

| ALCS No. | Quarry Name                    | Address             | Town             | County    | Postcode | Grid Ref          | Type of Site sand/gravel etc    | Lough Neagh Area Y/N | Certificate Issued Y/N |
|----------|--------------------------------|---------------------|------------------|-----------|----------|-------------------|---------------------------------|----------------------|------------------------|
| 1        | Navan Quarries                 | Killylea Road       | Armagh           |           |          | 787 438           | shale/limestone                 | n                    | Y                      |
| 2        | Tynan Quarry                   | Cavanapole Rd       | Tynan            | Armagh    | BT60 4RS | 787 438           | shale/limestone                 | n                    | Y                      |
| 3        | D Acheson (Navan Quarries) Ltd | 232 Drum Rd         | Cookstown        |           | BT80 9HP | 6H725 783F        | Sand/gravel                     | n                    | Y                      |
| 4        | Acheson & Glover Ltd           | 58 Ballyronan Rd    | M'felt           | L'Derry   | BT45 6EW | H9041 8969        | no extraction                   | n                    | Y                      |
| 5        | Acheson & Glover               | 210 camlough Rd     | Pomeroy          | Tyrone    | BT70 2SS | H670 771          | Sand/gravel                     | n                    | Y                      |
| 6        | Acheson & Glover Ltd           | 60 Creagh Rd        | Toome            | Antrim    | BT41 3SE | H9624 9026        | no extraction                   | n                    | Y                      |
| 7        | Acheson & Glover Ltd           | Greenahoe           | Belcoo           | Fermanagh | BT93 SHD | H1114 3918        | limestone                       | n                    | Y                      |
| 8        | Acheson & Glover Ltd           | 127 Crievehill Rd   | Fivemiletown     | Tyrone    | BT75 0SY | H404 482          | Limestone                       | n                    | Y                      |
| 9        | Acheson & Glover Ltd           | 64 Old Moy Rd       | Dungannon        | Tyrone    | BT74 6PU | N358900 E283000   | no extraction                   | n                    | Y                      |
| 10       | Annett Sand & Gravel Ltd       | 21 Leestone Rd      | Kilkeel          | Down      | BT34 4NW | IG332200 315000   | Sand/gravel                     | n                    | Y                      |
| 11       | Armagh City Quarries           | Loughall Rd         | Annacamp         | Armagh    | BT61 8EL | E288729 N349189   | Clay/ shale/ Limestone          | n                    | Y                      |
| 12       | Crocknamlint Quarry            | Ballyholme Rd       | Portrush         |           | BT56 8N6 | 06/11/sw 06/15/nw | Basalt/sand/minespoil           | n                    | Y                      |
| 13       | Aughrim Quarries Ltd           | 14 Aughrim Rd       | Kilkeel          | Down      | BT34 4HR | 328701 317951     | Hornfels                        | n                    | Y                      |
| 14       | Drogan Quarry                  | Invinestown         |                  | Fermanagh | BT94 1RX | n/k               | Dolerite/clay/Shale             | n                    | Y                      |
| 15       | Aughafad Quarry                | Donemana            | Strabane         | Tyrone    | BT82 05B | 07402nw           | Gravel/Greywacke                | n                    | Y                      |
| 16       | G E Ballantine                 | 79 Letterbrat Rd    | Plumbridge       | Tyrone    | BT79 8DN | E472 N923         | shale/schist                    | n                    | Y                      |
| 17       | Barrack Hill Quarries Ltd      | 96 Largylea Rd      | Dungannon        | Tyrone    | BT70 2NX | 159-2 159-3       | Dolerite                        | n                    | Y                      |
| 18       | John Bell & Son                | Killagran Rd        | Glarryford       | Antrim    | BT44 9PR | 045/172           | Basalt/Sand/Clay/Gravel         | n                    | Y                      |
| 19       | Stanley Bell & Sons Ltd        | 28 Balmagilly Rd    | Cookstown        | Tyrone    | BT80 9SX | H2738 3850        | Sand/Clay/Gravel/Schist         | n                    | Y                      |
| 20       | Bonds Glen Quarry              | Bonds Glen Rd       | Kilaloo          | L'Derry   |          | 249200            | limestone                       | n                    | Y                      |
| 21       | Tully Quarry                   | 116 Moorfields Rd   | Ballymena        | Antrim    | BT42 3HJ | D163 006          | Basalt/Clay/Red Laterite        | n                    | Y                      |
| 22       | Mallusk Quarry                 | 140 Mallusk Rd      | Newtownabbey     | Antrim    | BT36 4QN | J275 832          | Basalt/Clay/shale               | n                    | Y                      |
| 23       | Cralgall Quarry                | Kilrea              |                  | L'Derry   | BT51 5XR | 886144            | Basalt                          | n                    | Y                      |
| 24       | Campbell Contracts             | Letterbailey        | Tempo            | Fermanagh |          | 4H348506L         | Sand/Clay/Gravel                | n                    | Y                      |
| 25       | Campsie Sand & gravel Ltd      | Mobuoy Rd           | Campsie          | L'Derry   | BT47 3JG | CL1778 1887       | Sand/Gravel                     | n                    | Y                      |
| 26       | W & J Chambers Ltd             | 91 Glenshane Rd     | L'Derry          | L'Derry   | BT47 3SG | SC 474 143        | Sand/Gravel/Limestone           | n                    | Y                      |
| 27       | Clady Quarries                 | 59 Clady Rd         | Armagh           | Armagh    | BT60 2HA | H2921 3346        | Gritstone/Greywacke/Shale       | n                    | Y                      |
| 28       | P Clarke & Sons Ltd            | Slushill            | Lisnaskea        | Fermanagh | BT92 0AF | 231-13/246-1 NE   | Sandstone/Shale/Limestone       | n                    | Y                      |
| 29       | Collen Bros Quarries Ltd       | 30 Glebe Hill Rd    | Tandragee        |           | BT62 2DP | 034 448           | Gritstone/Greywacke/Shale       | n                    | Y                      |
| 30       | Conway Brothers                | 129 killeague Rd    | Coleraine        |           | BT51 4HH | 837 225           | Basalt/Red Laterite             | n                    | Y                      |
| 31       | Blackhill Aggregates Ltd       | 4 Doon's Rd         | Cookstown        |           | BT80 9NJ | 1/94/0019         | Sand/Gravel                     | n                    | Y                      |
| 32       | Fallagher No 2 Quarry          | Fallagher           | Sixmilecross     | Tyrone    |          | 33288             | Sand/Gravel                     | n                    | Y                      |
| 33       | Cootes (concrete Products) Ltd | 56 Redrock Rd       | Collone          | Armagh    | BT60 2BL | 6854              | Sandstone/Shale                 | n                    | Y                      |
| 34       | George Crawford & Son          | Eskrahoole Quarry   | Clogher          | Tyrone    | BT76 0UF | 492 554           | Sand/Gravel/Sandstone/Shale     | n                    | Y                      |
| 35       | Braghdyart Quarry              | 28 Disert Rd        | Draperstown      | L'Derry   | BT45 7JN | MT092/038         | Sand/Gravel                     | n                    | Y                      |
| 36       | Outlack Rd                     | 19 Outlack Rd       | Collone          | Armagh    | BT60 2AN | H903406           | Greywacke/Shale                 | n                    | Y                      |
| 37       | Deane Public Works Ltd         | Loughshore Rd       | Maghadrumbur     | Fermanagh |          | H2000             | Shale/Limestone                 | n                    | Y                      |
| 38       | Derryogue Sand Co Ltd          | Slatemill Rd        | Dunavil, Kilkeel | Down      |          | 329116            | Sand                            | n                    | Y                      |
| 39       | Devine's Sand & Gravel         | 65 Moorfough Rd     | Artigarvan       | Tyrone    |          | n/k               | Sand/Gravel                     | n                    | Y                      |
| 40       | R J Donaghy & sons             | Doons               | cookstown        |           | BT80 9NH | 736806 (107/16)   | Sand/Gravel                     | n                    | Y                      |
| 41       | Gregory Donnelly Sand & Gravel | 48a Ballyheather Rd | Strabane         | Tyrone    | BT82 0LP | E238803 N404024   | Sand/gravel                     | n                    | Y                      |
| 42       | Thomas Doran                   | Sandy Brae, Attical | Kilkeel          | Down      |          | 31270 196F        | Granite                         | n                    | n                      |
| 43       | Moyard Properties Ltd          | 25 Fathom Line      | Newry            | Down      | BT35 8QN | 5R1090241         | Granite/clay/Gritstone/Hornfels | n                    | Y                      |
| 44       | Budore Quarries                | 15 Sycamore RD      | Dundrod          | Belfast   | BT29 4JE | 370074 300023     | Basalt/Red Laterite/Vesicular   | n                    | Y                      |

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| 45       | Edenrillick Quarries Ltd               | 17 Lagangreen Rd    | Dromore           | Down      | BT25 1EL      | 300024 370052          | Gritstone/Shale                  | n                    | n                      |
| 46       | Elliott Bros                           | 22 Wood Rd          | Tobermore, M'felt | L'Derry   |               | 515 20                 | Sand/gravel                      | n                    | y                      |
| 47       | Ardmore Sand                           | 118 Ardmore Rd      | Lurgan            | Armagh    | BT66 6QP      | 301400 363400          | Sand                             | n                    | y                      |
| 48       | Washing Plant                          | Shankey, Tullyhogue | Cookstown         | Tyrone    | BT80 8UB      | 283200 372500          | Sand/Gravel                      | n                    | y                      |
| 49       | Norman Emerson & sons Ltd              | 1 Annaloiste Rd     | Lurgan            |           | 306300 360900 | 306300 360900          | n/s                              | y                    | n                      |
| 50       | Lisbane Quarry                         | Aughlish rd         | Tandragee         | Armagh    | BT62 2EE      | 304600 344500          | Greywhacke                       | n                    | y                      |
| 51       | Norman Emerson & sons Ltd              | 118 Ardmore Rd      | Lurgan            | Armagh    | BT66 6QP      | 301400 363400          | Greywhacke                       | y                    | y                      |
| 52       | Ready Mixed Concrete Plant             | Aughlish rd         | Tandragee         | Armagh    | BT62 2EE      | 304600 344500          | Greywhacke                       | n                    | y                      |
| 53       | Magherglass Sand Pit                   | Knockaleery Rd      | Magherglass       | Tyrone    | BT80 9EH      | 273400 376600          | Sand/gravel                      | n                    | y                      |
| 54       | Leod Quarries                          | Leod Rd             | Hilltown          | Down      | BT34 5TJ      | N54 11 36.9 W6 11 17.9 | Gritstone                        | n                    | y                      |
| 55       | GRJ Enterprises Ltd                    | Greencastle Rd      | Kilkeel           | Down      | BT34 4JP      | J2873 1249             | Sand/Gravel                      | n                    | y                      |
| 56       | Cornamucklagh Quarry                   | S6 Moy Rd           | Portadown         | Armagh    |               | 2982E 3548N            | Basalt/Clay                      | n                    | y                      |
| 57       | Gibson Bros Ltd                        | 1 Kilmacrew Rd      | Banbridge         | Down      | BT32 4ES      | 3158E 3474N            | Clay/Greywhacke/Shale            | n                    | y                      |
| 58       | J Gourley & Son                        | 52 Tulnagoe Rd      | Moneymore         | L'Derry   |               | 71821.86               | Clay/Shale/Limestone             | n                    | y                      |
| 59       | Deer Park Quarry                       | Kiltierney          | kesh              | Fermanagh | BT93 1PT      | J2210 6302             | Shale/Limestone                  | n                    | y                      |
| 60       | Northstone (NI) Ltd                    | 34 Ballybriest Rd   | Cookstown         | Tyrone    | BT80 9TY      | 92 13E                 | Sand/Gravel                      | n                    | y                      |
| 61       | Seamus Grogan Jnr                      | 161 Termon Rd       | Carrickmore       | Tyrone    | BT79 9HW      | 1471 11 77 371         | Sand                             | n                    | y                      |
| 62       | Grogan Quarries Ltd                    | 154 Termon Rd       | Carrickmore       | Tyrone    | BT79 9HW      | K/2000 0834/F          | Sand/Gravel                      | n                    | y                      |
| 63       | Hackett Brothers                       | Dunbiggan           | Eskra             | Tyrone    |               | 6H 519589              | Sand/Gravel                      | n                    | y                      |
| 64       | Cashel Quarry                          | Lisdoonan           | Carryduff         | Down      | BT24 7EP      | 338 362                | Basalt/Gritstone/Greywacke/Shale | n                    | y                      |
| 65       | Patrick J Heaney                       | 60 Banagher Rd      | Dungiven          | L'Derry   |               | 5/61/19                | Sand/Clay/Gravel                 | n                    | y                      |
| 66       | Heron Bros Ltd                         | Cullion Rd          | Draperstown       | L'Derry   |               | n/k                    | Sand/Clay                        | n                    | y                      |
| 67       | R Hogg & Sons Ltd                      | 64 Killhoyle Rd     | Drumsurn          | L'Derry   | BT49 0PU      | n/k                    | Basalt                           | n                    | y                      |
| 68       | W D Irwin & Sons Ltd                   | 55 Gortgonis Rd     | Coalisland        | Tyrone    | BT1 4QG       | 852 655                | Sand/gravel                      | n                    | y                      |
| 69       | JDC Joinery & Building Works           | 260 Doon Rd         | Cookstown         | Tyrone    | BT80 9UJ      | 124 9SW                | Sand/Gravel                      | n                    | y                      |
| 70       | M W Johnston & Son                     | 11 Leverogue Rd     | Ballymagarrick    | Antrim    | BT27 5PP      | AJ3564                 | greywacke                        | n                    | y                      |
| 71       | Jordans Quarry                         | 36 Eskra Rd         | Omagh             | Tyrone    |               | n/k                    | Sand/clay/Gravel                 | n                    | y                      |
| 72       | Thomas Kane & sons                     | 67 Strabane Rd      | Newtownstewart    | Tyrone    | BT78 4SZ      | n/k                    | Sand/Gravel                      | n                    | y                      |
| 73       | Corvanaghan Quarry                     | 29 Corvanaghan Rd   | Cookstown         | Tyrone    | BT80 9TN      | H7168 8088             | Quartz                           | n                    | y                      |
| 74       | Dunloy Quarry                          | 93 Bridge Rd        | Dunloy            | Antrim    | BT44 9EG      | 2014 4171              | Basalt                           | n                    | y                      |
| 75       | Rocktown Quarry                        | 35 Rocktown Rd      | Magherafelt       | Antrim    | BT45 8QF      | H9120 9673             | Basalt                           | n                    | y                      |
| 76       | Whitemountain Quarries Ltd             | 1 Letterloan Rd     | Macosquin         | L'derry   |               | 81.95 27.93            | Basalt/Red Laterite              | n                    | y                      |
| 77       | Kilwaughter Chemical Co Ltd            | 9 Starbog Rd        | Larne             | Antrim    | BT40 2TJ      | 335300 401000          | Limestone                        | n                    | y                      |
| 78       | Leestone Sand & Gravel Ltd             | 9 Leestone Rd       | Kilkeel           | Down      |               | 3J325154F              | Sand/Gravel                      | n                    | y                      |
| 79       | L D Aggregates Ltd                     | Loughdoon Rd        | Cookstown         | Tyrone    |               | 1/2002/0826F           | Sand/Gravel                      | n                    | y                      |
| 80       | Charles Loughran                       | 18 Loughdoon Rd     | Cookstown         | Tyrone    |               | 123/2/123/6            | Sand/Gravel                      | n                    | y                      |
| 81       | Loughran Quarries                      | 144 Termon Rd       | Carrickmore       | Tyrone    | BT79 9HW      | 139-8                  | Sand/Clay/Gravel/Sandstone       | n                    | y                      |
| 82       | Loughside Quarries                     | 146 Belfast Rd      | Larne             | Antrim    | BT40 2PN      | J335269 398398         | Basalt/Vesicular/Rotted Basalt   | n                    | y                      |
| 83       | Mallaghan Convenience DIY Products Ltd | Blackrock Rd        | Kildress          |           |               | n/k                    | Sand/Gravel                      | n                    | y                      |
| 84       | Martins Quarry                         | 37 Magheraknock Rd  | Ballynahinch      | Down      | BT34 8TJ      | E35667 N54208          | Gritstone/Greywhacke/shale/slate | n                    | y                      |
| 85       | Croaghan Depot                         | Shinny Rd           | Macosquin         | L'Derry   | BT51 4PS      | 279700 426000          | Basalt/Red laterite/Vesicular    | n                    | y                      |
| 86       | Northstone (NI) Ltd                    | 61 Ballybarnes Rd   | Newtownards       | Down      | BT23 4UE      | 346400 376000          | Greywhacke/Shale                 | n                    | y                      |
| 87       | Northstone (NI) Ltd                    | 50 Quarry Rd        | Carrickmore       | Tyrone    | BT79 9JX      | 360700 372400          | Dolerite                         | n                    | y                      |
| 88       | Carmean Limestone                      | 18 Carmean Rd       | Moneymore         | L'Derry   | BT45 7UT      | 486500 387300          | Basalt/Chalk                     | n                    | y                      |

