**

*EPA Identification no. 14 – Air emissions monitoring, Boiler 4 stack discharge to air*
*Unit 4B Out of Service 29 March 2023*

| | NOx | | | $SO_2$ | | |
|---|---|---|---|---|---|---|
| | mg/Nm$^3$ (7% $O_2$) | | | mg/Nm$^3$ (7% $O_2$) | | |
| | Daily Ave | Max Hourly | Min Hourly | Daily Ave | Max Hourly | Min Hourly |
| 1 March | 425 | 512 | 310 | 576 | 609 | 484 |
| 2 March | 496 | 633 | 374 | 613 | 661 | 507 |
| 3 March | 416 | 515 | 321 | 596 | 681 | 471 |
| 4 March | 379 | 443 | 325 | 702 | 822 | 551 |
| 5 March | 390 | 454 | 361 | 656 | 788 | 519 |
| 6 March | 444 | 575 | 349 | 689 | 894 | 564 |
| 7 March | 522 | 650 | 399 | 631 | 807 | 459 |
| 8 March | 420 | 505 | 340 | 631 | 783 | 508 |
| 9 March | 391 | 542 | 338 | 610 | 712 | 460 |
| 10 March | 403 | 571 | 343 | 731 | 993 | 582 |
| 11 March | 435 | 588 | 357 | 695 | 828 | 530 |
| 12 March | 400 | 502 | 313 | 697 | 776 | 554 |
| 13 March | 364 | 458 | 295 | 662 | 827 | 585 |
| 14 March | 358 | 522 | 270 | 535 | 583 | 435 |
| 15 March | 380 | 472 | 307 | 554 | 618 | 412 |
| 16 March | 371 | 483 | 276 | 577 | 649 | 441 |
| 17 March | 395 | 479 | 248 | 588 | 637 | 508 |
| 18 March | 358 | 476 | 259 | 599 | 665 | 500 |
| 19 March | 367 | 467 | 264 | 632 | 680 | 537 |
| 20 March | 293 | 351 | 252 | 668 | 709 | 532 |
| 21 March | 349 | 408 | 281 | 641 | 699 | 560 |
| 22 March | 367 | 422 | 308 | 672 | 731 | 511 |
| 23 March | 352 | 389 | 302 | 715 | 790 | 458 |
| 24 March | 331 | 372 | 282 | 706 | 790 | 417 |
| 25 March | 392 | 474 | 320 | 637 | 736 | 492 |
| 26 March | 357 | 443 | 292 | 610 | 665 | 487 |
| 27 March | 333 | 425 | 246 | 679 | 723 | 593 |
| 28 March | 371 | 426 | 298 | 672 | 715 | 523 |
| 29 March | - | - | - | - | - | - |
| 30 March | 355 | 428 | 242 | 709 | 754 | 563 |
| 31 March | 339 | 418 | 290 | 696 | 730 | 578 |

## Unit 1 Boiler Emission Test Results

*EPA Identification no. 3 - Air emissions monitoring, Boiler 1 stack discharge to air*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Chlorine | 0.014 | mg/m$^3$ | 20 | 20/12/2022 |
| Fluorine | 9.8 | mg/m$^3$ | 30 | 20/12/2022 |
| Hydrogen chloride | 13 | mg/m$^3$ | 50 | 20/12/2022 |
| Solid Particles | 1.7 | mg/m$^3$ | 50 | 20/12/2022 |
| Sulfuric acid mist and sulfur trioxide (as SO3) | 4.7 | mg/m$^3$ | 100 | 20/12/2022 |
| Volatile organic compounds as n-propane equivalent | <0.01 | mg/m$^3$ | 10 | 20/12/2022 |
| | | | | |
| Cadmium | <0.0002 | mg/m$^3$ | 0.2 | 28/02/2023 |
| Mercury | <0.0004 | mg/m$^3$ | 0.05 | 28/02/2023 |
| Solid Particles | 1.7 | mg/m$^3$ | 50 | 28/02/2023 |
| Type 1 and 2 substances in Aggregate | <0.03 | mg/m$^3$ | 0.75 | 28/02/2023 |

*EPA Identification no. 7 - Air emissions monitoring, Boiler 1 Exhaust Duct A*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Flow Rate | 210 | m3/sec | | 28/02/2023 |
| Moisture | 5.5 | % | | 28/02/2023 |
| Oxygen | 9.3 | % | | 20/12/2022 |
| Solid Particles | 3.1 | mg/m3 | | 20/12/2022 |
| Temperature | 118 | degC | | 20/12/2022 |
| Carbon dioxide | 10.5 | % | | 20/12/2022 |
| Chlorine | 0.014 | mg/m3 | | 20/12/2022 |
| Fluorine | 9.8 | mg/m3 | | 20/12/2022 |
| Hydrogen chloride | 13 | mg/m3 | | 20/12/2022 |
| Sulfuric acid mist and sulfur trioxide (as SO3) | 4.7 | mg/m3 | | 20/12/2022 |
| Volatile organic compounds as n-propane equivalent | <0.01 | mg/m3 | | 20/12/2022 |
| | | | | |
| Cadmium | <0.0002 | mg/m3 | | 28/02/2023 |
| Flow Rate | 230 | m3/sec | | 28/02/2023 |
| Mercury | 0.00044 | mg/m3 | | 28/02/2023 |
| Moisture | 5.7 | % | | 28/02/2023 |
| Oxygen | 8.3 | % | | 28/02/2023 |
| Solid Particles | 1.5 | mg/m3 | | 28/02/2023 |
| Temperature | 110 | degC | | 28/02/2023 |
| Type 1 and Type 2 substances in Aggregate | <0.012 | mg/m3 | | 28/02/2023 |
| Carbon dioxide | 10.9 | % | | 28/02/2023 |

