TWEEDSAND BYPASSING

Sand Pumping Details

| Pumping Quantities Since March 2001 (m) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Outlets |  |  |  |  |  |
| Year | Month | Duranbah | SR-E | Kirra | Greenmount | SR-W | Total |
| 2001 | March | - | 111,495 | - | - | - | 111,495 |
|  | April | 18,968 | 51,489 | - | - | - | 70,457 |
|  | May | 48,290 | 20,009 | - | - | - | 68,299 |
|  | June | - | 61,800 | - | - | - | 61,800 |
|  | July | - | 84,263 | - | - | - | 84,263 |
|  | August | - | - | 28,161 | - | - | 28,161 |
|  | September | - | - | 46,940 | - | - | 46,940 |
|  | October | - | 7,720 | 22,178 | - | 1,586 | 31,484 |
|  | November | - | 52,113 | - | - | - | 52,113 |
|  | December | - | 20,857 | - | - | - | 20,857 |
| 2001 total = 575,869 $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |
| 2002 | January | - | 38,284 | - | - | - | 38,284 |
|  | February | - | 16,198 | 45,233 | - | - | 61,431 |
|  | March | - | 75,401 | - | - | - | 75,401 |
|  | April | 30,176 | 53,571 | - | - | - | 83,747 |
|  | May | 14,339 | 67,521 | - | - | - | 81,860 |
|  | June | - | 78,377 | - | - | - | 78,377 |
|  | July | - | 91,417 | - | - | - | 91,417 |
|  | August | - | 117,842 | - | - | - | 117,842 |
|  | September | 19,345 | 15,988 | - | - | - | 35,333 |
|  | October | 8,012 | 9,978 | 10,248 | - | - | 28,238 |
|  | November | - | - | 22,836 | - | - | 22,836 |
|  | December | - | - | 6,598 | - | - | 6,598 |
| 2002 total = 721,364 $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |
| 2003 | January | - | 2 | - | - | - | 2 |
|  | February | - | 86,239 | 17,764 | - | - | 104,003 |
|  | March | 14,583 | 65,302 | - | - | - | 79,885 |
|  | April | 19,853 | 78,621 | - | - | - | 98,474 |
|  | May | - | 100,144 | - | - | - | 100,144 |
|  | June | 31,482 | 36,561 | - | - | - | 68,043 |
|  | July | 4,306 | 73,652 | - | - | - | 77,958 |
|  | August | - | 68,280 | - | - | - | 68,280 |
|  | September | - | 33,338 | - | 10,722 | - | 44,060 |
|  | October | - | 9,634 | 18,473 | 21,209 | - | 49,316 |
|  | November | - | 9,379 | 36,100 | - | - | 45,479 |
|  | December | - | 41,801 | 9,581 | - | - | 51,382 |
| 2003 total = 787,026 $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |
| 2004 | January | - | 48,374 | - | - | - | 48,374 |
|  | February | - | 23,677 | - | - | - | 23,677 |
|  | March | 36,813 | 38,639 | - | - | - | 75,452 |
|  | April | - | 32,640 | - | - | - | 32,640 |
|  | May | - | 18,668 | - | - | - | 18,668 |
|  | June | - | 44,519 | - | - | - | 44,519 |
|  | July | - | 54,993 | - | - | - | 54,993 |
|  | August | - | 25,963 | - | - | - | 25,963 |
|  | September | - | 59,112 | - | - | - | 59,112 |
|  | October | - | 40,404 | - | - | - | 40,404 |
|  | November | - | 37,716 | - | - | - | 37,716 |
|  | December | - | 34,849 | - | - | - | 34,849 |
| 2004 total $=496,367 \mathrm{~m}^{3}$ |  |  |  |  |  |  |  |


| Year | Month | Duranbah | SR-E | Kirra | Greenmount | SR-W | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2005 | January | - | 56,160 | - | - | - | 56,160 |
|  | February | - | 58,972 | - | - | - | 58,972 |
|  | March | - | 56,585 | - | - | - | 56,585 |
|  | April | 6,527 | 75,942 | - | - | - | 82,469 |
|  | May | 17,821 | 70,400 | - | - | - | 88,221 |
|  | June | - | 98,493 | - | - | - | 98,493 |
|  | July | - | 54,511 | - | - | - | 54,511 |
|  | August | - | 95,636 | - | - | - | 95,636 |