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| 89       | Northstone (NI) Ltd              | 50 Craigaroo Rd         | Ballymena        | Antrim    | BT42 4RB   | 316800 400700          | Basalt/Red Laterite/Vesicular              | n                    | Y                      |
| 90       | Northstone (NI) Ltd              | Inisclan Rd             | Mountfield       |           | BT79 7QB   | 35440 378700           | Basalt                                     | n                    | Y                      |
| 91       | Northstone (NI) Ltd              | 31 Magherafelt Rd       | Carrymore        | L'Derry   | BT45 7UR   | 286400 384200          | Basalt/Red laterite/Vesicular              | n                    | Y                      |
| 92       | Patrick Megoran                  | 94-96 Hillsborough Rd   | Cookstown        | Belfast   | BT8 8HT    | n/k                    | Shale                                      | n                    | Y                      |
| 93       | Milburn Concrete                 | 231 Orritor Rd          | cookstown        | Tyrone    | BT80 9NB   | 6H782 786F             | Basalt                                     | n                    | Y                      |
| 94       | Miskelly Brothers                | 29 Moss Rd              | Ballygowan       | Down      | BT23 6JE   | J4410 6320             | Sandstone/greywhacke/shale/slate           | n                    | Y                      |
| 95       | R J Mitten & Sons                | Magheradunbar           | Enniskillen      | Fermanagh | BT74 5NN   | H1196 4698             | Clay/Limestone                             | n                    | Y                      |
| 96       | R J Mitten & Sons                | Rockfield               | Lisnaskea        | Fermanagh | BT92 5EA   | H4035 3106             | Clay/Shale/Limestone                       | n                    | Y                      |
| 97       | Moore Sand & Gravel              | adj to 22 Moore Rd      | Kilkeel          | Down      | BT34 4NG   | ig 284-4               | Sand/Gravel                                | n                    | Y                      |
| 98       | J Morgan & Sons (Mayobridge) Ltd | 49 Leode Rd             | Hilltown         | Down      | BT34 5TJ   | n/k                    | Basalt/Clay                                | n                    | Y                      |
| 99       | A E Mulholland & Sons            | Derryclone Rd           | Craigavon        |           | BT06 0BP   | n54.30.618 w006.20/300 | sand                                       | Y                    | Y                      |
| 100      | Mulholland Bros. (B&S) Ltd       | 17 Shore Rd             | Ballyderry Upper | Antrim    | BT28 2LQ   | J118 713               | Sand                                       | Y                    | Y                      |
| 101      | Cam Quarry                       | 19 Cam Rd               | Macosquin        |           | BT51 4PX   | n/k                    | Basalt/Red laterite                        | n                    | Y                      |
| 102      | Neil Mullian & Sons Ltd          | 203 Altamuskin Rd       | Sixmilcross      | Tyrone    | BT79 9HX   | 158-11-3 604-632       | Sand/gravel                                | n                    | Y                      |
| 103      | Michael McAleer                  | 204 Camlough Rd         | Pomeroy          | Tyrone    |            | 664775F                | Sand/clay/Gravel/Sandstone                 | n                    | Y                      |
| 104      | B McCaffrey & Sons Ltd           | Knockninny              | Derrylin         | Fermanagh | BT92 9JT   | 207 309                | Limestone                                  | n                    | Y                      |
| 105      | McCaffrey Concrete Products Ltd  | Tonymore                | Derrylin         | Fermanagh |            | 259-25-24              | Sand/Clay/Gravel/Sandstone/Shale           | n                    | Y                      |
| 106      | McCaffrey Aggregates Ltd         | Umera                   | Derrylin         | Fermanagh | BT92 9PZ   | 285 226                | Sand/Clay/Gravel/Sandstone/Shale           | n                    | Y                      |
| 107      | Knockloughrim Quarry             | 3 Drumard Rd            | Magherafelt      |           | BT45 8QA   | 289686 397489          | Basalt                                     | n                    | Y                      |
| 108      | Thomas Quarry                    | Slieve Donard           | Newcastle        | Down      | IJ370 291  |                        | Granite                                    | n                    | Y                      |
| 109      | Ballymagreehan Quarry            | Largy Rd                | Castlewailan     | Down      | IJ 305 353 |                        | Granite                                    | n                    | Y                      |
| 110      | W J M McCormick & Sons Ltd       | 104 Belfast Rd          | Ballynahinch     | Down      | BT24 8ED   | 336400 353800          | Sandstone/Gritstone/Greywhacke/Shale/Slate | n                    | Y                      |
| 111      | McGarrihy Bros Ltd               | 15 Innishatlevie Rd     | Carrickmore      | Tyrone    | BT79 9HS   | H623 702               | Sand/gravel                                | n                    | Y                      |
| 112      | McGirr Bros Quarries             | Eskra                   | Omagh            | Tyrone    |            | IHS14 595              | Sand/Clay/Gravel/Sandstone/Shale           | n                    | Y                      |
| 113      | Gilkey Hill                      | Longland Rd             | Claudy           | L'Derry   |            | H5700 0550             | Sand/Gravel                                | n                    | Y                      |
| 114      | Murnies Sandpit                  | Crebarkey Rd            | Dungiven         | L'Derry   | BT47 4SJ   | H7064 0545             | Sand/Gravel                                | n                    | Y                      |
| 115      | J O'Connor & Sons                | 38a Moyagh Rd           | Doneganagh       | Tyrone    | BT82 0LN   | 40E 05N                | Sand/Gravel                                | n                    | Y                      |
| 116      | O'Hagan Plant                    | 8 Bog Rd                | Forkhill         | Armagh    | BT35 95Z   | 300-700-316/200        | Granite/Clay/Gritstone/Greywhacke/Shale    | n                    | Y                      |
| 117      | Demesne Quarry                   | 17 Murnie Rd            | Glenarm          | Antrim    | BT44 0BG   | O5IG 45/8412           | Limestone                                  | n                    | Y                      |
| 118      | Owenreagh Gravel Ltd             | 122 Moneymar Rd         | Trillick         | Tyrone    | BT78 3QH   | 175-13 ne              | Sand/Clay/Gravel/Sandstone/Shale           | n                    | Y                      |
| 119      | T & C Patterson                  | East of 29 Cranfield Rd | Kilkeel          | Down      |            | J276 113               | Sand/Clay/Gravel                           | n                    | Y                      |
| 120      | Quinn Concrete Ltd               | Doon                    | Kinawley         | Fermanagh |            | 323553.9E 217565.7N    | Sandstone/Shale/Limestone                  | n                    | Y                      |
| 121      | Quinn Group Ltd                  | Gortmullan              | Derrylin         | Fermanagh | BT92 9AU   | 227608E 322589N        | Sandstone/Shale/Limestone                  | n                    | Y                      |
| 122      | Aughrim Quarry                   | Flowbog Rd              | Ballycolin       | Antrim    | BT28 3TE   | J253 699               | Basalt                                     | n                    | Y                      |
| 123      | Banbridge Quarry                 | 18 Skeltons Rd          | Banbridge        | Down      | BT32 4HL   | J162 491               | Gritstone                                  | n                    | Y                      |
| 124      | Carrowdore Quarry                | 4 Manse Rd              | Carrowdore       | Down      | BT23 4TG   | J581 720               | Gritstone/Shale                            | n                    | Y                      |
| 125      | Cemex (NI) Ltd                   | 30 Creagh Rd            | Toomebridge      | Antrim    | BT41 3SE   | H976 904               | Sand                                       | Y                    | Y                      |
| 126      | Ballynahay Rd                    | Ballynahay Rd           | Ballygawley      | Tyrone    | BT70 2HN   | 263 365                | Sand/Gravel                                | n                    | Y                      |
| 127      | Cemex (NI) Ltd                   | Cashel Rd               | Greencastle      | Tyrone    | BT79 9HX   | 258 382                | Sand/Gravel                                | n                    | Y                      |
| 128      | Cairnhill Quarry                 | Ballyskeagh             | Newtownards      | Down      | BT23 4TQ   | J454 764               | Gritstone                                  | n                    | Y                      |
| 129      | Kelly's Pit                      | Altamuskin Rd           | Omagh            | Tyrone    | BT79 9HX   | 261 363                | Sand/Gravel                                | n                    | Y                      |
| 130      | Reid Bros                        | Drumshambo Glebe        | Cookstown        | Tyrone    | BT80 9JJ   | TP/11639               | Sand/Gravel                                | n                    | Y                      |
| 131      | Riddles Bros Ltd                 | 34 Lupin Avenue         | Donemana         | Tyrone    | BT82 0PG   | 4507 0276              | Sand/Gravel                                | n                    | Y                      |
| 132      | Riverside Sand & Gravel Ltd      | Leestone Rd             | Magherareagh     | Down      | BT34 4NW   | 332350 315400          | Sand/Gravel                                | n                    | Y                      |

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| 133      | Craigs Quarry                        | 32 Glenhead Rd         | Glenwherry      | Antrim    | BT42 4RE | 325300E 399600N | Basalt/Clay/Red laterite/Vesicular/Bentonite | n                    | Y                      |
| 134      | Robert Robinson & Son                | 75 Cumber rd           | Claudy          | L'derry   | BT47 4JA | n/k             | Sand/Gravel                                  | n                    | Y                      |
| 135      | Robert Robinson & Son                | Moneycannon Rd         | Donemana        | Tyrone    | BT34 6JE | 61-6E 61-10     | Sand/Clay/gravel                             | n                    | Y                      |
| 136      | Ballycastle Quarry                   | 33 Magheramore Rd      | Ballycastle     | Antrim    | BT28 2LF | 3086 4383       | Basalt/Clay/Red laterite/Vesicular           | n                    | Y                      |
| 137      | Sandybay Site                        | 19 Shore Rd            | Upp Ballinderry | Antrim    | BT29 4EE | n/k             | Sand/Gravel                                  | Y                    | Y                      |
| 138      | Ballyginniff site                    | Loughview Rd           | Crumlin         | Antrim    | BT41 3SD | n/k             | Sand/Gravel                                  | Y                    | Y                      |
| 139      | Hutchinsons site                     | Creagh Rd              | Toomebridge     | Antrim    | BT35 7PF | n/k             | Gravel/Shale                                 | n                    | Y                      |
| 140      | Shaughan Quarries Ltd                | 16 Shaughan Rd         | Belleeks        | Down      | BT30 8PR | 648 711         | Sand/Gravel                                  | n                    | Y                      |
| 141      | Sluggan Sand Ltd                     | Coolbrack Rd           | Pomeroy         | Tyrone    | BT30 8PR | J406 455        | Greywhacke                                   | n                    | Y                      |
| 142      | CES Quarry Products Ltd              | 131 Newcastle Rd       | Seaforde        | Down      | BT30 8PR | J406 455        | Greywhacke                                   | n                    | Y                      |
| 143      | C E Stevenson & Sons                 | Derogue                | Kilkeel         | Down      | BT24 7JJ | 295 125         | Sand/Gravel                                  | n                    | Y                      |
| 144      | CES Quarry Products Ltd              | 112 Crossgar Rd        | Saintfield      | Down      | BT43 6SS | J4240 5678      | Greywhacke                                   | n                    | Y                      |
| 145      | Clinty Quarry                        | 215 Doury Rd           | Ballymena       | Antrim    | BT43 6SS | D102074         | Basalt/Red laterite                          | n                    | Y                      |
| 146      | Supermix Ltd                         | 76 Strabane Rd         | Newtownstewart  | Tyrone    | BT78 4JZ | 23.5 38.5       | Sand/Clay/Sandstone                          | n                    | Y                      |
| 147      | W & J Taggart (Quarries)Ltd          | 160 Corkey Rd          | Loughglie       | Antrim    | BT44 9JQ | D092225         | Basalt                                       | n                    | Y                      |
| 148      | Craigantlet Quarry                   | 73 Holywood Rd         | Newtownards     | Down      | BT23 4TG | J442 767        | Gritstone/Greywhacke/shale                   | n                    | Y                      |
| 149      | Carn Quarry                          | Ederney                |                 | Fermanagh |          | H234 636        | Shale/Limestone                              | n                    | Y                      |
| 150      | Drumree Quarry                       | Drumsra Rd             | Drumquin        | Tyrone    |          | H317 720        | Shale/Limestone                              | n                    | Y                      |
| 151      | Hightown Quarry                      | 40a Boghill Rd         | Mallusk         | Antrim    | BT36 4QS | J292 804        | Basalt/Red laterite/Vesicular                | n                    | Y                      |
| 152      | Tobermore concrete Products Ltd      | 20a Spawell Rd         | Dunmore         | Tyrone    | BT80 9TT | n/k             | Sand/Gravel                                  | n                    | Y                      |
| 153      | Tullyrairie Quarries Ltd             | 122 Dromore Rd         | Banbridge       | Down      | BT32 4EG | n/k             | Clay/Gritstone/Greywhacke/Shale              | n                    | Y                      |
| 154      | Patrick and John Walls               | Airfield Rd            | Toomebridge     | Antrim    |          | H1991 0170      | Sand                                         | n                    | Y                      |
| 155      | Alfie Watterson                      | Ballybrist Rd          | Cookstown       | Tyrone    |          | n/k             | Sand/Gravel                                  | n                    | Y                      |
| 156      | Blackmountain Quarry                 | Upper Springfield Rd   | Belfast         |           | BT17 0LT | 2800 7200       | Basalt/Clay/Red Laterite                     | n                    | Y                      |
| 157      | Temple Quarry                        | 26 Ballycarnagannon Rd | Lisburn         | Antrim    | BT27 6YA | 3350 6150       | Greywhacke/Shale                             | n                    | Y                      |
| 158      | Whitemountain Quarries Ltd           | 26 Ballystockart Rd    | Comber          | Down      | BT23 5QY | 4350 7050       | Greywhacke/Shale                             | n                    | Y                      |
| 159      | Whitemountain Quarries Ltd           | Whitemountain Rd       | Lisburn         | Antrim    |          | 2300 6800       | Basalt/Clay/Red laterite                     | n                    | Y                      |
| 160      | Ballylig Quarry                      | Ballylig Rd            | Broughshane     | Antrim    | BT43 7HH | 34870           | Basalt/Vesicular/Gangue                      | n                    | Y                      |
| 161      | Castle Quarries Ltd                  | 42 Mulnafye Rd         | Omagh           | Tyrone    |          |                 | Shale                                        | n                    | Y                      |
| 162      | Dobbs Pit                            | 160 Camlough Rd        | Creggan         | Tyrone    | BT45 6HJ | H646 762        | Sand/Gravel                                  | n                    | Y                      |
| 163      | Henry Brothers (Magherafelt) Ltd     | Moneymore Rd           | Magherafelt     |           |          |                 | Sand/Gravel                                  | n                    | Y                      |
| 164      | Blackhill Aggregates Ltd             | Beaghmore Rd           | Cookstown       |           |          |                 | Sand/Gravel                                  | n                    | Y                      |
| 165      | Colton Quarries Ltd                  | Larghy Rd              | Lack            | Fermanagh |          |                 | u/k                                          | n                    | Y                      |
| 166      | McAnenly Quarries Ltd                | Spring Rd              | Drumnakilly     | Tyrone    | BT79 0LA | 121165E 121165W | Sand/Gravel                                  | n                    | Y                      |
| 167      | Matthew Robinson & Son Concrete Prod | Gortclare Rd           | Donemana        | Tyrone    | BT47 4SA | C2501 4025      | Sand/Gravel                                  | n                    | Y                      |
| 168      | Matthew Robinson & Son Concrete Prod | 86 Cumber Rd           | Claudy          | L'Derry   | BT47 4SA | C2542 4060      | Sand/gravel                                  | n                    | Y                      |
| 169      | Ballycraig Quarry                    | Mullan Rd              | Finvoy          | Antrim    | BT53 7ED | 297700 416600   | Basalt                                       | n                    | Y                      |
| 170      | Henry Brothers (Magherafelt) Ltd     | Loughfea Rd            | Ballybriest     |           |          |                 | Sand/gravel                                  | n                    | Y                      |
| 171      | Bligwood Quarry                      | Warrenpoint Rd         | Narrow Water    | Down      |          | 27604SW         | Gritstone/Greywhacke/Shale                   | n                    | Y                      |
| 172      | Patterson Sand & Gravel              | 27 Ballynahatten Rd    | Kilkeel         | Down      |          | 328025 312325   | Sand/Gravel                                  | n                    | Y                      |
| 173      | Campbell Sand & Gravel               | 47 Moor Rd             | Kilkeel         | Down      | BT34 4NG | 314850 331950   | Sand/Gravel                                  | n                    | Y                      |
| 174      | Blackford Sand                       | Pats Rd                | Ballymartin     | Down      |          |                 | sand/Gravel                                  | n                    | n                      |
| 175      | Sherrard (Bros) Sand & Gravel Ltd    | 48 Tully Rd            | Limavady        | L'Derry   | BT49 9HW |                 | Sand/Gravel                                  | n                    | Y                      |
| 176      | Wm McLaughlin & sons Ltd             | Ardcama Rd             | Fawney          | Tyrone    |          | C4500 0500      | Sand/Gravel                                  | n                    | Y                      |