*EPA Identification no. 8 - Air emissions monitoring, Boiler 1 Exhaust Duct B*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Flow Rate | 220 | m3/sec | | 21/12/2022 |
| Moisture | 5.0 | % | | 21/12/2022 |
| Oxygen | 8.8 | % | | 21/12/2022 |
| Solid Particles | 1.5 | mg/m3 | | 21/12/2022 |
| Temperature | 120 | degC | | 21/12/2022 |
| Carbon dioxide | 10.9 | % | | 21/12/2022 |
| | | | | |
| Cadmium | <0.0003 | mg/m3 | | 28/02/2023 |
| Flow Rate | 220 | m3/sec | | 28/02/2023 |
| Mercury | <0.0003 | mg/m3 | | 28/02/2023 |
| Moisture | 5.0 | % | | 28/02/2023 |
| Oxygen | 8.8 | % | | 28/02/2023 |
| Solid Particles | 1.9 | mg/m3 | | 28/02/2023 |
| Temperature | 109 | degC | | 28/02/2023 |
| Type 1 and Type 2 substances in Aggregate | <0.041 | mg/m3 | | 28/02/2023 |
| Carbon dioxide | 11.3 | % | | 28/02/2023 |

## Unit 2 Boiler Emission Test Results

*EPA Identification no. 4 - Air emissions monitoring, Boiler 2 stack discharge to air*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Chlorine | <0.02 | mg/m$^3$ | 20 | 23/11/2022 |
| Fluorine | 17 | mg/m$^3$ | 30 | 23/11/2022 |
| Hydrogen chloride | 16 | mg/m$^3$ | 50 | 23/11/2022 |
| Solid Particles | 6.9 | mg/m$^3$ | 50 | 23/11/2022 |
| Sulfuric acid mist and sulfur trioxide (as SO3) | 1.9 | mg/m$^3$ | 100 | 23/11/2022 |
| Volatile organic compounds as n-propane equivalent | 0.033 | mg/m$^3$ | 10 | 23/11/2022 |
| | | | | |
| Cadmium | <0.0003 | mg/m$^3$ | 0.2 | 28/02/2023 |
| Mercury | 0.0024 | mg/m$^3$ | 0.05 | 28/02/2023 |
| Solid Particles | 16 | mg/m3 | 50 | 28/02/2023 |
| Type 1 and 2 substances in Aggregate | <0.06 | mg/m3 | 0.75 | 28/02/2023 |

*EPA Identification no. 9 - Air emissions monitoring, Boiler 2 Exhaust Duct A*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Flow Rate | 230 | m3/sec | | 23/11/2022 |
| Moisture | 5.1 | % | | 23/11/2022 |
| Oxygen | 8.9 | % | | 23/11/2022 |
| Solid Particles | 11 | mg/m3 | | 23/11/2022 |
| Temperature | 122 | degC | | 23/11/2022 |
| Carbon dioxide | 10.8 | % | | 23/11/2022 |
| Chlorine | <0.02 | mg/m3 | | 23/11/2022 |
| Fluorine | 17 | mg/m3 | | 23/11/2022 |
| Hydrogen chloride | 16 | mg/m3 | | 23/11/2022 |
| Sulfuric acid mist and sulfur trioxide (as SO3) | 1.9 | mg/m3 | | 23/11/2022 |
| Volatile organic compounds as n-propane equivalent | 0.033 | mg/m3 | | 23/11/2022 |
| | | | | |
| Cadmium | <0.0003 | mg/m3 | | 28/02/2023 |
| Flow Rate | 240 | m3/sec | | 28/02/2023 |
| Mercury | 0.0023 | mg/m3 | | 28/02/2023 |
| Moisture | 5.8 | % | | 28/02/2023 |
| Oxygen | 10.3 | % | | 28/02/2023 |
| Solid Particles | 29 | mg/m3 | | 28/02/2023 |
| Temperature | 124 | degC | | 28/02/2023 |
| Type 1 and Type 2 substances in Aggregate | <0.11 | mg/m3 | | 28/02/2023 |
| Carbon dioxide | 9.5 | % | | 28/02/2023 |