|  | September | - | 31,587 | - | - | - | 31,587 |
|  | October | - | 43,796 | - | - | - | 43,796 |
|  | November | 5,231 | 27,804 | - | - | - | 33,035 |
|  | December | 12,108 | 13,358 | - | - | - | 25,466 |
| 2005 total = 724,931 $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |
| 2006 | January | - | 56,231 | - | - | - | 56,231 |
|  | February | - | 70,596 | - | - | - | 70,596 |
|  | March | - | 51,602 | - | - | - | 51,602 |
|  | April | 13,715 | 7,134 | - | - | - | 20,849 |
|  | May | 23,551 | - | - | - | - | 23,551 |
|  | June | 6,903 | 57,402 | - | - | - | 64,305 |
|  | July | - | 115,009 | - | - | - | 115,009 |
|  | August | - | 39,955 | - | - | - | 39,955 |
|  | September | - | 35,988 | - | - | - | 35,988 |
|  | October | - | 17,705 | - | - | - | 17,705 |
|  | November | 22,930 | 3,004 | - | - | - | 25,934 |
|  | December | - | 30,559 | - | - | - | 30,559 |
| 2006 total = 552,284 $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |
| 2007 | January | - | 27,203 | - | - | - | 27,203 |
|  | February | - | 58,002 | - | - | - | 58,002 |
|  | March | - | 52,736 | - | - | - | 52,736 |
|  | April | - | 37,505 | - | - | - | 37,505 |
|  | May | 19,766 | 19,496 | - | - | - | 39,262 |
|  | June | 1,956 | 60,129 | - | - | - | 62,085 |
|  | July | - | 70,689 | - | - | - | 70,689 |
|  | August | - | 83,698 | - | - | - | 83,698 |
|  | September | 5,572 | 45,694 | - | - | - | 51,266 |
|  | October | - | 14,069 | - | - | - | 14,069 |
|  | November | 2,274 | 18,635 | - | - | - | 20,909 |
|  | December | 17,711 | 27,112 | - | - | - | 44,823 |
| 2007 total = 562,247 $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |
| 2008 | January | 8,452 | 42,221 | - | - | - | 50,673 |
|  | February | - | 47,518 | - | - | - | 47,518 |
|  | March | 21,048 | 29,927 | - | - | - | 50,975 |
|  | April | 8,750 | 63,642 | - | - | - | 72,392 |
|  | May | - | 62,086 | - | - | - | 62,086 |
|  | June | - | 64,782 | - | - | - | 64,782 |
|  | July | - | 51,114 | - | - | - | 51,114 |
|  | August | - | 64,894 | - | - | - | 64,894 |
|  | September | 2,887 | 54,104 | - | - | - | 56,991 |
|  | October | 15,220 | 11,235 | - | - | - | 26,455 |
|  | November | 9,140 | 23,086 | - | - | - | 32,226 |
|  | December | - | 5,703 | - | - | - | 5,703 |
| 2008 total $=585,809 \mathrm{~m}^{3}$ |  |  |  |  |  |  |  |


| Year | Month | Duranbah | SR-E | Kirra | Greenmount | SR-W | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2009 | January | - | 35,488 | - | - | - | 35,488 |
|  | February | 4,325 | 33,481 | - | - | - | 37,806 |
|  | March | - | 48,644 | - | - | - | 48,644 |
|  | April | 14,296 | 61,554 | - | - | - | 75,850 |
|  | May | 21,779 | 28,745 | - | - | - | 50,524 |
|  | June | - | 12,703 | - | - | - | 12,703 |
|  | July | - | 17,172 | - | - | 2,881 | 20,053 |
|  | August | 3,411 | 22,853 | - | - | 7,797 | 34,061 |
|  | September | - | 40,140 | - | - | - | 40,140 |
|  | October | - | 31,852 | - | - | - | 31,852 |
|  | November | - | 14,067 | - | - | - | 14,067 |
|  | December | - | 8,044 | - | - | - | 8,044 |
| 2009 total $=409,232 \mathrm{~m}^{3}$ |  |  |  |  |  |  |  |
| 2010 | January | - | 6,641 | - | - | - | 6,641 |
|  | February | - | 58,309 | - | - | - | 58,309 |
|  | March | - | 51,041 | - | - | - | 51,041 |
|  | April | - | 38,304 | - | - | - | 38,304 |
|  | May | 12,868 | 23,515 | - | - | - | 36,383 |