| ALCS No. | Quarry Name                             | Address               | Town            | County    | Postcode | Grid Ref        | Type of Site sand/gravel etc     | Lough Neagh Area Y/N | Certificate Issued Y/N |
|----------|-----------------------------------------|-----------------------|-----------------|-----------|----------|-----------------|----------------------------------|----------------------|------------------------|
| 177      | Tullyvallen Quarry                      | 15 Lullyhanna Rd      | Newtownhamilton | Down      | BT35 0JD | 2924E 3245N     | Clay/Greywhacke/Shale            | n                    | Y                      |
| 178      | Ernest John Coffey                      | 29 Cranfield Rd       | Kilkeel         | Down      | BT34 4LJ | 3J 275.114C     | Sand                             | n                    | Y                      |
| 179      | Edendarriff Quarry                      | Demesne Rd            | Seaford         | Down      |          |                 | Basalt/Greywhacke                | n                    | Y                      |
| 180      | Swan Rock Quarries                      | Gortreasia Rd         | Crossmaglen     | Down      |          |                 | Basalt                           | n                    | Y                      |
| 181      | Drumree Quarry                          | Derrygonnelly Rd      | Enniskillen     | Fermanagh | BT74 7PY | 22130 3455S     | Limestone                        | n                    | Y                      |
| 182      | unused number/duplicate                 |                       |                 |           |          |                 |                                  |                      |                        |
| 183      | Heron Bros                              | Ballybriest Rd        | Lough Fea       | Tyrone    |          | H76S 882        | Sand/Clay/gravel                 | n                    | Y                      |
| 184      | King Bros                               | 87 Killycoppole Rd    | Collone         | Armagh    | BT60 2AL | 235035E         | Basalt/Clay/Vesicular/Shale      | n                    | Y                      |
| 185      | Michael Tierney Sand & Gravel           | 56 Cavanoneill Rd     | Pomeroy         | Tyrone    | BT70 2SH |                 | Sand/Gravel                      | n                    | Y                      |
| 186      | Mullaghglass Quarry                     | 26 Mullaghglass Rd    | Lisburn         |           |          |                 | Basalt/Clay/Red Laterite         | n                    | Y                      |
| 187      | Keady Quarry                            | Keady Rd              | Limavady        | L'Derry   |          | 272250 424100   | Basalt                           | n                    | Y                      |
| 188      | Tony Harley & Sons Ltd                  | 21 Urballreagh Rd     | Victoria Bridge | Tyrone    |          | 2353 3879       | Sand/Clay/Gravel                 | n                    | Y                      |
| 189      | Aughrim Quarry                          | 141-143 Collinglen Rd | Dunmurry        | Belfast   | BT17 ONP |                 | Basalt/Clay/Vesicular            | n                    | Y                      |
| 190      | Stoneyford Building Supplies            | 38 Murnells Rd        | Pomeroy         | Tyrone    |          |                 | Sand/Clay/Gravel                 | n                    | Y                      |
| 191      | Girvans Sand & Gravel                   | Mabouy Rd             | Pomeroy         | Tyrone    |          | H689S 7360      | Sand/Gravel                      | n                    | Y                      |
| 192      | Mallaghan Convenience DIY Producers Ltd | Brackleagh Rd         | Draperstown     |           |          |                 | Sand                             | n                    | Y                      |
| 193      | Rock Sand & Gravel Ltd                  | Whitebridge Rd        | Carrickmore     | Tyrone    |          | 139-11-NE4      | Sand/Gravel                      | n                    | Y                      |
| 194      | W & J Chambers Ltd                      | Ballyheather Rd       | Donemana        | Tyrone    | BT82 0LN |                 | Sand/Gravel                      | n                    | Y                      |
| 195      | Lisbunny Quarry                         | Longlands Rd          | Claudy          | L'Derry   | BT47 4JF |                 | Limestone                        | n                    | Y                      |
| 196      | Magheraglass Quarry                     | Magheraglass Rd       | Cookstown       |           |          | 273000E 377200N | Sand/Gravel                      | n                    | Y                      |
| 197      | George Crawford & Son Ltd               | Slon Finn             | Fintona         | Tyrone    |          |                 | Sand/Gravel                      | n                    | Y                      |
| 198      | A T Sand & Gravel Ltd                   | 56 Cavanoneill Rd     | Pomeroy         | Tyrone    | BT70 2SH |                 | Sand/Gravel                      | n                    | Y                      |
| 199      | ST & K Hanna                            | 58 Moor Rd            | Kilkeel         | Down      | BT34 4NQ | 3J31S 14S       | Sand/Gravel                      | n                    | Y                      |
| 200      | Loughran Rock Industries                | 55 Friary Rd          | Clady Beg       | Armagh    |          | H2926 3327      | Shale                            | n                    | Y                      |
| 201      | Riddells Bros Ltd                       | 35 Castlewarren Rd    | Donemana        | Tyrone    | BT82 0PJ |                 | Sand/Gravel                      | n                    | Y                      |
| 202      | Drumboory                               | Loughshore Rd         | Enniskillen     | Fermanagh | BT74 5NN | H201S 4740      | Shale/Limestone                  | n                    | Y                      |
| 203      | Leestone Sand & Gravel Ltd              | 79 Moor Rd            | Kilkeel         | Down      |          | J932141 J314S48 | Sand/Gravel                      | n                    | Y                      |
| 204      | Jordans Quarry                          | Redergan Rd           | Garvaghey       | Tyrone    |          | 52697 61404     | Sand/Gravel                      | n                    | Y                      |
| 205      | Supermix Quarry                         | Baronscourt Rd        | Newtownstewart  | Tyrone    |          |                 | Sand/Gravel                      | n                    | Y                      |
| 206      | Owenreagh Gravel Co Ltd                 | 122 Moneygar Rd       | Trillick        | Tyrone    | BT78 3QH | 6H379 553F      | Sand/Clay/Gravel/Sandstone/Shale | n                    | Y                      |
| 207      | GRJ Enterprises Ltd                     | 109 Longstone Rd      | Kilkeel         | Down      | BT34 4XA | 28746 12466     | Sand/Clay/Gravel                 | n                    | Y                      |
| 208      | R J Donaghy & sons                      | Fegarran Rd           | Cookstown       | Tyrone    |          |                 | Sand/Gravel                      | n                    | Y                      |
| 209      | R J Donaghy & sons                      | Newline Rd            | Dunamore        | Tyrone    |          |                 | Sand/Gravel                      | n                    | Y                      |
| 210      | Geotech Construction Ltd                | 33 Shannaghery Rd     | Pomeroy         | Tyrone    | BT70 2TT |                 | Greywhacke                       | n                    | Y                      |
| 211      | Cookstown Quarry                        | Fegarran Rd           | Cookstown       | Tyrone    |          | 277679 381080   | Basalt                           | n                    | Y                      |
| 212      | F P McCann                              | Glenshane Rd          | Dungiven        | L'Derry   | BT45 4SD | 276337 406404   | Basalt                           | n                    | Y                      |
| 213      | Lisburn Envirocare Ltd                  | Trummery Lane         | Molra           | Down      |          | J1730 6280      | Basalt                           | n                    | Y                      |
| 214      | Hightown Quarry                         | Shanes Hill Rd        | Kilwaughter     | Antrim    |          | J 345999        | Basalt                           | n                    | Y                      |
| 215      | Tornagrough Quarry                      | Tornagrough Rd        | Hannahstown     | Antrim    |          | J2877 7775      | Basalt                           | n                    | Y                      |
| 216      | Wolffhill Quarry                        | Ballyhill Rd          | Legoniel        | Antrim    |          | 67220 06251     | Basalt/Sand/Gravel               | n                    | Y                      |
| 217      | Murphy's Construction Materials Ltd     | 82 Magheramore Rd     | Dungiven        | L'derry   | BT47 4SP | E362 N879       | Sand/Gravel                      | n                    | Y                      |
| 218      | Thomas Kane & sons                      | Old Bridge Rd         | Newtownstewart  | Tyrone    |          |                 | Basalt/Red laterite/Vesicular    | n                    | Y                      |
| 219      | Cam Quarry                              | 39 Cam Rd             | Macossquin      |           | BTS1 4PX | 424500 277800   | Basalt/Red laterite/Vesicular    | n                    | Y                      |
| 220      | School Pit                              | Camlough Rd           | Pomeroy         | Tyrone    |          | H762 654        | Sand/Gravel                      | n                    | Y                      |

| ALCS No. | Quarry Name                    | Address             | Town            | County  | Postcode | Grid Ref         | Type of Site sand/gravel etc | Lough Neagh Area Y/N | Certificate Issued Y/N |
|----------|--------------------------------|---------------------|-----------------|---------|----------|------------------|------------------------------|----------------------|------------------------|
| 221      | Tyrone Sand & Gravel Ltd       | 99 Mulvin Rd        | Victoria Bridge | Tyrone  | BT92 9JR | S-138-01 5138-02 | Sand/Gravel                  | n                    | Y                      |
| 222      | Cemex (NI) Ltd                 | Cloughfin Rd        | Lurgan boy      | Tyrone  | BT70 2HZ | 158-7 6095 6274  | Sand/Gravel                  | n                    | Y                      |
| 223      | Donnelly Quarries Ltd          | 49 Ballynacloska Rd | Silverbridge    | Down    | BT35 9LS | 417/103          | Gritstone/Greywhacke/Shale   | n                    | n                      |
| 224      | Omagh Minerals Ltd             | S6 Botera Upper Rd  | Omagh           | Tyrone  | BT78 5LH | H4025 7080       | metalliferous Ores/Schist    | n                    | n                      |
| 225      | Mallaghan Convenience D.I.Y    | Brackaghillslea Rd  | Draperstown     |         |          | H814 942         | Sand                         | n                    | Y                      |
| 226      | Tullyvar Waste Company         | 130 Tullyvar Rd     | Aughnacloy      | Tyrone  | BT69 6BN | H647 549         | Mudstone/Limestone           | n                    | n                      |
| 227      | Newell Sand & Gravel Ltd       | Cranfield Rd        | Kilkeel         | Down    |          | 284-115W         | Sand/Gravel                  | n                    | Y                      |
| 228      | Core Aggregates                | 15 Crancussy Rd     | Evisnacrancussy | Tyrone  |          | H6723 7849       | Sand/Gravel/Sandstone        | n                    | Y                      |
| 229      | Dunbeg Quarry Gravel Pit       | Broad Rd            | Limavady        |         |          | 747 262          | Sand/Gravel                  | n                    | Y                      |
| 230      | Riddles Bros Ltd               | Tornage Rd          | Donemana        | Tyrone  | BT82 05L | 24909 39910      | Sand/Gravel                  | n                    | n                      |
| 231      | Vow Sand & Gravel              | 101 Vow Rd          | Ballymoney      | Antrim  | BT53 7NX |                  | Sand/Gravel                  | n                    | Y                      |
| 232      | Bagnall Ltd                    | Knockaleary Rd      | Cookstown       | Tyrone  |          | H2724 3765       | Sand/Gravel                  | n                    | n                      |
| 233      | T J Gillespie                  | Aghnahoo Rd         | Killen          |         |          |                  | Shale                        | n                    | Y                      |
| 234      | GRJ Enterprises Ltd            | Greencastle Rd      | kilkeel         | Down    | BT34 4JP | J2873 1249       | Sand/Clay/Gravel             | n                    | n                      |
| 235      | Gortree Quarry                 | Gortree Rd          | Drumahoe        | L'derry |          | 54-59N 7-14W     | Greywhacke/Limestone         | n                    | n                      |
| 236      | Shanlieve Stone Ltd            | 17 Glenvale Rd      | Newry           | Down    | BT34 2JX | 252-165E         | Granite                      | n                    | n                      |
| 237      | Derryogue Sand & Gravel Co Ltd | Cranfield Rd        | Kilkeel         | Down    | BT34 4LQ | 311500 328250    | Sand/Gravel                  | n                    | n                      |
| Totals   |                                | Total               |                 |         |          |                  |                              |                      |                        |

| ALCS No. | Quarry Name                    | Withdrawn  | No of suspension notices | Suspension due to non compliance | No of IEMA audits | IEMA Audit 1 (Date) | IEMA Audit 2 (Date) | IEMA Audit 3 (Date) | No of Improvement Notices | Improvement Notice 1 (Date) | Improvement Notice 2 (Date) | Improvement Notice 3 (Date) | Improvement Notice 4 (Date) | Improvement Notice 5 (Date) |
|----------|--------------------------------|------------|--------------------------|----------------------------------|-------------------|---------------------|---------------------|---------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 1        | Navan Quarries                 | 22/06/2006 |                          |                                  | 1                 | Oct-05              |                     |                     | 1                         | Apr-06                      |                             |                             |                             |                             |
| 2        | Tynan Quarry                   |            |                          |                                  | 3                 | Oct-05              | Mar-08              | Apr-10              | 4                         | Apr-06                      | May-07                      | Jun-08                      | Nov-09                      |                             |
| 3        | D Acheson (Navan Quarries) Ltd |            |                          |                                  | 3                 | Oct-05              | Mar-08              | Apr-10              | 2                         | Apr-06                      | Jul-08                      |                             |                             |                             |
| 4        | Acheson & Glover Ltd           | 15/05/2008 |                          |                                  | 1                 | Sep-05              |                     |                     | 1                         | Apr-06                      |                             |                             |                             |                             |
| 5        | Acheson & Glover               |            |                          |                                  | 3                 | Oct-05              | February 2006       | Feb-10              | 1                         | Apr-06                      |                             |                             |                             |                             |
| 6        | Acheson & Glover Ltd           | 15/05/2008 |                          |                                  | 1                 | Sep-05              |                     |                     | 1                         | Apr-06                      |                             |                             |                             |                             |
| 7        | Acheson & Glover Ltd           |            |                          |                                  | 3                 | May-05              | Mar-08              | Feb-10              | 3                         | Apr-06                      | Sep-07                      | Jan-09                      |                             |                             |
| 8        | Acheson & Glover Ltd           |            |                          |                                  | 3                 | Jun-05              | Nov-07              | Nov-09              | 2                         | Apr-06                      | Aug-07                      |                             |                             |                             |
| 9        | Acheson & Glover Ltd           | 15/05/2008 |                          |                                  | 2                 | Aug-05              | Aug-07              |                     | 2                         | Apr-06                      | Jun-07                      |                             |                             |                             |
| 10       | Annett Sand & Gravel Ltd       |            |                          |                                  | 3                 | Dec-05              | May-08              | Jun-10              | 3                         | May-06                      | May-07                      | Oct-08                      |                             |                             |
| 11       | Armagh City Quarries           |            |                          |                                  | 3                 | Mar-05              | Mar-08              | Mar-10              | 3                         | May-06                      | Sep-07                      | Jun-08                      |                             |                             |
| 12       | Crocknamolt Quarry             |            | 1                        | 24/02/2010                       | 2                 | May-06              | Sep-08              |                     | 4                         | Oct-06                      | Sep-07                      | Feb-09                      | Jul-09                      |                             |
| 13       | Aughrim Quarries Ltd           |            |                          |                                  | 1                 | Dec-05              |                     |                     | 1                         | Oct-06                      |                             |                             |                             |                             |
| 14       | Drohan Quarry                  |            |                          |                                  | 3                 | Feb-06              | Aug-10              | Sep-10              | 3                         | Oct-06                      | Dec-07                      | Feb-09                      |                             |                             |
| 15       | Aughafad Quarry                |            |                          |                                  | 3                 | Jul-05              | Aug-08              | Jul-10              | 4                         | Jun-06                      | Nov-07                      | Nov-08                      | Jul-09                      |                             |
| 16       | G E Baillantine                |            | 1                        | 01/10/2009                       | 1                 | Jul-05              |                     |                     | 3                         | May-06                      | Feb-07                      | Jan-09                      |                             |                             |
| 17       | Barrack Hill Quarries Ltd      |            |                          |                                  | 3                 | Nov-05              | Jun-08              | Apr-10              | 3                         | May-06                      | Sep-07                      | Aug-08                      |                             |                             |
| 18       | John Bell & Son                | 04/07/2007 |                          |                                  | 1                 | not dated           |                     |                     | 1                         | May-06                      |                             |                             |                             |                             |
| 19       | Stanley Bell & Sons Ltd        |            |                          |                                  | 3                 | not dated           | May-08              | Jun-10              | 3                         | Mar-08                      | Nov-08                      | Nov-09                      |                             |                             |
| 20       | Bonds Glen Quarry              |            |                          |                                  | 3                 | Oct-05              | May-08              | May-10              | 5                         | May-06                      | Oct-07                      | Aug-08                      | Jan-09                      | Jul-09                      |
| 21       | Tully Quarry                   |            |                          |                                  | 3                 | Nov-05              | Jun-08              | May-10              | 2                         | Jun-06                      | Sep-08                      |                             |                             |                             |
| 22       | Mallusk Quarry                 |            |                          |                                  | 3                 | Aug-07              | Apr-10              | Oct-10              | 4                         | Oct-06                      | Oct-07                      | Mar-09                      | Jun-10                      |                             |
| 23       | Cralgall Quarry                |            |                          |                                  | 3                 | Apr-07              | May/June 2008       | May-10              | 3                         | May-06                      | Jun-07                      | Jan-09                      |                             |                             |
| 24       | Campbell Contracts             |            |                          |                                  | 3                 | Apr-06              | Oct-08              | Sep-10              | 4                         | Sep-06                      | Jul-07                      | Mar-09                      | May-09                      |                             |
| 25       | Campsie Sand & gravel Ltd      |            |                          |                                  | 3                 | Mar-06              | Jun-08              | Jun-10              | 3                         | May-06                      | Oct-07                      | Aug-08                      |                             |                             |
| 26       | W & J Chambers Ltd             |            |                          |                                  | 2                 | Nov-05              | Mar-09              |                     | 3                         | Feb-07                      | May-07                      | Jun-09                      |                             |                             |
| 27       | Clady Quarries                 |            |                          |                                  | 2                 | Feb-06              | Nov-08              |                     | 5                         | Aug-06                      | Dec-07                      | Mar-09                      | Sep-09                      | Mar-10                      |
| 28       | P Clarke & Sons Ltd            |            |                          |                                  | 3                 | Nov-05              | May-08              | Apr-10              | 4                         | May-06                      | Oct-07                      | Jan-09                      | Sep-10                      |                             |
| 29       | Collen Bros Quarries Ltd       |            |                          |                                  | 3                 | Jul-05              | Sep-08              | May-10              | 3                         | Jun-06                      | Feb-08                      | Jan-09                      |                             |                             |
| 30       | Conway Brothers                |            |                          |                                  | 3                 | Feb-06              | Sep-08              | Sep-10              | 3                         | Sep-06                      | Nov-07                      | Jan-09                      |                             |                             |
| 31       | Blackhill Aggregates Ltd       |            |                          |                                  | 2                 | Mar-06              | Aug-09              |                     | 3                         | Sep-06                      | Nov-09                      | May-10                      |                             |                             |
| 32       | Falaghern No 2 Quarry          |            |                          |                                  | 2                 | Nov-05              | Sep-08              |                     | 4                         | Sep-06                      | Mar-08                      | Feb-09                      | Nov-09                      |                             |
| 33       | Cootes (concrete Products) Ltd |            |                          |                                  | 2                 | Jun-05              | Sep-08              |                     | 5                         | Sep-06                      | Feb-08                      | Feb-09                      | Jun-09                      | Nov-09                      |
| 34       | George Crawford & Son          |            |                          |                                  | 2                 | Nov-05              | Nov-08              |                     | 3                         | Nov-06                      | Oct-07                      | Mar-09                      |                             |                             |
| 35       | Braghdysart Quarry             |            |                          |                                  | 3                 | Oct-05              | Oct-08              | Sep-10              | 3                         | Jul-06                      | Nov-07                      | Jan-09                      |                             |                             |
| 36       | Outlack Rd                     |            |                          |                                  | 3                 | Nov-05              | Mar-08              | Feb-10              | 5                         | Feb-06                      | Jun-07                      | Jul-08                      | Nov-08                      | Sep-09                      |
| 37       | Deane Public Works Ltd         |            |                          |                                  | 1                 | May-05              |                     |                     | 2                         | Jun-06                      | Apr-09                      |                             |                             |                             |
| 38       | Derryogue Sand Co Ltd          |            |                          |                                  | 3                 | May-06              | Nov-08              | Sep-10              | 3                         | Sep-06                      | Sep-07                      | Mar-09                      |                             |                             |
| 39       | Devine's Sand & Gravel         |            |                          |                                  | 3                 | Jun-05              | Apr-09              | Mar-10              | 4                         | May-06                      | Oct-07                      | Jun-08                      | Sep-08                      |                             |
| 40       | R J Donaghy & sons             |            |                          |                                  | 2                 | Jan-06              | May-08              |                     | 3                         | Feb-06                      | May-07                      | Aug-08                      |                             |                             |
| 41       | Gregory Donnelly Sand & Gravel |            |                          |                                  | 3                 | May-06              | Sep-08              | Sep-10              | 4                         | Jun-07                      | Mar-08                      | Jan-09                      | Aug-10                      |                             |
| 42       | Thomas Doran                   | 22/03/2005 |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 43       | Moyard Properties Ltd          |            |                          |                                  | 2                 | Jan-06              | Sep-08              |                     | 3                         | Jun-07                      | Oct-07                      | May-09                      |                             |                             |
| 44       | Budore Quarries                |            |                          |                                  | 3                 | Oct-05              | Mar-08              | Apr-10              | 3                         | Apr-06                      | Oct-07                      | Jun-08                      |                             |                             |