*EPA Identification no. 10 - Air emissions monitoring, Boiler 2 Exhaust Duct B*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Flow Rate | 210 | m3/sec | | 23/11/2022 |
| Moisture | 5.2 | % | | 23/11/2022 |
| Oxygen | 9.3 | % | | 23/11/2022 |
| Solid Particles | 2.5 | mg/m3 | | 23/11/2022 |
| Temperature | 107 | degC | | 23/11/2022 |
| Carbon dioxide | 11.2 | % | | 23/11/2022 |
| | | | | |
| Cadmium | <0.0002 | mg/m3 | | 28/02/2023 |
| Flow Rate | 220 | m3/sec | | 28/02/2023 |
| Mercury | 0.0025 | mg/m3 | | 28/02/2023 |
| Moisture | 5.9 | % | | 28/02/2023 |
| Oxygen | 9.0 | % | | 28/02/2023 |
| Solid Particles | 2.4 | mg/m3 | | 28/02/2023 |
| Temperature | 118 | degC | | 28/02/2023 |
| Type 1 and Type 2 substances in Aggregate | <0.014 | mg/m3 | | 28/02/2023 |
| Carbon dioxide | 10.3 | % | | 28/02/2023 |

## Unit 3 Boiler Emission Test Results

*EPA Identification no. 5 - Air emissions monitoring, Boiler 3 stack discharge to air*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Chlorine | <0.02 | mg/m3 | 20 | 22/11/2022 |
| Fluorine | 15 | mg/m3 | 30 | 22/11/2022 |
| Hydrogen chloride | 9.4 | mg/m3 | 50 | 22/11/2022 |
| Solid Particles | 2 | mg/m3 | 50 | 22/11/2022 |
| Sulfuric acid mist and sulfur trioxide (as SO3) | 1.7 | mg/m3 | 100 | 22/11/2022 |
| Volatile organic compounds as n-propane equivalent | <0.04 | mg/m3 | 10 | 22/11/2022 |
| | | | | |
| Cadmium | <0.0003 | mg/m3 | 0.2 | 1/03/2023 |
| Mercury | 0.00058 | mg/m3 | 0.05 | 1/03/2023 |
| Solid Particles | 4 | mg/m3 | 50 | 1/03/2023 |
| Type 1 and 2 substances in Aggregate | <0.03 | mg/m3 | 0.75 | 1/03/2023 |

*EPA Identification no. 11 - Air emissions monitoring, Boiler 3 Exhaust Duct A*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Flow Rate | 200 | m3/sec | | 22/11/2022 |
| Moisture | 5.6 | % | | 22/11/2022 |
| Oxygen | 8 | % | | 22/11/2022 |
| Solid Particles | 1.6 | mg/m3 | | 22/11/2022 |
| Temperature | 110 | degC | | 22/11/2022 |
| Carbon dioxide | 12.2 | % | | 22/11/2022 |
| Chlorine | <0.02 | mg/m3 | | 22/11/2022 |
| Fluorine | 15 | mg/m3 | | 22/11/2022 |
| Hydrogen chloride | 9.4 | mg/m3 | | 22/11/2022 |
| Sulfuric acid mist and sulfur trioxide (as SO3) | 1.7 | mg/m3 | | 22/11/2022 |
| Volatile organic compounds as n-propane equivalent | <0.04 | mg/m3 | | 22/11/2022 |
| | | | | |
| Cadmium | <0.0003 | mg/m3 | | 1/03/2023 |
| Flow Rate | 320 | m3/sec | | 1/03/2023 |
| Mercury | 0.00052 | mg/m3 | | 1/03/2023 |
| Moisture | 3.9 | % | | 1/03/2023 |
| Oxygen | 12.2 | % | | 1/03/2023 |
| Solid Particles | 3 | mg/m3 | | 1/03/2023 |
| Temperature | 92 | degC | | 1/03/2023 |
| Type 1 and Type 2 substances in Aggregate | <0.017 | mg/m3 | | 1/03/2023 |
| Carbon dioxide | 7.6 | % | | 1/03/2023 |

*EPA Identification no. 12 - Air emissions monitoring, Boiler 3 Exhaust Duct B*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Flow Rate | 200 | m3/sec | | 22/11/2022 |
| Moisture | 5.1 | % | | 22/11/2022 |
| Oxygen | 8.6 | % | | 22/11/2022 |
| Solid Particles | 2.4 | mg/m3 | | 22/11/2022 |
| Temperature | 126 | degC | | 22/11/2022 |
| Carbon dioxide | 11 | % | | 22/11/2022 |
| | | | | |
| Cadmium | <0.0003 | mg/m3 | | 1/03/2023 |
| Flow Rate | 240 | m3/sec | | 1/03/2023 |
| Mercury | 0.00065 | mg/m3 | | 1/03/2023 |
| Moisture | 5.6 | % | | 1/03/2023 |
| Oxygen | 9.9 | % | | 1/03/2023 |
| Solid Particles | 5.3 | mg/m3 | | 1/03/2023 |
| Temperature | 113 | degC | | 1/03/2023 |
| Type 1 and Type 2 substances in Aggregate | <0.052 | mg/m3 | | 1/03/2023 |
| Carbon dioxide | 10.1 | % | | 1/03/2023 |