|  | June | 8,913 | 24,028 | - | - | - | 32,941 |
|  | July | - | 33,722 | - | - | - | 33,722 |
|  | August | - | 11,582 | - | - | - | 11,582 |
|  | September | - | 27,708 | - | - | - | 27,708 |
|  | October | - | 43,208 | - | - | - | 43,208 |
|  | November | - | 40,395 | - | - | - | 40,395 |
|  | December | - | 15,375 | - | - | - | 15,375 |
| 2010 total $=395,609 \mathrm{~m}^{3}$ |  |  |  |  |  |  |  |
| 2011 | January | - | 35,722 | - | - | - | 35,722 |
|  | February | 6,460 | 23,080 | - | - | - | 29,540 |
|  | March | - | 50,854 | - | - | - | 50,854 |
|  | April | - | 45,325 | - | - | - | 45,325 |
|  | May | 24,674 | 27,031 | - | - | - | 51,705 |
|  | June | - | 63,363 | - | - | - | 63,363 |
|  | July | - | 53,621 | - | - | - | 53,621 |
|  | August | - | 56,251 | - | - | - | 56,251 |
|  | September | - | 37,325 | - | - | - | 37,325 |
|  | October | 24,729 | 20,206 | - | - | - | 44,935 |
|  | November | 4,541 | 5,174 | - | - | - | 9,715 |
|  | December | - | 39,813 | - | - | - | 39,813 |
| 2011 total = 518,169 $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |
| 2012 | January | - | 25,253 | - | - | - | 25,253 |
|  | February | - | 32,198 | - | - | - | 32,198 |
|  | March | 15,536 | 26,330 | - | - | - | 41,866 |
|  | April | - | 38,530 | - | - | - | 38,530 |
|  | May | 20,939 | 10,851 | - | - | - | 31,790 |
|  | June | - | 64,953 | - | - | - | 64,953 |
|  | July | 12,044 | 36,299 | - | - | - | 48,343 |
|  | August | - | 28,406 | - | - | - | 28,406 |
|  | September | - | 22,916 | - | - | - | 22,916 |
|  | October | 7,893 | 35,461 | - | - | - | 43,354 |
|  | November | 1,070 | 26,922 | - | - | - | 27,992 |
|  | December | - | 30,491 | - | - | - | 30,491 |
| 2012 total = 436,092 $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |


| Year | Month | Duranbah | SR-E | Kirra | Greenmount | SR-W | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2013 | January | - | 40,117 | - | - | - | 40,117 |
|  | February | - | 29,178 | - | - | - | 29,178 |
|  | March | 2,236 | 17,149 | - | - | - | 19,385 |
|  | April | - | 19,406 | - | - | - | 19,406 |
|  | May | 3,885 | 26,706 | - | - | - | 30,591 |
|  | June | - | 46,838 | - | - | - | 46,838 |
|  | July | 2,841 | 35,699 | - | - | - | 38,540 |
|  | August | - | 13,429 | - | - | - | 13,429 |
|  | September | - | 23,780 | - | - | - | 23,780 |
|  | October | - | 15,882 | - | - | - | 15,882 |
|  | November | 1,642 | 19,526 | - | - | - | 21,168 |
|  | December | - | 21,569 | - | - | - | 21,569 |
| 2013 total = 319,883 $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |
| 2014 | January | - | 54,911 | - | - | - | 54,911 |
|  | February | - | 28,780 | - | - | - | 28,780 |
|  | March | - | 55,527 | - | - | - | 55,527 |
|  | April | 4,699 | 33,742 | - | - | - | 38,441 |
|  | May | 2,465 | 25,672 | - | - | - | 28,137 |
|  | June | - | 26,473 | - | - | - | 26,473 |
|  | July | - | 52,155 | - | - | - | 52,155 |
|  | August | - | 80,278 | - | - | - | 80,278 |
|  | September | - | 35,081 | - | - | - | 35,081 |
|  | October | - | 20,516 | - | - | - | 20,516 |
|  | November | 1,949 | 14,325 | - | - | - | 16,274 |
|  | December | 6,156 | 22,772 | - | - | - | 28,928 |
| 2014 total $=465,501 \mathrm{~m}^{3}$ |  |  |  |  |  |  |  |
| 2015 | January | - | 39,105 | - | - | - | 39,105 |
|  | February | - | 66,014 | - | - | - | 66,014 |