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|----------|----------------------------------------|------------|--------------------------|----------------------------------|-------------------|---------------------|---------------------|---------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 45       | Edenrillick Quarries Ltd               | 06/12/2004 |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 46       | Elliott Bros                           |            | 3                        |                                  | 3                 | May-05              | Feb-08              | Feb-10              | 2                         | Mar-06                      | Jun-07                      |                             |                             |                             |
| 47       | Ardmore Sand                           |            | 3                        |                                  | 3                 | Jan-06              | Sep-08              | Sep-09              | 3                         | Sep-06                      | Mar-08                      | Mar-09                      |                             |                             |
| 48       | Washing Plant                          | 14/11/2005 |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 49       | Norman Emerson & sons Ltd              | 14/11/2005 |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 50       | Lisbane Quarry                         |            | 3                        |                                  | 3                 | Nov-05              | Jul-08              | Jul-10              | 4                         | Jul-06                      | Nov-07                      | Nov-08                      | Nov-09                      |                             |
| 51       | Norman Emerson & sons Ltd              | 14/11/2005 |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 52       | Ready Mixed Concrete Plant             | 14/11/2005 |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 53       | Magherglass Sand Pit                   |            | 3                        |                                  | 3                 | Nov-05              | Jul-08              | Jul-10              | 4                         | Jul-06                      | Jul-07                      | Dec-08                      | Nov-09                      |                             |
| 54       | Leod Quarries                          |            | 3                        |                                  | 3                 | Jul-05              | Mar-08              | Mar-10              | 3                         | Mar-06                      | Aug-07                      | Jul-08                      |                             |                             |
| 55       | GRJ Enterprises Ltd                    | 04/11/2004 |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 56       | Comamucklagh Quarry                    |            | 2                        |                                  | 2                 | May-06              | Aug-08              |                     | 2                         | Aug-06                      | Sep-07                      |                             |                             |                             |
| 57       | Gibson Bros Ltd                        |            | 3                        |                                  | 3                 | May-06              | Aug-08              | Sep-10              | 3                         | Aug-06                      | Dec-08                      | Mar-09                      |                             |                             |
| 58       | J Gourley & Son                        |            | 3                        |                                  | 3                 | Oct-05              | Mar-08              | Mar-10              | 3                         | Apr-06                      | Aug-07                      | Jun-08                      |                             |                             |
| 59       | Deer Park Quarry                       |            | 3                        |                                  | 3                 | Oct-05              | Jan-08              | Mar-10              | 3                         | Mar-06                      | Jul-07                      | Jul-08                      |                             |                             |
| 60       | Northstone (NI) Ltd                    |            | 3                        |                                  | 3                 | Feb-06              | Nov-08              | Oct-10              | 3                         | Sep-06                      | Apr-09                      | Apr-10                      |                             |                             |
| 61       | Seamus Grogan Jnr                      |            | 3                        |                                  | 3                 | Jul-05              | May-08              | May-10              | 3                         | Jun-06                      | Jul-07                      | Aug-08                      |                             |                             |
| 62       | Grogan Quarries Ltd                    |            | 3                        |                                  | 3                 | Jul-05              | May-08              | May-10              | 4                         | Apr-06                      | Aug-07                      | Aug-08                      | Jun-10                      |                             |
| 63       | Hackett Brothers                       |            | 3                        |                                  | 3                 | Jun-06              | Nov-08              | Jun-10              | 3                         | Sep-06                      | Sep-07                      | Sep-09                      |                             |                             |
| 64       | Cashel Quarry                          |            | 3                        |                                  | 3                 | Jul-05              | Mar-08              | Mar-10              | 3                         | Mar-08                      | Jul-08                      | Apr-10                      |                             |                             |
| 65       | Patrick J Heaney                       |            | 2                        |                                  | 2                 | Jul-06              | Feb-09              |                     | 3                         | Sep-06                      | May-07                      | Mar-09                      |                             |                             |
| 66       | Heron Bros Ltd                         |            | 2                        |                                  | 2                 | Jul-06              | Oct-08              |                     | 3                         | Sep-06                      | Mar-09                      | Jun-09                      |                             |                             |
| 67       | R Hogg & Sons Ltd                      |            | 3                        |                                  | 3                 | Jan-06              | Mar-08              | Mar-10              | 2                         | Mar-06                      | Feb-08                      |                             |                             |                             |
| 68       | W D Irwin & Sons Ltd                   |            | 3                        |                                  | 3                 | Nov-05              | Jun-08              | Sep-10              | 3                         | May-06                      | Oct-07                      | Aug-08                      |                             |                             |
| 69       | JDC Joinery & Building Works           |            | 2                        |                                  | 2                 | Jan-06              | Jul-08              |                     | 3                         | May-06                      | Feb-08                      | Aug-08                      |                             |                             |
| 70       | M W Johnston & Son                     |            | 3                        |                                  | 3                 | Aug-05              | Jul-08              | Jun-10              | 2                         | Jun-06                      | Sep-08                      |                             |                             |                             |
| 71       | Jordans Quarry                         |            | 3                        |                                  | 3                 | Jan-06              | Mar-08              | Mar-10              | 3                         | Feb-06                      | Feb-08                      | Mar-09                      |                             |                             |
| 72       | Thomas Kane & sons                     |            | 3                        |                                  | 3                 | Aug-05              | Apr-08              | Jun-10              | 3                         | May-06                      | Oct-07                      | Aug-08                      |                             |                             |
| 73       | Convanaghan Quarry                     |            | 2                        |                                  | 2                 | Aug-06              | Dec-08              |                     | 3                         | Sep-06                      | Mar-08                      | Mar-09                      |                             |                             |
| 74       | Dunloy Quarry                          |            | 2                        |                                  | 2                 | Aug-06              | Dec-08              |                     | 3                         | Sep-06                      | Nov-07                      | Apr-09                      |                             |                             |
| 75       | Rocktown Quarry                        |            | 2                        |                                  | 2                 | Aug-06              | Dec-06              |                     | 3                         | Sep-06                      | Mar-08                      | Feb-09                      |                             |                             |
| 76       | Whitemountain Quarries Ltd             |            | 2                        |                                  | 2                 | Oct-05              | Dec-08              |                     | 3                         | Mar-06                      | Oct-07                      | May-09                      |                             |                             |
| 77       | Kilwaughter Chemical Co Ltd            |            | 3                        |                                  | 3                 | Sep-05              | Mar-08              | Mar-10              | 3                         | Mar-06                      | Dec-07                      | May-08                      |                             |                             |
| 78       | Leestone Sand & Gravel Ltd             |            | 1                        |                                  | 1                 | Feb-06              |                     |                     | 2                         | Jun-06                      | Sep-07                      |                             |                             |                             |
| 79       | L D Aggregates Ltd                     |            | 3                        | 11-Mar-09                        | 3                 | Nov-06              | May-09              | Aug-09              | 4                         | Feb-07                      | Jun-08                      | Jul-09                      | Apr-10                      |                             |
| 80       | Charles Loughran                       | 08/11/2005 |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 81       | Loughran Quarries                      |            | 3                        |                                  | 3                 | Mar-06              | Nov-08              | Apr-10              | 3                         | Sep-06                      | Mar-08                      | Feb-09                      |                             |                             |
| 82       | Loughside Quarries                     |            | 3                        |                                  | 3                 | Nov-05              | Jun-08              | Jun-10              | 3                         | Jun-06                      | Sep-07                      | Oct-08                      |                             |                             |
| 83       | Mallaghan Convenience DIY Products Ltd | 30-Apr-06  |                          |                                  |                   |                     |                     |                     | 0                         |                             |                             |                             |                             |                             |
| 84       | Martins Quarry                         |            | 3                        |                                  | 3                 | Aug-05              | Feb-08              | Jul-10              | 3                         | Apr-06                      | Sep-07                      | Jun-08                      |                             |                             |
| 85       | Croaghan Depot                         |            | 3                        |                                  | 3                 | Oct-05              | Apr-08              | May-10              | 3                         | Apr-06                      | Oct-07                      | Jun-08                      |                             |                             |
| 86       | Northstone (NI) Ltd                    |            | 3                        |                                  | 3                 | Oct-05              | Apr-08              | May-10              | 3                         | Apr-06                      | Nov-07                      | Jun-08                      |                             |                             |
| 87       | Northstone (NI) Ltd                    |            | 3                        |                                  | 3                 | Oct-05              | Apr-08              | May-10              | 3                         | Apr-06                      | May-07                      | Jun-08                      |                             |                             |
| 88       | Carmean Limestone                      |            | 3                        |                                  | 3                 | Oct-05              | Apr-08              | May-10              | 2                         | Apr-06                      | May-08                      |                             |                             |                             |

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|----------|----------------------------------|------------|--------------------------|----------------------------------|-------------------|---------------------|---------------------|---------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 89       | Northstone (NI) Ltd              |            |                          |                                  | 3                 | Oct-05              | Apr-08              | May-10              | 3                         | Apr-06                      | Mar-08                      | Jun-08                      |                             |                             |
| 90       | Northstone (NI) Ltd              |            |                          |                                  | 3                 | Oct-05              | Apr-08              | May-10              | 2                         | Apr-06                      | Jun-08                      |                             |                             |                             |
| 91       | Northstone (NI) Ltd              | 21/10/2009 |                          |                                  | 2                 | Oct-05              | Apr-08              |                     | 3                         | Apr-06                      | Jun-08                      | Jun-09                      |                             |                             |
| 92       | Patrick Magoran                  | 14/05/2008 |                          |                                  | 1                 | May-06              |                     |                     | 2                         | Sep-06                      | Jul-07                      |                             |                             |                             |
| 93       | Millburn Concrete                |            |                          |                                  | 2                 | Aug-06              | Aug-08              |                     | 3                         | Sep-06                      | Dec-07                      | Feb-09                      |                             |                             |
| 94       | Miskelly Brothers                |            |                          |                                  | 3                 | Sep-05              | Jul-08              | Mar-10              | 3                         | Mar-06                      | Aug-07                      | Jul-08                      |                             |                             |
| 95       | R J Mitten & Sons                |            |                          |                                  | 3                 | Jan-06              | Aug-08              | Jul-10              | 3                         | Jul-06                      | Nov-07                      | January 2009                |                             |                             |
| 96       | R J Mitten & Sons                |            |                          |                                  | 3                 | Oct-05              | Feb-08              | Mar-10              | 3                         | Mar-06                      | Jun-06                      | Jun-08                      |                             |                             |
| 97       | Moore Sand & Gravel              | 08/05/2006 |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 98       | J Morgan & Sons (Mayobridge) Ltd |            |                          |                                  | 3                 | May-05              | Jun-08              | Jun-10              | 4                         | Nov-07                      | Mar-08                      | Sep-08                      | Apr-10                      |                             |
| 99       | A E Mulholland & Sons            |            |                          |                                  | 3                 | Jan-06              | Oct-08              | Oct-10              | 3                         | Sep-06                      | Jun-07                      | Mar-09                      |                             |                             |
| 100      | Mulholland Bros. (B&S) Ltd       |            |                          |                                  | 2                 | Feb-06              | Aug-08              |                     | 4                         | Jul-06                      | Oct-07                      | Nov-08                      | Jul-09                      |                             |
| 101      | Cam Quarry                       |            |                          |                                  | 3                 | Jul-06              | Sep-08              | Sep-10              | 3                         | Sep-06                      | Dec-06                      | Mar-09                      |                             |                             |
| 102      | Neil Mullan & Sons Ltd           |            |                          |                                  | 3                 | Nov-05              | Jul-08              | May-10              | 3                         | Jun-06                      | Sep-07                      | Oct-08                      |                             |                             |
| 103      | Michael McAleer                  |            |                          |                                  | 2                 | Dec-06              | Feb-09              |                     | 5                         | Feb-07                      | Jun-08                      | Apr-09                      | Jul-09                      | Sep-10                      |
| 104      | B McCaffrey & Sons Ltd           |            |                          |                                  | 3                 | Jun-05              | Jun-08              | Jun-10              | 3                         | Jun-06                      | Nov-07                      | Sep-08                      |                             |                             |
| 105      | McCaffrey Concrete Products Ltd  |            | 1                        | 17/11/2008                       | 1                 | Nov-05              |                     |                     | 2                         | Sep-06                      | May-08                      |                             |                             |                             |
| 106      | McCaffrey Aggregates Ltd         |            |                          |                                  | 2                 | Nov-05              | Sep-08              |                     | 4                         | Sep-06                      | Apr-07                      | Jun-09                      | Apr-10                      |                             |
| 107      | Knockloughrim Quarry             |            |                          |                                  | 3                 | Sep-05              | Dec-07              | Jun-10              | 3                         | Jun-06                      | Nov-07                      | Jun-08                      |                             |                             |
| 108      | Thomas Quarry                    | Jan-06     |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 109      | Ballymagreehan Quarry            |            |                          |                                  | 2                 | Nov-06              | Mar-09              |                     | 3                         | Nov-06                      | May-08                      | Jun-09                      |                             |                             |
| 110      | W J M McCormick & Sons Ltd       |            |                          |                                  | 3                 | Jun-05              | Jul-08              | May-10              | 3                         | Jun-06                      | Aug-07                      | Oct-08                      |                             |                             |
| 111      | McGarrihty Bros Ltd              |            |                          |                                  | 3                 | Jan-06              | Aug-08              | Jun-10              | 4                         | Jun-06                      | Jun-08                      | Nov-08                      | Aug-09                      |                             |
| 112      | McGirr Bros Quarries             |            |                          |                                  | 3                 | Oct-05              | Apr-08              | Apr-10              | 4                         | Apr-06                      | Mar-07                      | Jun-08                      | Sep-09                      |                             |
| 113      | Gilkey Hill                      |            |                          |                                  | 1                 | Oct-05              |                     |                     | 1                         | May-06                      |                             |                             |                             |                             |
| 114      | Murnies Sandpit                  |            |                          |                                  | 3                 | Oct-05              | Nov-08              | Oct-10              | 4                         | May-06                      | Oct-07                      | Mar-09                      | Jan-10                      |                             |
| 115      | J O'Connor & Sons                |            |                          |                                  | 3                 | Jan-06              | Sep-08              | Aug-10              | 3                         | Sep-06                      | Jun-09                      | Jan-10                      |                             |                             |
| 116      | O'Hagan Plant                    |            |                          |                                  | 3                 | Oct-05              | Aug-08              | Jul-10              | 3                         | Jun-06                      | Jul-07                      | Oct-08                      |                             |                             |
| 117      | Demesne Quarry                   |            |                          |                                  | 3                 | Oct-05              | Jun-08              | Jun-10              | 3                         | Jun-06                      | May-07                      | Sep-08                      |                             |                             |
| 118      | Owenreagh Gravel Ltd             | 31/03/2006 |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 119      | T & C Patterson                  | 30/06/2010 |                          |                                  | 2                 | May-06              | Oct-08              |                     | 2                         | Sep-06                      | Dec-08                      |                             |                             |                             |
| 120      | Quinn Concrete Ltd               |            |                          |                                  | 3                 | May-05              | Jun-08              | Jun-10              | 3                         | Jun-06                      | Apr-08                      | Oct-08                      |                             |                             |
| 121      | Quinn Group Ltd                  |            |                          |                                  | 3                 | May-05              | Jun-08              | Jun-10              | 3                         | Jun-06                      | Nov-07                      | Oct-08                      |                             |                             |
| 122      | Aughrim Quarry                   | Jul-05     |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 123      | Banbridge Quarry                 | Jun-08     |                          |                                  | 2                 | Mar-05              | Jan-08              |                     | 3                         | Mar-06                      | Nov-07                      | Jul-08                      |                             |                             |
| 124      | Carrowdore Quarry                |            |                          |                                  | 3                 | Nov-04              | Dec-07              | Apr-10              | 3                         | Mar-06                      | Aug-07                      | Jul-08                      |                             |                             |
| 125      | Cemex (NI) Ltd                   |            |                          |                                  | 3                 | Jan-05              | Jun-08              | Jul-10              | 3                         | Jul-06                      | Dec-08                      | May-09                      |                             |                             |
| 126      | Ballynahaye Rd                   |            |                          |                                  | 3                 | Aug-05              | Apr-08              | Aug-10              | 3                         | Jul-06                      | Sep-07                      | Jan-09                      |                             |                             |
| 127      | Cemex (NI) Ltd                   | Apr-08     |                          |                                  | 2                 | Dec-05              | Apr-08              |                     | 1                         | Jul-06                      |                             |                             |                             |                             |
| 128      | Cairnhill Quarry                 | Mar-08     |                          |                                  | 1                 | Jun-06              |                     |                     | 1                         | Sep-06                      |                             |                             |                             |                             |
| 129      | Kelly's Pit                      |            |                          |                                  | 3                 | Nov-05              | Apr-08              | Jul-10              | 3                         | Jul-06                      | Dec-08                      | Apr-09                      |                             |                             |
| 130      | Reid Bros                        |            |                          |                                  | 2                 | Jun-06              | Sep-08              |                     | 3                         | Sep-06                      | Jan-09                      | Aug-09                      |                             |                             |
| 131      | Riddles Bros Ltd                 |            | 1                        | 27/09/2010                       | 3                 | Aug-05              | Feb-08              | Mar-10              | 3                         | Mar-06                      | Aug-07                      | May-08                      |                             |                             |
| 132      | Riverside Sand & Gravel Ltd      |            |                          |                                  | 2                 | Mar-06              | Jun-10              |                     | 1                         | Sep-06                      |                             |                             |                             |                             |