## Unit 4 Boiler Emission Test Results

*EPA Identification no. 6 - Air emissions monitoring, Boiler 4 stack discharge to air*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Chlorine | <0.02 | mg/m3 | 20 | 24/11/2022 |
| Fluorine | 14 | mg/m3 | 30 | 24/11/2022 |
| Hydrogen chloride | 18 | mg/m3 | 50 | 24/11/2022 |
| Solid Particles | 2.2 | mg/m3 | 50 | 24/11/2022 |
| Sulfuric acid mist and sulfur trioxide (as SO3) | 2.9 | mg/m3 | 100 | 24/11/2022 |
| Volatile organic compounds as n-propane equivalent | <0.09 | mg/m3 | 10 | 24/11/2022 |
| | | | | |
| Cadmium | <0.0002 | mg/m3 | 0.2 | 1/03/2023 |
| Mercury | 0.0016 | mg/m3 | 0.05 | 1/03/2023 |
| Solid Particles | 5.4 | mg/m3 | 50 | 1/03/2023 |
| Type 1 and 2 substances in Aggregate | <0.02 | mg/m3 | 0.75 | 1/03/2023 |

*EPA Identification no. 13 - Air emissions monitoring, Boiler 4 Exhaust Duct A*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Flow Rate | 220 | $m^3$/sec | | 24/11/2022 |
| Moisture | 5.3 | % | | 24/11/2022 |
| Oxygen | 8.9 | % | | 24/11/2022 |
| Solid Particles | 2.4 | mg/$m^3$ | | 24/11/2022 |
| Temperature | 111 | degC | | 24/11/2022 |
| Carbon dioxide | 11.9 | % | | 24/11/2022 |
| Chlorine | <0.02 | mg/$m^3$ | | 24/11/2022 |
| Fluorine | 14 | mg/$m^3$ | | 24/11/2022 |
| Hydrogen chloride | 18 | mg/$m^3$ | | 24/11/2022 |
| Sulfuric acid mist and sulfur trioxide (as SO3) | 2.9 | mg/$m^3$ | | 24/11/2022 |
| Volatile organic compounds as n-propane equivalent | <0.09 | mg/$m^3$ | | 24/11/2022 |
| | | | | |
| Cadmium | <0.0003 | mg/$m^3$ | | 1/03/2023 |
| Flow Rate | 240 | $m^3$/sec | | 1/03/2023 |
| Mercury | 0.0023 | mg/$m^3$ | | 1/03/2023 |
| Moisture | 5.1 | % | | 1/03/2023 |
| Oxygen | 11 | % | | 1/03/2023 |
| Solid Particles | 5.7 | mg/$m^3$ | | 1/03/2023 |
| Temperature | 114 | degC | | 1/03/2023 |
| Type 1 and Type 2 substances in Aggregate | <0.034 | mg/$m^3$ | | 1/03/2023 |
| Carbon dioxide | 8.9 | % | | 1/03/2023 |

*EPA Identification no. 14 - Air emissions monitoring, Boiler 4 Exhaust Duct B*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Flow Rate | 180 | $m^3$/sec | | 24/11/2022 |
| Moisture | 5.2 | % | | 24/11/2022 |
| Oxygen | 9.5 | % | | 24/11/2022 |
| Solid Particles | 1.9 | mg/$m^3$ | | 24/11/2022 |
| Temperature | 107 | degC | | 24/11/2022 |
| Carbon dioxide | 10.3 | % | | 24/11/2022 |
| | | | | |
| Cadmium | <0.0002 | mg/$m^3$ | | 29/07/2022 |
| Flow Rate | 260 | $m^3$/sec | | 29/07/2022 |
| Mercury | 0.00099 | mg/$m^3$ | | 29/07/2022 |
| Moisture | 4.7 | % | | 29/07/2022 |
| Oxygen | 8.5 | % | | 29/07/2022 |
| Solid Particles | 5.2 | mg/$m^3$ | | 29/07/2022 |
| Temperature | 117 | degC | | 29/07/2022 |
| Type 1 and Type 2 substances in Aggregate | <0.015 | mg/$m^3$ | | 29/07/2022 |
| Carbon dioxide | 11 | % | | 29/07/2022 |

## Eraring Depositional Dust Gauges

*EPA Identification no.17, 18, 19 & 20 - Depositional dust monitoring within 1km of the coal handling operations*

| Eraring Identification | EPA Identification No | Deposited Matter | | |
|---|---|---|---|---|
| | | g/m2/month | | |
| | | Ash | Combustible | Insoluble |
| E2 | 17 | 0.5 | 0.3 | 0.8 |
| E4 | 18 | 0.6 | 0.7 | 1.3 |
| E6 | 19 | 0.5 | 0.5 | 1.0 |
| U6 | 20 | 0.5 | <0.1 | 0.5 |