|  | March | 10,008 | 7,449 | - | - | - | 17,457 |
|  | April | 4,535 | 34,801 | - | - | - | 39,336 |
|  | May | 5,578 | 36,371 | - | - | - | 41,949 |
|  | June | 2,076 | 50,999 | - | - | - | 53,075 |
|  | July | 4,525 | 65,512 | - | - | - | 70,037 |
|  | August | - | 45,146 | - | - | - | 45,146 |
|  | September | - | 56,139 | - | - | - | 56,139 |
|  | October | 17,770 | 22,519 | - | - | - | 40,289 |
|  | November | - | 29,360 | - | - | - | 29,360 |
|  | December | - | 54,775 | - | - | - | 54,775 |
| 2015 total = 552,682 $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |
| 2016 | January | - | 64,363 | - | - | - | 64,363 |
|  | February | - | 61,124 | - | - | - | 61,124 |
|  | March | 3,747 | 21,276 | - | - | - | 25,023 |
|  | April | 1,483 | 38,111 | - | - | - | 39,594 |
|  | May | - | 20,408 | - | - | - | 20,408 |
|  | June | - | 52,115 | - | - | - | 52,115 |
|  | July | 7,164 | 25,431 | - | - | - | 32,595 |
|  | August | 6,239 | 32,622 | - | - | - | 38,861 |
|  | September | - | 16,768 | - | - | - | 16,768 |
|  | October | - | 12,967 | - | - | - | 12,967 |
|  | November | - | 25,856 | - | - | - | 25,856 |
|  | December | - | 29,890 | - | - | - | 29,890 |
| 2016 total $=419,564 \mathrm{~m}^{3}$ |  |  |  |  |  |  |  |


| Year | Month | Duranbah | SR-E | Kirra | Greenmount | SR-W | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2017 | January | - | 15,474 | - | - | - | 15,474 |
|  | February | - | 18,726 | - | - | - | 18,726 |
|  | March | - | 58,397 | - | - | - | 58,397 |
|  | April | - | 49,875 | - | - | - | 49,875 |
|  | May | 12,013 | 26,800 | - | - | - | 38,813 |
|  | June | 19,083 | 49,521 | - | - | - | 68,604 |
|  | July | 2,610 | 24,373 | - | - | - | 26,983 |
|  | August | - | 29,455 | - | - | - | 29,455 |
|  | September | - | 20,168 | - | - | - | 20,168 |
|  | October | - | 13,674 | - | - | - | 13,674 |
|  | November | - | 48,352 | - | - | - | 48,352 |
|  | December | - | 17,003 | - | - | - | 17,003 |
| 2017 total = 405,524 $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |
| 2018 | January | - | 32,027 | - | - | - | 32,027 |
|  | February | - | 35,777 | - | - | - | 35,777 |
|  | March | - | 35,445 | - | - | - | 35,445 |
|  | April | - | 22,108 | - | - | - | 22,108 |
|  | May | - | 38,513 | - | - | - | 38,513 |
|  | June | - | 38,030 | - | - | - | 38,030 |
|  | July | - | 11,410 | - | - | - | 11,410 |
|  | August | - | 31,333 | - | - | - | 31,333 |
|  | September | - | 27,587 | - | - | - | 27,587 |
|  | October | - | 38,121 | - | - | - | 38,121 |
|  | November | 12,351 | 7,086 | - | - | - | 19,437 |
|  | December | 2,914 | 28,545 | - | - | - | 31,459 |
| 2018 total = 361,247 $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |
| 2019 | January | - | 24,515 | - | - | - | 24,515 |
|  | February | - | 49,143 | - | - | - | 49,143 |
|  | March | - | 26,045 | - | - | - | 26,045 |
|  | April | - | 38,412 | - | - | - | 38,412 |
|  | May | - | 26,935 | - | - | - | 26,935 |
|  | June | - | 53,076 | - | - | - | 53,076 |
|  | July | - | 50,124 | - | - | - | 50,124 |
|  | August | - | 24,258 | - | - | - | 24,258 |
|  | September | - | 21,950 | - | - | - | 21,950 |
|  | October | 15,211 | 4,301 | - | - | - | 19,512 |
|  | November | - | 13,761 | - | - | - | 13,761 |
|  | December | - | 12,321 | - | - | - | 12,321 |
| 2019 total =360,052 $\mathrm{m}^{3}$ |  |  |  |  |  |  |  |