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| 133      | Craigs Quarry                        |            |                          |                                  | 3                 | Oct-05              | Jan-08              | Mar-10            | Mar-10              | 3                         | Mar-06                      | Oct-07                      | May-08                      |                             |                             |
| 134      | Robert Robinson & Son                |            |                          |                                  | 3                 | Jan-06              | Jun-08              | Jul-10            | Jul-10              | 4                         | Jul-06                      | May-07                      | Nov-08                      | Jan-09                      |                             |
| 135      | Robert Robinson & Son                |            |                          |                                  | 3                 | Oct-06              | Nov-08              | Oct-10            | Oct-10              | 3                         | Nov-06                      | Mar-09                      | May-09                      |                             |                             |
| 136      | Ballycastle Quarry                   |            |                          |                                  | 3                 | May-06              | Aug-08              | Aug-10            | Aug-10              | 3                         | Aug-06                      | Jan-09                      | Apr-10                      |                             |                             |
| 137      | Sandybay Site                        |            |                          |                                  | 3                 | Sep-05              | Feb-08              | Mar-10            | Mar-10              | 3                         | Apr-06                      | Jul-07                      | May-08                      |                             |                             |
| 138      | Ballyginniff site                    |            |                          |                                  | 3                 | Sep-05              | Feb-08              | Mar-10            | Mar-10              | 3                         | Apr-06                      | May-08                      | Aug-09                      |                             |                             |
| 139      | Hutchinsons site                     |            |                          |                                  | 3                 | Sep-05              | Feb-08              | Mar-10            | Mar-10              | 3                         | Apr-06                      | May-08                      | Jul-09                      |                             |                             |
| 140      | Shaughan Quarries Ltd                |            |                          |                                  | 2                 | Dec-06              | Jul-09              |                   |                     | 4                         | Feb-07                      | Oct-07                      | Sep-08                      | Aug-09                      |                             |
| 141      | Sluggan Sand Ltd                     |            |                          |                                  | 2                 | Aug-06              | Oct-08              |                   |                     | 3                         | Sep-06                      | Jun-08                      | Mar-09                      |                             |                             |
| 142      | CES Quarry Products Ltd              |            |                          |                                  | 3                 | Jun-05              | Dec-07              | Dec-09            | Dec-09              | 3                         | Mar-06                      | Aug-07                      | Jul-08                      |                             |                             |
| 143      | C E Stevenson & Sons                 | 31/10/2006 |                          |                                  | 1                 | Feb-06              |                     |                   |                     | 1                         | Sep-06                      |                             |                             |                             |                             |
| 144      | CES Quarry Products Ltd              |            |                          |                                  | 3                 | Apr-05              | Nov-07              | Nov-09            | Nov-09              | 3                         | Mar-06                      | Oct-07                      | Jul-08                      |                             |                             |
| 145      | Clinty Quarry                        |            |                          |                                  | 3                 | Jun-05              | Mar-08              | Mar-10            | Mar-10              | 4                         | Mar-06                      | Dec-07                      | Nov-08                      | Jan-09                      |                             |
| 146      | Supermix Ltd                         | 08/01/2008 |                          |                                  |                   |                     |                     |                   |                     | 2                         | Nov-06                      | Oct-07                      |                             |                             |                             |
| 147      | W & J Taggart (Quarries)Ltd          |            | 1                        | 05/03/2009                       | 3                 | Dec-05              | February 2008       | Mar-10            | Mar-10              | 4                         | Mar-06                      | May-07                      | Jun-07                      | Dec-08                      |                             |
| 148      | Craigantlet Quarry                   |            |                          |                                  | 3                 | Apr-05              | Jul-08              | May-10            | May-10              | 3                         | Jun-06                      | Nov-07                      | Oct-08                      |                             |                             |
| 149      | Carn Quarry                          |            |                          |                                  | 3                 | Sep-05              | Jul-08              | Jan-11            | Jan-11              | 3                         | Jun-06                      | Jul-07                      | Oct-08                      |                             |                             |
| 150      | Drumree Quarry                       |            |                          |                                  | 3                 | Oct-05              | Jul-08              | Jan-11            | Jan-11              | 2                         | Jun-06                      | Oct-08                      |                             |                             |                             |
| 151      | Hightown Quarry                      | 03/10/2009 |                          |                                  | 2                 | Sep-05              | Jul-08              |                   |                     | 2                         | Jun-06                      | Sep-08                      |                             |                             |                             |
| 152      | Tobermore concrete Products Ltd      |            |                          |                                  | 3                 | Apr-05              | Sep-05              | Sep-10            | Sep-10              | 3                         | Sep-06                      | Dec-07                      | Mar-09                      |                             |                             |
| 153      | Tullyrairie Quarries Ltd             |            |                          |                                  | 3                 | Oct-05              | Jun-08              | Jun-10            | Jun-10              | 4                         | Jun-06                      | Oct-07                      | Oct-08                      | Sep-09                      |                             |
| 154      | Patrick and John Walls               |            |                          |                                  | 3                 | May-06              | Sep-08              | Sep-10            | Sep-10              | 2                         | Sep-06                      | Oct-08                      |                             |                             |                             |
| 155      | Alfie Watterson                      | Jul-05     |                          |                                  |                   |                     |                     |                   |                     |                           |                             |                             |                             |                             |                             |
| 156      | Blackmountain Quarry                 |            |                          |                                  | 2                 | Nov-05              | Aug-08              |                   |                     | 3                         | Aug-06                      | Oct-07                      | Jan-09                      |                             |                             |
| 157      | Temple Quarry                        |            |                          |                                  | 2                 | Nov-05              | Nov-08              |                   |                     | 3                         | Jul-06                      | Oct-07                      | Mar-09                      |                             |                             |
| 158      | Whitemountain Quarries Ltd           |            |                          |                                  | 2                 | Nov-05              | Jul-08              |                   |                     | 3                         | Jul-06                      | Oct-07                      | Mar-09                      |                             |                             |
| 159      | Whitemountain Quarries Ltd           |            |                          |                                  | 2                 | Nov-05              | Jul-08              |                   |                     | 4                         | Jul-06                      | Oct-07                      | Nov-08                      | Jul-09                      |                             |
| 160      | Ballylig Quarry                      |            |                          |                                  | 3                 | Apr-06              | Sep-08              | Aug-10            | Aug-10              | 4                         | Jul-06                      | Jun-07                      | Dec-08                      | Jun-10                      |                             |
| 161      | Castle Quarries Ltd                  |            | 1                        | 16/04/2009                       | 1                 | Feb-07              |                     |                   |                     | 2                         | Oct-07                      | Dec-08                      |                             |                             |                             |
| 162      | Dobbs Pit                            | May-06     |                          |                                  |                   |                     |                     |                   |                     |                           |                             |                             |                             |                             |                             |
| 163      | Henry Brothers (Magherafelt) Ltd     |            |                          |                                  | 2                 | Mar-06              | Nov-08              |                   |                     | 4                         | Sep-06                      | May-07                      | Jan-09                      | Mar-09                      |                             |
| 164      | Blackhill Aggregates Ltd             |            |                          |                                  | 2                 | Mar-06              | Jul-09              |                   |                     | 2                         | Jan-10                      | May-10                      |                             |                             |                             |
| 165      | Colton Quarries Ltd                  |            |                          |                                  | 2                 | Jul-07              | Jan-10              |                   |                     | 3                         | Dec-07                      | Jun-08                      | Mar-10                      |                             |                             |
| 166      | McAnenly Quarries Ltd                |            | 1                        | 28/01/2008                       | 1                 | Aug-07              |                     |                   |                     |                           |                             |                             |                             |                             |                             |
| 167      | Matthew Robinson & Son Concrete Prod |            |                          |                                  | 3                 | Mar-06              | Sep-08              | Sep-10            | Sep-10              | 3                         | Sep-06                      | Feb-08                      | Jan-09                      |                             |                             |
| 168      | Matthew Robinson & Son Concrete Prod |            |                          |                                  | 3                 | Mar-06              | Sep-08              | Sep-10            | Sep-10              | 3                         | Sep-06                      | Feb-08                      | Jan-09                      |                             |                             |
| 169      | Ballyraig Quarry                     |            |                          |                                  | 2                 | Mar-09              | May-10              |                   |                     | 1                         | Jul-09                      |                             |                             |                             |                             |
| 170      | Henry Brothers (Magherafelt) Ltd     |            |                          |                                  | 1                 | Nov-08              |                     |                   |                     | 3                         | Sep-06                      | May-07                      | Mar-09                      |                             |                             |
| 171      | Bigwood Quarry                       |            |                          |                                  | 2                 | Feb-06              | Nov-08              |                   |                     | 3                         | Sep-06                      | Aug-07                      | May-09                      |                             |                             |
| 172      | Patterson Sand & Gravel              |            | 1                        | 23/05/2008                       | 2                 | May-06              | Apr-10              |                   |                     | 2                         | Sep-06                      | May-08                      |                             |                             |                             |
| 173      | Campbell Sand & Gravel               |            |                          |                                  | 2                 | Jul-07              | Jan-10              |                   |                     | 3                         | Jan-08                      | Oct-08                      | May-10                      |                             |                             |
| 174      | Blackford Sand                       | refused    |                          |                                  |                   |                     |                     |                   |                     |                           |                             |                             |                             |                             |                             |
| 175      | Sherrard (Bros) Sand & Gravel Ltd    |            |                          |                                  | 1                 | Mar-09              |                     |                   |                     | 1                         | Jun-09                      |                             |                             |                             |                             |
| 176      | Wm McLaughlin & sons Ltd             | 03/10/2008 |                          |                                  |                   |                     |                     |                   |                     | 1                         | Feb-07                      |                             |                             |                             |                             |