## Water Quality - Lake Monitoring LM10

*EPA Identification no. 27 - The waters of Lake Macquarie located midway between cooling water inlet and Hungary Point*

| Air Temp | Depth | Water Temp | pH | Salinity | Dissolved Oxygen | | Secchi |
|---|---|---|---|---|---|---|---|
| $^0$C | m | degC | pH unit | ppt | % | mg/L | m |
| 26.74 | 0.50 | 27.14 | 8.07 | 35.1 | 110.4 | 6.97 | 1.75 |

| Name | Reading | Units | Date |
|---|---|---|---|
| Aluminium | 0.135 | mg/L | 2/03/2023 |
| Ammonia | <0.01 | mg/L | 2/03/2023 |
| Arsenic III | <0.004 | mg/ | 2/03/2023 |
| Arsenic V | <0.004 | mg/L | 2/03/2023 |
| Cadmium | <0.0002 | mg/L | 2/03/2023 |
| Chromium (Trivalent) | <0.001 | mg/L | 2/03/2023 |
| Chromium (VI) Compounds | <0.001 | mg/L | 2/03/2023 |
| Copper | 0.002 | mg/L | 2/03/2023 |
| Iron | 0.157 | mg/L | 2/03/2023 |
| Lead | <0.0002 | mg/L | 2/03/2023 |
| Manganese | 0.0076 | mg/L | 2/03/2023 |
| Nickel | <0.0005 | mg/L | 2/03/2023 |
| pH | 8.18 | pH units | 2/03/2023 |
| Selenium | <0.002 | mg/L | 2/03/2023 |
| Total Suspended Solids | 54 | mg/L | 2/03/2023 |
| Vanadium | 0.0027 | mg/L | 2/03/2023 |
| Zinc | <0.005 | mg/L | 2/03/2023 |

## Water Quality - Lake Monitoring LM12

*EPA Identification no. 29 - The waters of Lake Macquarie located at the Eraring/Vales Point mixing zone off Fishery Point*

| Air Temp | Depth | Water Temp | pH | Salinity | Dissolved Oxygen | | Secchi |
|---|---|---|---|---|---|---|---|
| $^0$C | m | degC | pH unit | ppt | % | mg/L | m |
| 24.26 | 0.50 | 27.01 | 8.08 | 35.4 | 90.0 | 5.72 | - |

| Name | Reading | Units | Date |
|---|---|---|---|
| Aluminium | <0.005 | mg/L | 2/03/2023 |
| Ammonia | <0.01 | mg/L | 2/03/2023 |
| Arsenic III | <0.004 | mg/L | 2/03/2023 |
| Arsenic V | <0.004 | mg/L | 2/03/2023 |
| Cadmium | <0.0002 | mg/L | 2/03/2023 |
| Chromium (Trivalent) | <0.001 | mg/L | 2/03/2023 |
| Chromium (VI) Compounds | <0.001 | mg/L | 2/03/2023 |
| Copper | 0.001 | mg/L | 2/03/2023 |
| Iron | <0.005 | mg/L | 2/03/2023 |
| Lead | <0.0002 | mg/L | 2/03/2023 |
| Manganese | 0.0015 | mg/L | 2/03/2023 |
| Nickel | 0.0007 | mg/L | 2/03/2023 |
| pH | 8.18 | pH units | 2/03/2023 |
| Selenium | <0.002 | mg/L | 2/03/2023 |
| Total Suspended Solids | 44 | mg/L | 2/03/2023 |
| Vanadium | 0.0027 | mg/L | 2/03/2023 |
| Zinc | <0.005 | mg/L | 2/03/2023 |

## Water Quality - Lake Monitoring LM4

*EPA Identification no. 30 - The northern waters of Lake Macquarie east off Lake Macquarie Yacht Club*

| Air Temp | Depth | Water Temp | pH | Salinity | Dissolved Oxygen | | Secchi |
|---|---|---|---|---|---|---|---|
| $^0$C | m | degC | pH unit | ppt | % | mg/L | m |
| 24.36 | 0.50 | 25.42 | 8.15 | 34.1 | 96.6 | 6.98 | 3.75 |

| Name | Reading | Units | Date |
|---|---|---|---|
| Aluminium | 0.022 | mg/L | 2/03/2023 |
| Ammonia | <0.01 | mg/L | 2/03/2023 |
| Arsenic III | <0.004 | mg/L | 2/03/2023 |
| Arsenic V | <0.004 | mg/L | 2/03/2023 |
| Cadmium | <0.0002 | mg/L | 2/03/2023 |
| Chromium (Trivalent) | <0.001 | mg/L | 2/03/2023 |
| Chromium (VI) Compounds | <0.001 | mg/L | 2/03/2023 |
| Copper | <0.001 | mg/L | 2/03/2023 |
| Iron | 0.014 | mg/L | 2/03/2023 |
| Lead | 0.0002 | mg/L | 2/03/2023 |
| Manganese | 0.0037 | mg/L | 2/03/2023 |
| Nickel | <0.0005 | mg/L | 2/03/2023 |
| pH | 8.2 | pH units | 2/03/2023 |
| Selenium | <0.002 | mg/L | 2/03/2023 |
| Total Suspended Solids | 38 | mg/L | 2/03/2023 |
| Vanadium | 0.0019 | mg/L | 2/03/2023 |
| Zinc | <0.005 | mg/L | 2/03/2023 |