| 2020 | January | - | 17,653 | - | - | - | 17,653 |
|  | February | - | 18,901 | - | - | - | 18,901 |
|  | March | - | 44,641 | - | - | - | 44,641 |
|  | April | - | 30,744 | - | - | - | 30,744 |
|  | May | 14,415 | 44,821 | - | - | - | 59,236 |
|  | June | - | 59,634 | - | - | - | 59,634 |
|  | July | - | 72,403 | - | - | - | 72,403 |
|  | August | - | 25,980 | - | - | - | 25,980 |
|  | September | - | 16,791 | - | - | - | 16,791 |
|  | October | 12,857 | 9,820 | - | - | - | 22,677 |
|  | November | 5,981 | 21,352 | - | - | - | 27,333 |
|  | December | - | 31,038 | - | - | - | 31,038 |
| 2020 total $=427,031 \mathrm{~m}^{3}$ |  |  |  |  |  |  |  |


| Year | Month | Duranbah | SR-E | Kirra | Greenmount | SR-W | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2021 | January | - | 12,694 | - | - | - | 12,694 |
|  | February | - | 35,663 | - | - | - | 35,663 |
|  | March | 18,854 | 3,067 | - | - | - | 21,921 |
|  | April | 8,257 | 6,934 | - | - | - | 15,191 |
|  | May | 19,905 | 30,832 | - | - | - | 50,737 |
|  | June | 6,070 | 17,475 | - | - | - | 23,545 |
|  | July | 2,497 | 33,248 | - | - | - | 35,745 |
|  | August | - | 32,153 | - | - | - | 32,153 |
|  | September | - | 45,622 | - | - | - | 45,622 |
|  | October | - | 14,201 | - | - | - | 14,201 |
|  | November | - | 25,723 | - | - | - | 25,723 |
|  | December | - | 42,499 | - | - | - | 42,499 |
| 2021 total $=355,694 \mathrm{~m}^{3}$ |  |  |  |  |  |  |  |
| 2022 | January | - | 76,670 | - | - | - | 76,670 |
|  | February | 31,502 | 56,018 | - | - | - | 87,520 |
|  | March | - | 63,092 | - | - | - | 63,092 |
|  | April | - | 66,392 | - | - | - | 66,392 |
|  | May | - | 73,797 | - | - | - | 73,797 |
|  | June | - | 20,317 | - | - | - | 20,317 |
|  | July | 11,445 | 29,130 | - | - | - | 40,575 |
|  | August | - | 22,517 | - | - | - | 22,517 |
|  | September | 681 | 42,505 | - | - | - | 43,186 |
|  | October | - | 77,432 | - | - | - | 77,432 |
|  | November | - | 12,241 | - | - | - | 12,241 |
|  | December | - | 88,971 | - | - | - | 88,971 |
| 2022 total = 672,710 m ${ }^{3}$ |  |  |  |  |  |  |  |
| 2023 | January | - | 48,339 | - | - | - | 48,339 |
|  | February | - | 41,601 | - | - | - | 41,601 |
|  | March | - | 22,898 | - | - | - | 22,898 |
|  | April | - | 98,757 | - | - | - | 98,757 |
|  | May | - | 35,478 | - | - | - | 35,478 |
|  | June | - | 23,324 | - | - | - | 23,324 |
|  | July | - | 32,493 | - | - | - | 32,493 |
|  | August | - | 22,418 | - | - | - | 22,418 |
|  | September | - | 44,687 | - | - | - | 44,687 |
|  | October | - | 39,147 | - | - | - | 39,147 |
|  | November | - | 37,414 | - | - | - | 37,414 |
|  | December | - | 14,328 | - | - | - | 14,328 |
| 2023 total $=460,884 \mathrm{~m}^{3}$ |  |  |  |  |  |  |  |
| 2024 | January | - | 29,653 | - | - | - | 29,653 |
|  | February | - | - | - | - | - |  |
|  | March | - | - | - | - | - |  |
|  | April | - | - | - | - | - |  |
|  | May | - | - | - | - | - |  |
|  | June | - | - | - | - | - |  |
|  | July | - | - | - | - | - |  |
|  | August | - | - | - | - | - |  |
|  | September | - | - | - | - | - |  |
|  | October | - | - | - | - | - |  |
|  | November | - | - | - | - | - |  |
|  | December | - | - | - | - | - |  |
| 2024 total $=29,653 \mathrm{~m}^{3}$ |  |  |  |  |  |  |  |
| Totals (2 | 00-2024) | 936,851 | 0,350,266 | 264,112 | 31,931 | 12,264 | 11,595,424 |