| ALCS No. | Quarry Name                             | Withdrawn  | No of suspension notices | Suspension due to non compliance | No of IEMA audits | IEMA Audit 1 (Date) | IEMA Audit 2 (Date) | IEMA Audit 3 (Date) | No of Improvement Notices | Improvement Notice 1 (Date) | Improvement Notice 2 (Date) | Improvement Notice 3 (Date) | Improvement Notice 4 (Date) | Improvement Notice 5 (Date) |
|----------|-----------------------------------------|------------|--------------------------|----------------------------------|-------------------|---------------------|---------------------|---------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 177      | Tullyvallen Quarry                      |            |                          |                                  | 3                 | Sep-06              | Oct-08              | Oct-10              | 2                         | Nov-06                      | Mar-09                      |                             |                             |                             |
| 178      | Ernest John Coffey                      |            |                          |                                  | 3                 | Aug-06              | Nov-08              | Oct-10              | 1                         | Jun-08                      |                             |                             |                             |                             |
| 179      | Edendarriff Quarry                      |            |                          |                                  | 2                 | Mar-06              | May-09              |                     | 3                         | Jun-07                      | May-09                      | Aug-09                      |                             |                             |
| 180      | Swan Rock Quarries                      |            |                          |                                  | 2                 | Aug-07              | Feb-10              |                     | 4                         | 01/01/2008                  | Apr-08                      | Jan-09                      | Sep-10                      |                             |
| 181      | Drumree Quarry                          | Dec-05     |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 182      | unused number/duplicate                 |            |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 183      | Heron Bros                              |            |                          |                                  | 1                 | Oct-08              |                     |                     | 4                         | Sep-06                      | Jul-07                      | Mar-09                      | Jun-09                      |                             |
| 184      | King Bros                               |            |                          |                                  | 2                 | Jul-07              | Dec-09              |                     | 4                         | Dec-07                      | Jun-08                      | Sep-09                      | Jan-10                      |                             |
| 185      | Michael Tierney Sand & Gravel           | 20/09/2006 |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 186      | Mullaghtglass Quarry                    |            |                          |                                  | 2                 | Aug-08              | Feb-10              |                     | 1                         | Nov-08                      |                             |                             |                             |                             |
| 187      | Keady Quarry                            |            |                          |                                  | 2                 | Jun-07              | Oct-09              |                     | 3                         | Oct-07                      | Jul-09                      | Jan-10                      |                             |                             |
| 188      | Tony Harley & Sons Ltd                  |            |                          |                                  | 2                 | Aug-07              | Jun-09              |                     | 3                         | Jan-08                      | Jun-08                      | Nov-09                      |                             |                             |
| 189      | Aughrim Quarry                          | 30/06/2008 |                          |                                  | 1                 | Oct-07              |                     |                     | 1                         | Jan-08                      |                             |                             |                             |                             |
| 190      | Stoneyford Building Supplies            |            | 1                        | 10/11/2008                       | 1                 | Apr-07              |                     |                     | 1                         | Oct-07                      |                             |                             |                             |                             |
| 191      | Girvans Sand & Gravel                   | 01/09/2009 |                          |                                  | 1                 | Aug-07              |                     |                     | 3                         | Dec-07                      | Sep-09                      | Nov-09                      |                             |                             |
| 192      | Mallaghan Convenience DIY Producers Ltd | 07/11/2008 |                          |                                  | 1                 | Jun-07              |                     |                     | 1                         | Oct-07                      |                             |                             |                             |                             |
| 193      | Rock Sand & Gravel Ltd                  |            | 1                        | 28/01/2008                       |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 194      | W & J Chambers Ltd                      |            |                          |                                  | 1                 | Mar-09              |                     |                     | 3                         | Feb-07                      | Apr-07                      | Jul-09                      |                             |                             |
| 195      | Lisbunny Quarry                         |            |                          |                                  | 1                 | Mar-09              |                     |                     | 2                         | Apr-07                      | Jul-09                      |                             |                             |                             |
| 196      | Magheraglass Quarry                     |            |                          |                                  | 3                 | Feb-07              | Oct-08              | Sep-10              | 3                         | Jun-07                      | Jan-09                      | Apr-09                      |                             |                             |
| 197      | George Crawford & Son Ltd               |            |                          |                                  | 2                 | Mar-07              | Sep-09              |                     | 3                         | Oct-07                      | Apr-09                      | Nov-09                      |                             |                             |
| 198      | A T Sand & Gravel Ltd                   |            |                          |                                  | 2                 | Aug-07              | Feb-10              |                     | 4                         | Jan-08                      | Oct-08                      | Aug-09                      | May-10                      |                             |
| 199      | ST & K Hanna                            | refused    |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 200      | Loughran Rock Industries                |            |                          |                                  | 1                 | Jul-09              |                     |                     | 2                         | Nov-09                      | Apr-10                      |                             |                             |                             |
| 201      | Riddles Bros Ltd                        |            | 1                        | 27/09/2010                       | 1                 | Nov-07              |                     |                     | 2                         | Sep-08                      | Mar-09                      |                             |                             |                             |
| 202      | Drumboory                               | Jun-09     |                          |                                  | 1                 | Jan-08              |                     |                     | 1                         | Mar-08                      |                             |                             |                             |                             |
| 203      | Leestone Sand & Gravel Ltd              |            |                          |                                  | 2                 | May-08              | Jul-10              |                     | 4                         | Jul-07                      | May-09                      | Apr-10                      | May-10                      |                             |
| 204      | Jordans Quarry                          |            |                          |                                  | 2                 | Mar-08              | Mar-10              |                     | 2                         | Jun-08                      | Mar-09                      |                             |                             |                             |
| 205      | Supermix Quarry                         |            |                          |                                  | 1                 | Mar-09              |                     |                     | 2                         | Oct-07                      | Jun-09                      |                             |                             |                             |
| 206      | Owenreagh Gravel Co Ltd                 |            |                          |                                  | 2                 | Jul-07              | Dec-09              |                     | 3                         | Dec-07                      | Apr-09                      | Mar-10                      |                             |                             |
| 207      | GRJ Enterprises Ltd                     |            | 1                        | 10/02/2010                       | 1                 | Jul-08              |                     |                     | 2                         | Nov-08                      | Jul-09                      |                             |                             |                             |
| 208      | R J Donaghy & sons                      | 26/11/2008 |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 209      | R J Donaghy & sons                      | 21/01/2008 |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 210      | Geotech Construction Ltd                |            |                          |                                  | 1                 | Aug-08              |                     |                     | 2                         | Nov-08                      | Nov-09                      |                             |                             |                             |
| 211      | Cookstown Quarry                        |            |                          |                                  | 2                 | Jan-08              | Mar-10              |                     | 2                         | Mar-08                      | Jun-09                      |                             |                             |                             |
| 212      | F P McCann                              |            |                          |                                  | 2                 | Nov-07              | Mar-10              |                     | 2                         | Mar-08                      | Apr-09                      |                             |                             |                             |
| 213      | Lisburn Envirocare Ltd                  |            |                          |                                  | 2                 | Jan-10              | Nov-10              |                     | 1                         | Mar-10                      |                             |                             |                             |                             |
| 214      | Hightown Quarry                         |            |                          |                                  | 1                 | Aug-09              |                     |                     | 1                         | Sep-09                      |                             |                             |                             |                             |
| 215      | Tornagrough Quarry                      |            |                          |                                  | 1                 | Oct-09              |                     |                     |                           |                             |                             |                             |                             |                             |
| 216      | Wolfhill Quarry                         |            |                          |                                  | 1                 | Oct-09              |                     |                     | 1                         | Oct-10                      |                             |                             |                             |                             |
| 217      | Murphy's Construction Materials Ltd     |            |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 218      | Thomas Kane & sons                      |            |                          |                                  | 2                 | May-08              | Jun-10              |                     | 1                         | Sep-08                      |                             |                             |                             |                             |
| 219      | Cam Quarry                              |            |                          |                                  | 2                 | Jul-08              | Mar-10              |                     | 1                         | May-10                      |                             |                             |                             |                             |
| 220      | School Pit                              |            |                          |                                  | 1                 | Jan-10              |                     |                     | 1                         | Apr-10                      |                             |                             |                             |                             |

| ALCS No. | Quarry Name                    | Withdrawn | No of suspension notices | Suspension due to non compliance | No of IEMA audits | IEMA Audit 1 (Date) | IEMA Audit 2 (Date) | IEMA Audit 3 (Date) | No of Improvement Notices | Improvement Notice 1 (Date) | Improvement Notice 2 (Date) | Improvement Notice 3 (Date) | Improvement Notice 4 (Date) | Improvement Notice 5 (Date) |
|----------|--------------------------------|-----------|--------------------------|----------------------------------|-------------------|---------------------|---------------------|---------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 221      | Tyrone Sand & Gravel Ltd       |           |                          |                                  | 1                 | Mar-09              |                     |                     | 2                         | Jul-09                      | Nov-09                      |                             |                             |                             |
| 222      | Cemex (NI) Ltd                 |           |                          |                                  | 1                 | Aug-10              |                     |                     | 1                         | Jan-09                      |                             |                             |                             |                             |
| 223      | Donnelly Quarries Ltd          | refused   |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 224      | Omagh Minerals Ltd             | refused   |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 225      | Mallaghan Convenience D.I.Y    |           |                          |                                  | 1                 | May-10              |                     |                     | 1                         | Jun-10                      |                             |                             |                             |                             |
| 226      | Tullyvar Waste Company         | refused   |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 227      | Newell Sand & Gravel Ltd       |           |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 228      | Core Aggregates                |           |                          |                                  | 1                 | Oct-10              |                     |                     |                           |                             |                             |                             |                             |                             |
| 229      | Dunbeg Quarry Gravel Pit       |           |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 230      | Riddles Bros Ltd               | refused   |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 231      | Vow Sand & Gravel              |           |                          |                                  | 1                 | Jun-10              |                     |                     | 1                         | Nov-10                      |                             |                             |                             |                             |
| 232      | Bagnall Ltd                    | refused   |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 233      | T.J Gillespie                  |           |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 234      | GRJ Enterprises Ltd            | refused   |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 235      | Gortree Quarry                 | refused   |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 236      | Shanlieve Stone Ltd            | refused   |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| 237      | Derryogue Sand & Gravel Co Ltd | refused   |                          |                                  |                   |                     |                     |                     |                           |                             |                             |                             |                             |                             |
| Totals   |                                |           | 13                       |                                  | 460               |                     |                     |                     | 545                       |                             |                             |                             |                             |                             |

| ALCS No. | Quarry Name                    | No of DOE visits | DOE verification Visit 1 | DOE verification Visit 2 | DOE verification Visit 3 | DOE verification Visit 4 | DOE verification Visit 5 | DOE verification Visit 6 | DOE verification Visit 7 |
|----------|--------------------------------|------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1        | Navan Quarries                 |                  |                          |                          |                          |                          |                          |                          |                          |
| 2        | Tynan Quarry                   | 5                | 09/03/2007               | 29/01/2009               | 03/04/2009               | 11/11/2009               | 15/01/2010               |                          |                          |
| 3        | D Acheson (Navan Quarries) Ltd | 4                | 08/08/2007               | 29/01/2008               | 29/01/2009               | 03/09/2010               |                          |                          |                          |
| 4        | Achson & Glover Ltd            | 1                | 01/08/2007               |                          |                          |                          |                          |                          |                          |
| 5        | Acheson & Glover               | 1                | 23/07/2007               |                          |                          |                          |                          |                          |                          |
| 6        | Acheson & Glover ltd           | 1                | 10/10/2007               |                          |                          |                          |                          |                          |                          |
| 7        | Acheson & Glover ltd           | 1                | 22/08/2007               |                          |                          |                          |                          |                          |                          |
| 8        | Acheson & Glover ltd           | 1                | 23/07/2007               |                          |                          |                          |                          |                          |                          |
| 9        | Acheson & Glover ltd           | 1                | 18/05/2007               |                          |                          |                          |                          |                          |                          |
| 10       | Annett Sand & Gravel Ltd       | 1                | 04/05/2007               |                          |                          |                          |                          |                          |                          |
| 11       | Armagh City Quarries           | 1                | 20/08/2007               |                          |                          |                          |                          |                          |                          |
| 12       | Crocknamolt Quarry             | 2                | 02/08/2007               | 16/03/2009               |                          |                          |                          |                          |                          |
| 13       | Aughrim Quarries Ltd           | 1                | 26/02/2009               |                          |                          |                          |                          |                          |                          |
| 14       | Drogan Quarry                  | 1                | 23/11/2007               |                          |                          |                          |                          |                          |                          |
| 15       | Aughafad Quarry                | 1                | 31/10/2007               |                          |                          |                          |                          |                          |                          |
| 16       | G E Ballantine                 | 2                | 08/02/2007               | 26/11/2008               |                          |                          |                          |                          |                          |
| 17       | Barrack Hill Quarries ltd      | 2                | 31/07/2007               | 28/06/2010               |                          |                          |                          |                          |                          |
| 18       | John Bell & Son                | 1                | 25/06/2007               |                          |                          |                          |                          |                          |                          |
| 19       | Stanley Bell & Sons Ltd        | 2                | 12/02/2008               | 23/10/2009               |                          |                          |                          |                          |                          |
| 20       | Bonds Glen Quarry              | 3                | 01/10/2007               | 05/12/2008               | 12/06/2009               |                          |                          |                          |                          |
| 21       | Tully Quarry                   | 1                | 11/06/2007               |                          |                          |                          |                          |                          |                          |
| 22       | Mallusk Quarry                 | 2                | 24/08/2007               | 02/06/2010               |                          |                          |                          |                          |                          |
| 23       | Craigall Quarry                | 2                | 24/05/2007               | 08/09/2010               |                          |                          |                          |                          |                          |
| 24       | Campbell Contracts             | 3                | 21/02/2007               | 18/03/2009               | 02/07/2010               |                          |                          |                          |                          |
| 25       | Campsie Sand & gravel Ltd      | 1                | 08/10/2007               |                          |                          |                          |                          |                          |                          |
| 26       | W & J Chambers ltd             | 1                | 22/02/2007               |                          |                          |                          |                          |                          |                          |
| 27       | Clady Quarries                 | 2                | 06/12/2007               | 08/02/2010               |                          |                          |                          |                          |                          |
| 28       | P Clarke & Sons Ltd            | 2                | 15/10/2007               | 10/05/2010               |                          |                          |                          |                          |                          |
| 29       | Collen Bros Quarries Ltd       | 1                | 17/01/2008               |                          |                          |                          |                          |                          |                          |
| 30       | Conway Brothers                | 1                | 14/11/2007               |                          |                          |                          |                          |                          |                          |
| 31       | Blackhill Aggregates Ltd       | 1                | 26/03/2010               |                          |                          |                          |                          |                          |                          |
| 32       | Fallagher No 2 Quarry          | 3                | 14/02/2008               | 27/02/2009               | 05/11/2009               |                          |                          |                          |                          |
| 33       | Cootes (Concrete Products) Ltd | 3                | 21/01/2008               | 09/04/2009               | 5/11/2009                |                          |                          |                          |                          |
| 34       | George Crawford & Son          | 1                | 26/09/2007               |                          |                          |                          |                          |                          |                          |
| 35       | Braghdyart Quarry              | 1                | 02/11/2007               |                          |                          |                          |                          |                          |                          |
| 36       | Outlack Rd                     | 3                | 08/06/2007               | 09/10/2008               | 07/10/2010               |                          |                          |                          |                          |
| 37       | Deane Public Works Ltd         | 3                | 12/06/2006               | 23/02/2009               | 15/09/2010               |                          |                          |                          |                          |
| 38       | Derryogue Sand Co ltd          | 2                | 07/08/2007               | 25/06/2010               |                          |                          |                          |                          |                          |
| 39       | Devine's Sand & Gravel         | 2                | 29/08/2007               | 01/05/2009               |                          |                          |                          |                          |                          |
| 40       | R J Donaghy & sons             | 2                | 02/05/2007               | 21/11/2008               |                          |                          |                          |                          |                          |
| 41       | Gregory Donnelly Sand & Gravel | 2                | 06/03/2008               | 11/08/2010               |                          |                          |                          |                          |                          |
| 42       | Thomas Doran                   |                  |                          |                          |                          |                          |                          |                          |                          |
| 43       | Moyard Properties Ltd          | 2                | 31/08/2007               | 20/11/2009               |                          |                          |                          |                          |                          |
| 44       | Budore Quarries                | 1                | 28/08/2007               |                          |                          |                          |                          |                          |                          |

| ALCS No. | Quarry Name                            | No of DOE visits | DOE verification Visit 1 | DOE verification Visit 2 | DOE verification Visit 3 | DOE verification Visit 4 | DOE verification Visit 5 | DOE verification Visit 6 | DOE verification Visit 7 |
|----------|----------------------------------------|------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 45       | Edenrillick Quarries Ltd               |                  |                          |                          |                          |                          |                          |                          |                          |
| 46       | Elliott Bros                           | 1                | 15/06/2007               |                          |                          |                          |                          |                          |                          |
| 47       | Ardmore Sand                           |                  |                          |                          |                          |                          |                          |                          |                          |
| 48       | Washing Plant                          |                  |                          |                          |                          |                          |                          |                          |                          |
| 49       | Norman Emerson & sons Ltd              |                  |                          |                          |                          |                          |                          |                          |                          |
| 50       | Lisbane Quarry                         | 3                | 17/10/2007               | 11/11/2009               | 03/09/2010               |                          |                          |                          |                          |
| 51       | Norman Emerson & sons Ltd              |                  |                          |                          |                          |                          |                          |                          |                          |
| 52       | Ready Mixed Concrete Plant             |                  |                          |                          |                          |                          |                          |                          |                          |
| 53       | Magherglass Sand Pit                   | 3                | 23/02/2007               | 25/08/2009               | 03/09/2010               |                          |                          |                          |                          |
| 54       | Leod Quarries                          | 1                | 03/07/2007               |                          |                          |                          |                          |                          |                          |
| 55       | GRU Enterprises Ltd                    |                  |                          |                          |                          |                          |                          |                          |                          |
| 56       | Cornamucklagh Quarry                   | 2                | 21/08/2007               | 17/01/2008               |                          |                          |                          |                          |                          |
| 57       | Gibson Bros Ltd                        | 2                | 13/01/2009               | 04/08/2009               |                          |                          |                          |                          |                          |
| 58       | J Gourley & Son                        | 1                | 25/06/2007               |                          |                          |                          |                          |                          |                          |
| 59       | Deer Park Quarry                       | 2                | 26/03/2007               | 13/08/2009               |                          |                          |                          |                          |                          |
| 60       | Northstone (NI) Ltd                    | 1                | 23/02/2009               |                          |                          |                          |                          |                          |                          |
| 61       | Seamus Grogan Jnr                      |                  |                          |                          |                          |                          |                          |                          |                          |
| 62       | Grogan Quarries Ltd                    | 3                | 24/07/2007               | 12/04/2010               | 12/04/2010               |                          |                          |                          |                          |
| 63       | Hackett Brothers                       | 2                | 23/08/2007               | 06/08/2009               |                          |                          |                          |                          |                          |
| 64       | Cashel Quarry                          | 1                | 22/02/2008               |                          |                          |                          |                          |                          |                          |
| 65       | Patrick J Heaney                       | 4                | 28/02/2007               | 20/05/2009               | 04/12/2009               | 12/05/2010               |                          |                          |                          |
| 66       | Heron Bros Ltd                         | 2                | 27/02/2007               | 05/06/2009               |                          |                          |                          |                          |                          |
| 67       | R Hogg & Sons Ltd                      | 1                | 18/01/2008               |                          |                          |                          |                          |                          |                          |
| 68       | W D Irwin & Sons Ltd                   | 1                | 12/10/2007               |                          |                          |                          |                          |                          |                          |
| 69       | JDC Joinery & Building Works           | 1                | 29/01/2008               |                          |                          |                          |                          |                          |                          |
| 70       | M W Johnston & Son                     |                  |                          |                          |                          |                          |                          |                          |                          |
| 71       | Jordans Quarry                         | 3                | 08/01/2008               | 27/01/2009               | 19/05/2010               |                          |                          |                          |                          |
| 72       | Thomas Kane & sons                     | 1                | 28/09/2007               |                          |                          |                          |                          |                          |                          |
| 73       | Corvanaghan Quarry                     | 1                | 26/02/2008               |                          |                          |                          |                          |                          |                          |
| 74       | Dunloy Quarry                          | 2                | 16/11/2007               | 20/01/2010               |                          |                          |                          |                          |                          |
| 75       | Rocktown Quarry                        | 2                | 11/03/2008               | 20/01/2010               |                          |                          |                          |                          |                          |
| 76       | Whitemountain Quarries Ltd             | 1                | 17/09/2007               |                          |                          |                          |                          |                          |                          |
| 77       | Kilwaughter Chemical Co Ltd            | 1                | 11/12/2007               |                          |                          |                          |                          |                          |                          |
| 78       | Leestone Sand & Gravel Ltd             | 2                | 07/08/2007               | 26/02/2009               |                          |                          |                          |                          |                          |
| 79       | L D Aggregates Ltd                     | 2                | 04/06/2008               | 15/09/2010               |                          |                          |                          |                          |                          |
| 80       | Charles Loughran                       |                  |                          |                          |                          |                          |                          |                          |                          |
| 81       | Loughran Quarries                      | 2                | 28/02/2008               | Jun-10                   |                          |                          |                          |                          |                          |
| 82       | Loughside Quarries                     | 1                | 14/08/2007               |                          |                          |                          |                          |                          |                          |
| 83       | Mallaghan Convenience DIY Products Ltd |                  |                          |                          |                          |                          |                          |                          |                          |
| 84       | Martins Quarry                         | 1                | 30/07/2007               |                          |                          |                          |                          |                          |                          |
| 85       | Croaghan Depot                         | 1                | 25/09/2007               |                          |                          |                          |                          |                          |                          |
| 86       | Northstone (NI) Ltd                    | 1                | 29/10/2007               |                          |                          |                          |                          |                          |                          |
| 87       | Northstone (NI) Ltd                    | 1                | 02/03/2007               |                          |                          |                          |                          |                          |                          |
| 88       | Carmean Limestone                      | 2                | 13/05/2009               | 08/09/2010               |                          |                          |                          |                          |                          |