## Water Quality - Lake Monitoring LM7

*EPA Identification no. 28 - The waters of Lake Macquarie located off old Wangi power station inlet point in Myuna Bay*

| Air Temp | Depth | Water Temp | pH | Salinity | Dissolved Oxygen | | Secchi |
|---|---|---|---|---|---|---|---|
| $^0$C | m | degC | pH unit | ppt | % | mg/L | m |
| 25.26 | 0.5 | 29.41 | 8.05 | 34.5 | 104.6 | 6.48 | 2.25 |

| Name | Reading | Units | Date |
|---|---|---|---|
| Aluminium | 0.005 | mg/L | 2/03/2023 |
| Ammonia | <0.01 | mg/L | 2/03/2023 |
| Arsenic III | <0.004 | mg/L | 2/03/2023 |
| Arsenic V | <0.004 | mg/L | 2/03/2023 |
| Cadmium | <0.0002 | mg/L | 2/03/2023 |
| Chromium (Trivalent) | <0.001 | mg/L | 2/03/2023 |
| Chromium (VI) Compounds | <0.001 | mg/L | 2/03/2023 |
| Copper | 0.001 | mg/L | 2/03/2023 |
| Iron | <0.005 | mg/L | 2/03/2023 |
| Lead | <0.0002 | mg/L | 2/03/2023 |
| Manganese | 0.0028 | mg/L | 2/03/2023 |
| Nickel | 0.0006 | mg/L | 2/03/2023 |
| pH | 8.17 | pH units | 2/03/2023 |
| Selenium | <0.002 | mg/L | 2/03/2023 |
| Total Suspended Solids | 46 | mg/L | 2/03/2023 |
| Vanadium | 0.0022 | mg/L | 2/03/2023 |
| Zinc | <0.005 | mg/L | 2/03/2023 |

## Eraring Ash Dam Effluent Quality Monitoring

*EPA Identification no. 22 - Discharge point below siphon pond weir at Ash Dam*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Aluminium | 0.108 | mg/L | - | 2/03/2023 |
| Ammonia | 0.64 | mg/L | - | 2/03/2023 |
| Arsenic III | 0.0005 | mg/L | - | 2/03/2023 |
| Arsenic V | 0.0054 | mg/L | - | 2/03/2023 |
| Cadmium | 0.00007 | mg/L | - | 2/03/2023 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 2/03/2023 |
| Chromium (VI) Compounds | <0.01 | mg/L | - | 2/03/2023 |
| Copper | 0.0034 | mg/L | - | 2/03/2023 |
| Iron | 0.065 | mg/L | - | 2/03/2023 |
| Lead | <0.0001 | mg/L | - | 2/03/2023 |
| Manganese | 0.0415 | mg/L | - | 2/03/2023 |
| Nickel | 0.0017 | mg/L | - | 2/03/2023 |
| Nitrite and Nitrate as N | 2.56 | mg/L | - | 2/03/2023 |
| Nitrogen | 3.5 | mg/L | - | 2/03/2023 |
| pH | 8.58 | pH units | - | 2/03/2023 |
| Phosphorus as P | 0.94 | mg/L | - | 2/03/2023 |
| Reactive Phosphorus as P | 0.74 | mg/L | - | 2/03/2023 |
| Selenium | 0.0244 | mg/L | - | 2/03/2023 |
| Total Kjeldahl Nitrogen | 0.9 | mg/L | - | 2/03/2023 |
| Total Suspended Solids | 7 | mg/L | - | 2/03/2023 |
| Vanadium | 0.0302 | mg/L | - | 2/03/2023 |
| Zinc | 0.004 | mg/L | - | 2/03/2023 |

## Eraring Cooling Water Inlet Canal

*EPA Identification no. 31 - Inlet canal of the cooling water intake from Lake Macquarie*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Aluminium | 0.086 | mg/L | - | 2/03/2023 |
| Ammonia | <0.005 | mg/L | - | 2/03/2023 |
| Arsenic III | <0.004 | mg/L | - | 2/03/2023 |
| Arsenic V | <0.004 | mg/L | - | 2/03/2023 |
| Cadmium | <0.0002 | mg/L | - | 2/03/2023 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 2/03/2023 |
| Chromium (VI) Compounds | <0.01 | mg/L | - | 2/03/2023 |
| Copper | 0.0015 | mg/L | - | 2/03/2023 |
| Iron | 0.128 | mg/L | - | 2/03/2023 |
| Lead | <0.0002 | mg/L | - | 2/03/2023 |
| Manganese | 0.0074 | mg/L | - | 2/03/2023 |
| Nickel | <0.0005 | mg/L | - | 2/03/2023 |
| pH | 8.15 | pH units | - | 2/03/2023 |
| Selenium | <0.001 | mg/L | - | 2/03/2023 |
| Total Suspended Solids | 22 | mg/L | - | 2/03/2023 |
| Vanadium | 0.003 | mg/L | - | 2/03/2023 |
| Zinc | 0.006 | mg/L | - | 2/03/2023 |
| Dissolved Oxygen | 7.94 | mg/L | - | 2/03/2023 |
| Field Temperature | 26.4 | degC | - | 2/03/2023 |
| Salinity | 34.5 | ppt | - | 2/03/2023 |
| Secchi Disk | 2.5 | m | - | 2/03/2023 |
| Temperature – Average | 26.73 | deg C | - | March 2023 |
| Temperature – Minimum | 24.17 | deg C | - | March 2023 |
| Temperature - Maximum | 28.65 | deg C | - | March 2023 |

## Eraring Cooling Water Outlet Canal

*EPA Identification no. 21 - Cooling water outlet canal to Myuna Bay*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Copper | 0.0049 | mg/L | 0.005 | 2/03/2023 |
| Iron | 0.565 | mg/L | 0.3 | 2/03/2023 |
| Selenium | <0.001 | mg/L | 0.002 | 2/03/2023 |
| Temperature – Average | 32.44 | deg C | 37.5 | March 2023 |
| Temperature – Minimum | 28.10 | deg C | 37.5 | March 2023 |
| Temperature - Maximum | 35.52 | deg C | 37.5 | March 2023 |
| Maximum Daily Discharge from Ash Dam | 17.67 | ML | 150 | March 2023 |
| Monthly Discharge from Ash Dam | 107.53 | ML | - | March 2023 |

## Emergency Discharge – Toe Drain Pond

*EPA Identification no. 24 - Emergency discharge to toe drain collection pond*
*No Discharge during March 2023, background sample only*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Aluminium | 0.012 | mg/L | - | 2/03/2023 |
| Ammonia | 2.38 | mg/L | - | 2/03/2023 |
| Arsenic III | 0.0029 | mg/L | - | 2/03/2023 |
| Arsenic V | <0.0005 | mg/L | - | 2/03/2023 |
| Cadmium | <0.00005 | mg/L | - | 2/03/2023 |
| Chromium (Trivalent) | <0.001 | mg/L | - | 2/03/2023 |
| Chromium (VI) Compounds | <0.01 | mg/L | - | 2/03/2023 |
| Copper | <0.0005 | mg/L | - | 2/03/2023 |
| Iron | 3.62 | mg/L | - | 2/03/2023 |
| Lead | <0.0001 | mg/L | - | 2/03/2023 |
| Manganese | 1.04 | mg/L | - | 2/03/2023 |
| Nickel | 0.0014 | mg/L | - | 2/03/2023 |
| Nitrite and Nitrate as N | 0.16 | mg/L | - | 2/03/2023 |
| Nitrogen | 2.58 | mg/L | - | 2/03/2023 |
| pH | 6.77 | pH units | 6-9.5 | 2/03/2023 |
| Phosphorus as P | 0.095 | mg/L | - | 2/03/2023 |
| Reactive Phosphorus as P | 0.011 | mg/L | - | 2/03/2023 |
| Selenium | 0.0002 | mg/L | - | 2/03/2023 |
| Total Kjeldahl Nitrogen | 2.42 | mg/L | - | 2/03/2023 |
| Total Suspended Solids | 28 | mg/L | 50 | 2/03/2023 |
| Vanadium | 0.0006 | mg/L | - | 2/03/2023 |
| Zinc | 0.006 | mg/L | - | 2/03/2023 |

**MR217**

*EPA Identification no. 23 - Emergency discharge from ash dam outlet at culvert*

*MR217 did not discharge throughout March 2023*

| Name | Reading | Units | Licence Limit | Date |
|---|---|---|---|---|
| Aluminium | | mg/L | - | |
| Ammonia | | mg/L | - | |
| Arsenic III | | mg/L | - | |
| Arsenic V | | mg/L | - | |
| Cadmium | | mg/L | - | |
| Chromium (Trivalent) | | mg/L | - | |
| Chromium (VI) Compounds | | mg/L | - | |
| Copper | | mg/L | - | |
| Iron | | mg/L | - | |
| Lead | | mg/L | - | |
| Manganese | | mg/L | - | |
| Nickel | | mg/L | - | |
| Nitrite and Nitrate as N | | mg/L | - | |
| Nitrogen | | mg/L | - | |
| pH | | pH units | 6-9.5 | |
| Phosphorus as P | | mg/L | - | |
| Reactive Phosphorus as P | | mg/L | - | |
| Selenium | | mg/L | - | |
| Total Kjeldahl Nitrogen | | mg/L | - | |
| Total Suspended Solids | | mg/L | 50 | |
| Vanadium | | mg/L | - | |
| Zinc | | mg/L | - | |

**Groundwater Monitoring**
**Groundwater Well – MW01**

*EPA Identification no. 32 – Groundwater Monitoring Well 01*

| Name | Reading | Units | Date |
|---|---|---|---|
| Aluminium | 0.130 | mg/L | 15/03/2023 |
| Ammonia | <0.10 | mg/L | 15/03/2023 |
| Arsenic (III) | <0.0005 | mg/L | 15/03/2023 |
| Arsenic (V) | <0.0005 | mg/L | 15/03/2023 |
| Cadmium | <0.00005 | mg/L | 15/03/2023 |
| Calcium | 2 | mg/L | 15/03/2023 |
| Chromium (trivalent) | <0.01 | mg/L | 15/03/2023 |
| Chromium (VI) compounds | <0.01 | mg/L | 15/03/2023 |
| Copper | 0.0010 | mg/L | 15/03/2023 |
| Electrical Conductivity | 423 | uS/cm | 15/03/2023 |
| Iron | 0.224 | mg/L | 15/03/2023 |
| Lead | 0.0007 | mg/L | 15/03/2023 |
| Magnesium | 5 | mg/L | 15/03/2023 |
| Manganese | 0.131 | mg/L | 15/03/2023 |
| Nickel | 0.0045 | mg/L | 15/03/2023 |
| pH | 4.93 | pH units | 15/03/2023 |
| Potassium | 4 | mg/L | 15/03/2023 |
| Selenium | 0.0002 | mg/L | 15/03/2023 |
| Sodium | 68 | mg/L | 15/03/2023 |
| Standing Water Level | 8.78 | metres | 15/03/2023 |
| Vanadium | 0.0002 | mg/L | 15/03/2023 |
| Zinc | 0.021 | mg/L | 15/03/2023 |