| ALCS No. | Quarry Name                    | No of DOE visits | DOE verification Visit 1 | DOE verification Visit 2 | DOE verification Visit 3 | DOE verification Visit 4 | DOE verification Visit 5 | DOE verification Visit 6 | DOE verification Visit 7 |
|----------|--------------------------------|------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 221      | Tyrone Sand & Gravel Ltd       | 1                | 06/11/2009               |                          |                          |                          |                          |                          |                          |
| 222      | Cemex (NI) Ltd                 |                  |                          |                          |                          |                          |                          |                          |                          |
| 223      | Donnelly Quarries Ltd          |                  |                          |                          |                          |                          |                          |                          |                          |
| 224      | Omagh Minerals Ltd             |                  |                          |                          |                          |                          |                          |                          |                          |
| 225      | Mallaghan Convenience D.I.Y    | 1                | 14/11/2008               |                          |                          |                          |                          |                          |                          |
| 226      | Tullyvar Waste Company         |                  |                          |                          |                          |                          |                          |                          |                          |
| 227      | Newell Sand & Gravel Ltd       | 1                | 18/06/2009               |                          |                          |                          |                          |                          |                          |
| 228      | Core Aggregates                |                  |                          |                          |                          |                          |                          |                          |                          |
| 229      | Dunbeg Quarry Gravel Pit       |                  |                          |                          |                          |                          |                          |                          |                          |
| 230      | Riddles Bros Ltd               |                  |                          |                          |                          |                          |                          |                          |                          |
| 231      | Vow Sand & Gravel              | 1                | 09/10/2009               |                          |                          |                          |                          |                          |                          |
| 232      | Bagnall Ltd                    |                  |                          |                          |                          |                          |                          |                          |                          |
| 233      | T J Gillespie                  |                  |                          |                          |                          |                          |                          |                          |                          |
| 234      | GRJ Enterprises Ltd            |                  |                          |                          |                          |                          |                          |                          |                          |
| 235      | Gortree Quarry                 |                  |                          |                          |                          |                          |                          |                          |                          |
| 236      | Shanlieve Stone Ltd            |                  |                          |                          |                          |                          |                          |                          |                          |
| 237      | Derryogue Sand & Gravel Co Ltd |                  |                          |                          |                          |                          |                          |                          |                          |
| Totals   |                                | 285              |                          |                          |                          |                          |                          |                          |                          |

**From the Office of the  
Minister of Agriculture,  
Environment and Rural Affairs**



Rachel Woods MLA  
Northern Ireland Assembly  
Parliament Buildings  
Ballymiscaw  
Stormont  
BT4 3XX

Room 438  
Dundonald House  
Upper Newtownards Road  
Ballymiscaw  
Belfast  
BT4 3SB  
Telephone: 028 9052 4140  
Email: [private.office@daera-ni.gov.uk](mailto:private.office@daera-ni.gov.uk)

15<sup>th</sup> July 2021  
AQW 21171/17-22

**To ask the Minister of Agriculture, Environment and Rural Affairs pursuant to AQW 19887/17-22, to detail the precise role and responsibilities his Department's Environmental Policy Division had in the administration, delivery and evaluation of the Aggregates Levy Credit Scheme.**

The then Department of the Environment (DoE) administered the Aggregates Levy Credit Scheme (ALCS) on behalf of Her Majesty's Revenue and Customs (HMRC) and was responsible for entering into aggregates levy credit agreements with aggregate operators, monitoring such agreements and issuing, where necessary, withdrawing aggregates levy credit certificates. All payments of the levy were made direct to HMRC, and the DOE did not at any stage have a role in the calculation of rebates or the collection of levy payments. DoE has had no further role in the administration, delivery or evaluation in the ALCS following the suspension of the scheme on 1 December 2010. As such I can confirm that the Department of Agriculture, Environment and Rural Affairs have had no involvement in the administration, delivery and evaluation of the scheme.



**EDWIN POOTS MLA  
Minister of Agriculture, Environment and Rural Affairs**



If you are deaf or have a hearing difficulty you can contact the Department via the Next Generation Text Relay Service by dialling 18001 + telephone number.



*Sustainability at the heart of a living,  
working, active landscape valued  
by everyone.*

Rachel Woods MLA  
Northern Ireland Assembly  
Parliament Buildings  
Ballymiscaw  
Stormont  
BT4 3XX

Room 438  
Dundonald House  
Upper Newtownards Road  
Ballymiscaw  
Belfast  
BT4 3SB  
Telephone: 028 9052 4140  
Email: [private.office@daera-ni.gov.uk](mailto:private.office@daera-ni.gov.uk)

15<sup>th</sup> July 2021  
**AQW 21172/17-22**

**To ask the Minister of Agriculture, Environment and Rural Affairs, pursuant to AQW 19887/17-22, (i) to detail the environmental improvements agreed and undertaken at Craigall quarry, Cullyrammer Road, Kilrea, Co. Londonderry under the Aggregates Levy Credit Scheme; and (ii) for his assessment of whether any of those environmental gains at the site have been undermined by the ongoing destruction of priority habitat and species under the guise of a 1964 planning permission.**

- (i) Three Environment audits were carried out by White Young Green Environmental - April 2007, May 2008 and May 2010. Audit recommendations were made following the third audit in May 2010, however, the scheme was suspended on 1 December 2010 following a European General Court ruling on 9 September 2010.
- (ii) I am unable to comment as on 9 September 2010, a European General Court ruling annulled the European Commission's approval following a legal challenge. Consequently, the decision was taken by HM Treasury to suspend the ALCS with effect from 1 December 2010.



**EDWIN POOTS MLA**  
**Minister of Agriculture, Environment and Rural Affairs**



[REDACTED]

---

From: [REDACTED] (NI, Excise & Int Trade, Excise Assurance)  
[REDACTED]@hmce.gsi.gov.uk  
Sent: 26 July 2004 10:25  
To: [REDACTED] (EPD)  
Subject: RE: Aggregates Levy

[REDACTED]

Yes, the number was issued to Farrans Ltd who also own/control Scotts and Maxwells in the same way that Tarmac or Readymix operate, using a composite return to account for the levy. Unfortunately, I have minimal contact with any of the Farrans group as this is under our Large Business Group control and they rarely refer to me!

[REDACTED]

-----Original Message-----

From: [REDACTED] (EPD)  
[mailto:[REDACTED]@doeni.gsi.gov.uk]  
Sent: 26 July 2004 10:17  
To: [REDACTED] (E-mail)  
Subject: Aggregates Levy

[REDACTED]

Re Aggregates Levy Number 10581 0000

Is it in order that Scotts and R.J.Maxwell use this number. I note that on your list the number refers to Farrans Ltd.

Thank you for your help.

[REDACTED]

Aggregates Levy and  
Environmental Taxes Policy  
Phone 028 90 544526  
Fax 028 90 544520

**FILE REVIEW - FILE RETENTION / DESTRUCTION**

ALCA 137

|             |                                       |
|-------------|---------------------------------------|
| To          | [REDACTED]                            |
| Team/Branch | Environmental Policy Division         |
| Location    | 8 <sup>th</sup> Floor, Goodwood House |
| File Number | EPD01-142/2006                        |
| File Name   | Northstone (NI) LTD (Sandybay site)   |

**As file storage is expensive, please consider your decision carefully, taking into account into departmental needs.**

*Please tick as appropriate*

- DESTROY
- RETAIN FOR A FURTHER 5 YEAR (S)

If you advise retention, please give your reason (s) and state why you think the period is appropriate.

The Aggregates Levy Credit Scheme (ALCS) was suspended on 1 December 2010 and is currently under review by the European Commission. The Commission has also indicated that consideration may be given to the recovery of the tax relief already paid to quarry owners under the scheme. Therefore, in view of the fact that this file contains the original application form and other key documentation relating to the ALCS, this file needs to be retained for a further period of at least 5 years.

Name of Reviewing Officer: [REDACTED]

BLOCK LETTERS

Signature [REDACTED] Date of Review 29/3/2013

**PLEASE RETURN TO BUSINESS SUPPORT**

File updated 21/1/2011

**ALCA 137** Northstone (NI) Limited  
**Site address** 19 Shore Road Upper Ballinderry

The third environmental audit for this site was received March 2010 and the scores are as follows:

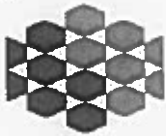
|           |    |
|-----------|----|
| Score 1   | 0  |
| Score 2   | 0  |
| Score 3   | 30 |
| Score 4   | 30 |
| Score 5   | 9  |
| Score n/a | 25 |

As there were no negative scores an improvement notice was not issued instead a letter dated 10/8/2010 was sent, copy on file.

The last improvement notice was issued on 16/5/2008 and there are no outstanding issues.

████████████████████

ALCS 137



Department of the  
**Environment**

www.doeni.gov.uk

Climate and Waste Division  
Aggregates Levy Credit Scheme

3<sup>rd</sup> Floor  
Calvert House  
23 Castle Place  
Belfast  
BT1 1FY

[Redacted]  
Northstone (NI) Limited  
99 Kingsway  
Dunmurry  
BT17 9NU

Telephone: 02890 254738  
Fax: 02890 254732  
Email: [Redacted]@doeni.gov.uk

Our reference: ALCA 137  
Your reference:  
Date 10th August 2010

Dear Operator

**Site address: Sandybay site**

We recently received your Third audit for the above-named site. We are delighted at the level of progress which has been made across the aggregates sector since the introduction of the Credit Scheme in 2004.

This progress is clearly reflected in your latest audit which shows this site has no non-compliant issues (i.e. there are no scores 1 or 2) and in fact there are 9 areas where best practice is in place or no further reasonable improvement can be made (i.e. score 5).

In light of this we **do not intend to issue the standard Improvement Notice** setting out specific actions required, as was the case following previous audits. Instead we wish to see you continue to maintain the current standards on site and, where you can, improve those areas where there is still some room for improvement.

At this stage we are waiting for the final decision whether or not the Credit Scheme will continue beyond March 2011. If European Commission approval is granted new conditions may be attached to the way the Scheme operates but we will provide details if and when this happens.

We will notify you closer to the time when a new audit is required. In the meantime, we may carry out a site visit to ensure the standards currently in place are maintained.

If you carry out further improvements we would encourage you to let us know so we can reflect the change in the audit scores.

Yours Sincerely

[Redacted signature]

[REDACTED]

---

**From:** [REDACTED]  
**Sent:** 12 May 2010 09:15  
**To:** [REDACTED]  
**Subject:** RE: Aggregates Levy Credit Agreement - ALCA 137/138/139

Hi [REDACTED]

Re the discharge consents, I've put copies in the post to you today.

Re your request for copy of planning permissions, [REDACTED] states in his ALCS audit reports for all three sites (statement is on the first page of each report):

*"The operator does not hold a planning permission for the operations. The site operates under 'Established User Rights Prior to Introduction of 1972 Planning Order' as specified in the application form."*

I trust that the above information is suitable for your purposes.

Regards

[REDACTED]

[REDACTED]

Systems & Environmental Manager

Matteest

99 Kingsway, Dunmurry, Belfast, BT17 9NU

Tel No: [REDACTED]

Fax No: [REDACTED]

[REDACTED]

E-mail: [REDACTED]

---

**From:** [REDACTED] [mailto:[REDACTED]@doeni.gov.uk]  
**Sent:** 11 March 2010 14:57  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Aggregates Levy Credit Agreement - ALCA 137/138/139

Good Afternoon [REDACTED]

I have received the audits for Sandy Bay, Ballyginniff and Hutchinson's from Quarryplan.

Can you please arrange to have copies of the Planning permission and Water Discharge papers for each site available for [REDACTED] to bring back to me from the visit on 15th to Greggs Pit.

Thank you.

Regards

[REDACTED]



Department of the  
**Environment**

www.doeni.gov.uk

**Planning and Environmental Policy Group**  
3<sup>rd</sup> Floor Calvert House  
23 Castle Place  
Belfast  
BT1 1FY

Mr [REDACTED]

Telephone: 02890 254738  
Facsimile: 02890 254732  
Email: [REDACTED]@doeni.gov.uk

Our Ref ALCA 137 /138 /139  
Your Ref  
Date 12<sup>th</sup> January 2009

Dear Operator;

**IMPORTANT REMINDER**

**AGGREGATES LEVY CREDIT SCHEME THIRD ENVIRONMENTAL AUDIT**

Under the terms of the Aggregates Levy Credit Agreement, the third Environmental audit for your site at :

Sandy Bay  
Ballyginniff  
Hutchinsons

is due to be submitted to the Department on **2nd March 2010**. We would appreciate audits coming in prior to the due date.

You are responsible for ensuring that the Environmental Auditor you appoint is suitably accredited (see paragraph 3.3 of the Code of Practice).

Can you please ask your auditor to include the following additional information with the audit:

- Location map of the site, postcode and directions.
- A summary of the site including:
  - a: Description of operations
  - b: The underlying Geology of the area (if appropriate)
  - c: Products Produced
  - d: Staff numbers
  - e: Equipment and vehicles on site
  - f: Approximate annual tonnages
  - g: General observations of the surrounding area e.g. Special Area of Conservation.

Improvement Notice Revised May 2008 – ALCA reference number – 137  
 Northstone - Sandy Bay - Northstone's Report : Current Situation 1<sup>st</sup> September 2008

Outstanding Issues to be completed by August 2008

| Impact No              | Risk                                   | Improvement Measure(s) Required                                                                                                             | Status                                                               | Comments                                                                                                                   |
|------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Oil / Chemical<br>OCS2 | Bulk oil and chemical delivery to tank | Ensure safe delivery and emergency spill procedures are displayed near delivery point<br>Ensure deliveries are supervised.                  | Completed<br>Procedures displayed                                    | All areas used for oil changes and topping up oil levels are surfaced -<br>Garage floor is fully concreted                 |
| OCS5                   | Manual handling of Oils and Chemicals  | Ensure filling takes place on hard standing.<br>Staff should have access to the PPG 11.                                                     | Completed PPG 11 in site file                                        |                                                                                                                            |
| Surface Water<br>SW6   | Site Drainage / Water Management Plan  | Draft Drainage plans for the site indicating site run-off and discharge points lagoon locations, location of septic tanks and soak away etc | Completed                                                            | Plan Stored in Environmental Site file                                                                                     |
| Biodiversity<br>BD3    | Protected Species                      | Maintain staff training records on protected species.                                                                                       | 1 <sup>st</sup> training session completed in August -- records held | An independent Biodiversity Review has taken place, a response plan drawn up & A Biodiversity action plan drawn up & begun |
| BD 4                   | Use of Native Species                  | Implement the landscape management plan including the planting of native species.                                                           | agreed<br>Landscape plan not needed                                  |                                                                                                                            |

Issue Date 02-03-2006  
 Rev1 Issue Date 25-07-2007  
 Rev2 Issue Date 16-05-2008

[REDACTED]

**From:** [REDACTED]  
**Sent:** 01 September 2008 17:37  
**To:** [REDACTED]  
**Subject:** ALCS ACTION POINTS - LOUGH NEAGH SITES

**Attachments:** Northstone Hutchinsons Plant Status Sept 08.doc; Northstone Sandy Bay Status Sept 08.doc; Status Sept 08 Northstone Ballyginniff Plant.doc



Northstone  
Hutchinsons Plant S..

Northstone Sandy  
Bay Status Se...

Status Sept 08  
Northstone Ball...

Hi [REDACTED]

In response to your recent letter - All Action Points complete

Will the attached report ( based on the notices) suffice or do you wish a letter?