**Groundwater Monitoring**
**Groundwater Well – MW02**

*EPA Identification no. 33 – Groundwater Monitoring Well 02*

| Name | Reading | Units | Date |
|---|---|---|---|
| Aluminium | 0.626 | mg/L | 16/03/2023 |
| Ammonia | 3.99 | mg/L | 16/03/2023 |
| Arsenic (III) | 0.0031 | mg/L | 16/03/2023 |
| Arsenic (V) | <0.0005 | mg/L | 16/03/2023 |
| Cadmium | <0.0002 | mg/L | 16/03/2023 |
| Calcium | 290 | mg/L | 16/03/2023 |
| Chromium (trivalent) | <0.01 | mg/L | 16/03/2023 |
| Chromium (VI) compounds | <0.01 | mg/L | 16/03/2023 |
| Copper | 0.002 | mg/L | 16/03/2023 |
| Electrical Conductivity | 15600 | uS/cm | 16/03/2023 |
| Iron | 9.33 | mg/L | 16/03/2023 |
| Lead | 0.0016 | mg/L | 16/03/2023 |
| Magnesium | 271 | mg/L | 16/03/2023 |
| Manganese | 1.02 | mg/L | 16/03/2023 |
| Nickel | 0.0011 | mg/L | 16/03/2023 |
| pH | 6.42 | pH units | 16/03/2023 |
| Potassium | 126 | mg/L | 16/03/2023 |
| Selenium | <0.002 | mg/L | 16/03/2023 |
| Sodium | 3200 | mg/L | 16/03/2023 |
| Standing Water Level | 4.05 | metres | 16/03/2023 |
| Vanadium | 0.0032 | mg/L | 16/03/2023 |
| Zinc | 0.032 | mg/L | 16/03/2023 |

**Groundwater Monitoring**
**Groundwater Well – MW06**

*EPA Identification no. 34 – Groundwater Monitoring Well 06*

| Name | Reading | Units | Date |
|---|---|---|---|
| Aluminium | 0.079 | mg/L | 15/03/2023 |
| Ammonia | 2.86 | mg/L | 15/03/2023 |
| Arsenic (III) | 0.0045 | mg/L | 15/03/2023 |
| Arsenic (V) | 0.0007 | mg/L | 15/03/2023 |
| Cadmium | <0.0002 | mg/L | 15/03/2023 |
| Calcium | 448 | mg/L | 15/03/2023 |
| Chromium (trivalent) | <0.01 | mg/L | 15/03/2023 |
| Chromium (VI) compounds | <0.01 | mg/L | 15/03/2023 |
| Copper | <0.001 | mg/L | 15/03/2023 |
| Electrical Conductivity | 20200 | uS/cm | 15/03/2023 |
| Iron | 11.2 | mg/L | 15/03/2023 |
| Lead | 0.0007 | mg/L | 15/03/2023 |
| Magnesium | 271 | mg/L | 15/03/2023 |
| Manganese | 0.379 | mg/L | 15/03/2023 |
| Nickel | 0.0008 | mg/L | 15/03/2023 |
| pH | 6.56 | pH units | 15/03/2023 |
| Potassium | 122 | mg/L | 15/03/2023 |
| Selenium | <0.002 | mg/L | 15/03/2023 |
| Sodium | 3580 | mg/L | 15/03/2023 |
| Standing Water Level | 1.75 | metres | 15/03/2023 |
| Vanadium | 0.0012 | mg/L | 15/03/2023 |
| Zinc | 0.033 | mg/L | 15/03/2023 |

**Groundwater Monitoring**
**Groundwater Well – EGM/D26**

*EPA Identification no. 35 – Groundwater Monitoring Well D26*
*Groundwater well was dry during sampling in March 2023*

| Name | Reading | Units | Date |
|---|---|---|---|
| Aluminium | - | mg/L | - |
| Ammonia | - | mg/L | - |
| Arsenic (III) | - | mg/L | - |
| Arsenic (V) | - | mg/L | - |
| Cadmium | - | mg/L | - |
| Calcium | - | mg/L | - |
| Chromium (trivalent) | - | mg/L | - |
| Chromium (VI) compounds | - | mg/L | - |
| Copper | - | mg/L | - |
| Electrical Conductivity | - | uS/cm | - |
| Iron | - | mg/L | - |
| Lead | - | mg/L | - |
| Magnesium | - | mg/L | - |
| Manganese | - | mg/L | - |
| Nickel | - | mg/L | - |
| pH | - | pH units | - |
| Potassium | - | mg/L | - |
| Selenium | - | mg/L | - |
| Sodium | - | mg/L | - |
| Standing Water Level | - | metres | - |
| Vanadium | - | mg/L | - |
| Zinc | - | mg/L | - |