Best Regards

[REDACTED]

**SECOND AUDIT IMPROVEMENT NOTICE**

ALCA Number – 137  
Sandy Bay Sand Processing Site

**Acknowledgement Slip - to be returned within 2 weeks of receipt of Improvement Notices to the following address: -**

**[Redacted]  
Planning & Environmental Policy Group  
20-24 Donegall St  
Belfast  
BT1 2GP**

- I agree that I have received and understand the improvement notices attached. Assuming the attached fax details
- I do not agree to implement the improvements set out on the Improvement Notices because.....

Signed [Redacted]

**Please confirm:**

**Contact name: ..... [Redacted] .....(Please print)**

**Contact Telephone No: ..... [Redacted]**

**Address: 7, Creagh Road, Toomebridge, Co. Antrim, BT 41 3SD**

**Date : June 2008**

[REDACTED]

**From:** [REDACTED]  
**Sent:** 06 June 2008 14:57  
**To:** [REDACTED]  
**Subject:** FW: Revised Improvement Notices

**Attachments:** Northstone Sandy Bay Rev 2a - Improvement Notice.doc; Northstone Sandy Bay Letter Rev2a.doc; Northstone Ballyginniff Site Letter Rev1a.doc; Northstone Ballyginniff Plant - Improvement Notice Rev1a.doc; Northstone Hutchinsons Plant - Improvement Notice Rev1a.doc; Northstone Hutchinsons Letter Rev1a.doc



Northstone Sandy Bay Rev 2a - ...



Northstone Sandy Bay Letter Re...



Northstone Ballyginniff Site L...



Northstone Ballyginniff Plant ...



Northstone Hutchinsons Plant -..



Northstone Hutchinsons Letter ..

-----Original Message-----

**From:** [REDACTED] (Belfast) [mailto:[REDACTED].com]  
**Sent:** 21 May 2008 16:47  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Revised Improvement Notices

[REDACTED]

Here are copies of the revised improvement notices for Sandy Bay - 137, Ballyginniff Point - 138 and Hutchinson's Plant - 139.

One issue we noticed when the audit scores were being added to the overall statistics database was the inconsistent scoring of Landscaping and Restoration sections, with some sections marked as 'Not applicable' and other being scored and then error between the table of scores and the summary sheet.

I would assume from the audits reports that I have read that the site are largely similar in scale, processes and size as the site on Sandy Bay? And on that understanding we feel can amend the scores to reflect the following points.

a) There has been Biodiversity surveys which seems as though it has covered Landscaping issues (LV 1 for Sandy Bay Hutchinson's and Ballyginniff - 'and a landscape management plan produced in June 1998 and but has been superseded by a Biodiversity Review')

b) Section R 2 refers to a Landscape plan.

So overall the Restoration should not be an issue on these sites as they are processing sites but Landscaping would still be an issue because of the planting at the boundaries etc and from what I have read in the reports has been covered and reviewed at the Biodiversity Management Plans. Is that correct?

If so can we mark the restoration issues as 'not applicable' and then score the landscaping issues as a 3 as a plan has been drafted as part of the Biodiversity review?

Hope this makes sense.

If you want, give me a call to discuss.

Regards

[REDACTED]  
Principal Environmental Auditor (IEMA)

Tel: 02890 278869  
[REDACTED]

Web: <http://www.uk.sgs.com> <<http://www.uk.sgs.com/>> Northern Ireland

SGS United Kingdom Limited  
Reg Office: Rossmore Business Park, Ellesmere Port, Cheshire CH65 3EN Registered in  
England No: 1193985

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[REDACTED]  
Northstone (NI) Ltd – Concrete Division  
7 Creagh Road  
Toomebridge  
Co Antrim  
BT41 3SD

ALCA reference Number - 137

**Site – Sandy Bay**  
16th May 2008

**SECOND AUDIT – Aggregates Levy Credit Agreement Improvement Notice**

Dear Operator

As part of the agreement you signed when you joined the Aggregates Levy Credit Scheme (ALCS) you undertook to have periodic audits carried out at your operating site. The second audit was performed by [REDACTED] on the 28th-30th January 2008 for the sand plant at the Sandy Bay Sand Processing Plant.

The revised improvement notice attached now reflects the current circumstances at the Sandy Bay Site, taking into account the situation at the time of our visit and the content of this latest audit.

**Please note:**

1. **Any item outstanding from the previous audit or the verification visit is now critical and must be completed within three months of this notice.**
2. **Any improvements identified from the previous audit which have been completed or are not applicable are excluded from this latest Improvement Notice.**
3. **The intention of the Scheme is to improve environmental performance across all areas at all sites and the attached Notice now**

reflects this aim by identifying actions to move towards best practice in the particular areas highlighted. Due to the location and sensitivity of this site, key areas such as Landscaping and Biodiversity should be continuously evaluated and ongoing improvements implemented.

The revised second Improvement Notice attached should be reviewed and the confirmation form returned to the address on the acknowledgement slip within 2 weeks of receipt. Failure to return the receipt could lead to agreement suspension and the possible withdrawal of your certificate.

If you do not agree with the status of any of the improvements you are being asked to carry out please let me know, explaining exactly the issues.

If you have any questions don't hesitate to contact me.

Regards

[REDACTED]

Contact Details:

[REDACTED]  
The Carnegie Building  
Library Hill  
121 Donegall Road  
Belfast BT12 5JL  
Email: [REDACTED]@sgs.com  
Tel: 02890 278869

[REDACTED]  
Environmental Policy Group  
20-24 Donegall Street  
Belfast  
BT1 2GP  
Email: [REDACTED]@doeni.gov.uk  
Tel: 02890 544593



# NORTHSTONE

The Right Choice

Concrete Division  
99 Kingsway  
Dunmurry  
Belfast  
BT17 9NU

Main Telephone: [REDACTED]

Date  
12-Jun-08

Name of the person who is to receive the fax  
[REDACTED]

Name of recipient's company or firm  
Environment & Heritage Service (Policy Group)

Recipient's fax number  
028 90 544520

Name of Sender  
[REDACTED]

Department of Sender  
Technical/Environmental

Direct dial telephone number of sender  
[REDACTED]

Fax number of sender  
[REDACTED]

E-mail address of sender  
[REDACTED]



## FACSIMILE TRANSMISSION

Subject  
ALCS Acknowledgement Slip

No of pages  
4 (including cover sheet)

Message

[REDACTED]

Please find attached signed ALCS acknowledgement slips as requested.

As explained by phone, following receipt of [REDACTED] revision of the improvement notices I phoned [REDACTED] and we discussed the required improvement notices for our Sandybay, Ballyginniff, & Hutchinsons lough sand sites and we came to an agreement following these discussions that rather than [REDACTED] re-issue a further review of his Improvement notice - That if we sign the acknowledgement slips & include the proviso's we discussed this would suffice.

The signed acknowledgement slips agree to carry out the improvement notices with the following understanding:

1. No Landscape management Plan is required for any lough site as there is no aggregate extraction on these sites
2. Biodiversity training for lough site operatives would be relatively simple covering the main site issues & include such things as retaining Nesting Areas for Sandmartins, explaining the reduction of tree sparrows & our approach to helping nesting of these birds. We would also display The local lough Neagh Wetlands Committee Biodiversity Action Plan - In my discussion with [REDACTED] I pointed out that most of our operatives would not retain more detailed information
3. A simple Biodiversity Plan will be drawn up & implemented. This will be based on our recent Independent Biodiversity review & also we intend to seek advice from [REDACTED] of the above committee to see what we can do to help the Rare Grond beetle found on the sandy shores of some of our sites

Best Regards

[REDACTED]

Improvement Notice Revised May 2008 – ALCA reference number – 137  
 Northstone - Sandy Bay

Outstanding Issues to be completed by August 2008

| Impact No              | Risk                                   | Improvement Measure(s) Required                                                                                                                  | Target date for closure | Status         | Comments                                                                                                                    |
|------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------|
| Oil / Chemical<br>OCS2 | Bulk oil and chemical delivery to tank | Ensure safe delivery and emergency spill procedures are displayed near delivery point (available from EHS).<br>Ensure deliveries are supervised. | Aug 2008                | Not Complete ✓ | Ensure areas used for oil changes and topping up oil levels are surfaced where practicable. (Garage is only half surfaced?) |
| OCS5                   | Manual handling of Oils and Chemicals  | Ensure filling takes place on hard standing. Staff should have access to the PPG 11.                                                             | Aug 2008                | Not Complete ✓ |                                                                                                                             |
| Surface Water<br>SW6   | Site Drainage / Water Management Plan  | Draft Drainage plans for the site indicating site run-off and discharge points lagoon locations, location of septic tanks and soak away etc      | Aug 2008                | Not Complete ✓ | A drainage plan has been drafted but needs to be completed and easily accessible.                                           |
| Biodiversity<br>BD3    | Protected Species                      | Maintain staff training records on protected species.                                                                                            | Aug 2008                | Not Complete ✓ | Tool box talks have not been completed to date.                                                                             |
| BD 4                   | Use of Native Species                  | Implement the landscape management plan including the planting of native species.                                                                | Aug 2008                | Not complete ✓ | A biodiversity management plan has been drafted but has not been implemented to date.                                       |

3rd  
 Andie  
 Score

4

4

3

4

3



Department of the  
**Environment**

www.doeni.gov.uk

*Copy*  
**Environmental Policy Group**

20-24 Donegall Street  
Belfast  
BT1 2GP

[REDACTED]  
Northstone (NI) Limited  
7 Creagh road  
Toomebridge  
Co. Antrim  
BT41 3SD

Telephone: 02890 544582  
Facsimile: 02890 544520  
Email: [REDACTED]@doeni.gov.uk

Our Ref ALCA 137  
Your Ref  
Date 17<sup>th</sup> October 2007

Dear Operator

**IMPORTANT REMINDER**

**AGGREGATES LEVY CREDIT SCHEME SECOND ENVIRONMENTAL AUDIT**

Under the terms of the Aggregates Levy Credit Agreement, the second Environmental audit for your site at **Sandybay** is due to be submitted to the Department on **2nd March 2008**. We would appreciate audits coming in prior to the due date.

You are responsible for ensuring that the Environmental Auditor you appoint is suitably accredited (see paragraph 3.3 of the Code of Practice).

Can you please ask your auditor to include the following additional information with the audit:

- Location map of the site, postcode and directions.
- A summary of the site including:
  - a: Description of operations
  - b: The underlying Geology of the area (if appropriate)
  - c: Products Produced
  - d: Staff numbers
  - e: Equipment and vehicles on site
  - f: Approximate annual tonnages
  - g: General observations of the surrounding area e.g. Special Area of Conservation.
- If there are any waterways close to the site
- A summary of the scores from the Primary audit and comparison to the new audit scores.
- If there are any Septic Tanks or Chemical toilet facilities on site.

- Specific information in relation to the Improvement Notice issued, e.g. the progress and consequently the improved score in the audit.
- Audits should be submitted in soft bound files.
- If your auditor has not previously submitted an Environmental audit for the Aggregates Levy Credit Scheme they should include a copy of their qualifications.

As there will be a number of audits due around the same time as yours I would suggest that you contact your Auditor as soon as possible to ensure you do not miss the audit date. Please remember that each registered site must have its own audit.

Failure to submit your audit by the required date will result in your Aggregates Levy Credit Certificate being suspended and the Commissioners of Revenue and Customs being notified that you are liable from the date of suspension, for the full rate of the Aggregates Levy.

I have enclosed a sheet detailing the contacts and addresses I hold for your registered site and would appreciate if you could check the information on it and if there are any changes or blanks could you please update and return to me.

A reply by 5<sup>th</sup> November would be appreciated.

Yours sincerely,

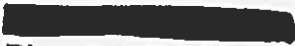


**Contact Sheet**

|                                                       | <b>DETAILS HELD</b>                                                           | <b>AMENDED DETAILS</b> |
|-------------------------------------------------------|-------------------------------------------------------------------------------|------------------------|
| <b>Operator / Company Name</b>                        | Northstone (NI) Limited                                                       |                        |
| <b>Site Address</b>                                   | Sandybay site<br>19 Shore Road<br>Upper Ballinderry<br>Co. Antrim<br>BT28 2LF |                        |
| <b>Contact on site</b>                                |                                                                               |                        |
| <b>Site telephone number</b>                          |                                                                               |                        |
| <b>Mailing address if different from site address</b> | 7 Creagh Road<br>Toomebridge<br>BT41 3SD                                      |                        |
| <b>Office contact</b>                                 | ██████████                                                                    |                        |
| <b>Office telephone number</b>                        | ██████████                                                                    |                        |
| <b>Mobile number</b>                                  |                                                                               |                        |
| <b>e-mail address</b>                                 | ████████████████████████████████████████                                      |                        |
| <b>Fax number</b>                                     | ██████████                                                                    |                        |

Aggregate Levy Credit Agreement Number - 137 Rev 1

Acknowledgement Slip - to be returned within 2 weeks of receipt of Improvement Notices to :-

  
Planning & Environmental Policy Group  
20-24 Donegall St  
Belfast  
BT1 2GP

I agree that I have received and understand the improvement notices attached.

I do not agree to implement the improvements set out on the Improvement Notices because.....

HEAD OFFICE ADDRESS :-

7, CLEGGH ROAD,  
TOONEBRIDGE,  
CO. WILTAM  
BT 41 3 SD.

Signed 

Operator Name, address (please print)

SITE ADDRESS :-  
NORTHSTONE (NI) LTD., CONCRETE DIVISION  
SANDYBAM SITE  
19, SHOLE ROAD,  
UPPER BALLINDERRY  
CO. WILTAM  
BT 28 2 LF

[REDACTED]  
Northstone (NI) Ltd – Concrete Division  
Sandybay Site,  
19 Shore Road  
Upper Ballinderry,  
Co. Antrim  
BT28 2LF

**Site – Sandy Bay**  
ALCA reference Number - 137  
25th July 2007

**Reference – Aggregates Levy Credit Agreement Improvement Notices**

Dear Operator

As part of the agreement you signed when you joined the Aggregates Levy Credit Scheme (ALCS) you undertook to have an audit carried out at your operating site. This Primary Audit was performed during September 2005 by [REDACTED] and then followed up by a site visit 4th April 2007 by [REDACTED] and [REDACTED].

Following the site visit and review, the revised improvement notice attached now reflects the current circumstances at the Sandy Bay site.

**It was noted on the verification site some of the urgent improvement notices actions have not been completed and these should be addressed immediately and completed by 28<sup>th</sup> September 2007.**

**The Improvement Notices attached should be reviewed and the confirmation form returned to the address shown on the acknowledgement slip below within 2 weeks of receipt. Failure to return the receipt could lead to agreement suspension and the possible withdrawal of your certificate.**

As part of the auditing process, the visit carried out on 4th April 2007 will be treated as a verification site audit. A follow up visit may be performed by HMRC. If we decide to carry out any further visits we will inform you beforehand.

If you do not agree with any of the improvements you are being asked to carry out please let me know, explaining exactly what the problem is.

If you have any questions don't hesitate to contact me

Regards

[REDACTED]

Contact Details:

[REDACTED] (SGS UK Ltd)  
The Carnegie Building  
Library Hill  
121 Donegall Road  
Belfast BT12 5JL  
Email: [REDACTED]@sgs.com  
Tel: 02890 278869

[REDACTED] (DOE)  
Environmental Policy Group  
20-24 Donegall Street  
Belfast  
BT1 2GP  
Email: [REDACTED]@doeni.gov.uk  
Tel: 02890 54459

**Improvement Notice Revised July 2007--ALCA reference number--137  
Northstone - Sandy Bay**

**Critical Improvement Notices (to be completed within 3 months)**

| Impact No | Risk | Improvement Measure(s) Required | Target date for closure | Status | Comments |
|-----------|------|---------------------------------|-------------------------|--------|----------|
|           |      | None identified at this time    |                         |        |          |

**Urgent Improvement Notices (to be completed within 12 months N.B. Must be completed by 28<sup>th</sup> September 2007)**

| Impact No                  | Risk                                               | Improvement Measure(s) Required                                                                                                                                                                                                                                                                                | Status                     | Comments                                                                       |
|----------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------|
| Oil / Chemical<br>OCS2     | Bulk oil and chemical delivery to tank             | Ensure safe delivery and emergency spill procedures are near delivery point (available from EHS).<br>Install automatic cut off fill pipes for filling plant.<br>Ensure deliveries are supervised.<br>Ensure filling areas are isolated from surface water system using ramps, roll-overs and hardstanding etc. | Not Complete               | Installation of automatic cut off fill pipes not applicable as per discussion. |
| OCS5                       | Manual handling of Oils and Chemicals              | Ensure filling takes place on hard standing. Staff should have access to the PPG 11.                                                                                                                                                                                                                           | Not Complete               |                                                                                |
| OGS6                       | Signage on Bulk oil and chemical tanks and stores. | All Bulk tanks should be clearly marked as to their contents.<br>Ensure delivery procedures are next to bulk storage tanks.                                                                                                                                                                                    | Completed                  |                                                                                |
| Ground Water<br>GW1<br>GW2 | Ground Water Abstraction                           | Apply to the Abstraction/Impoundment Licensing Team (Alison Anderson 02892 633482) for appropriate Abstraction licensing as per the Water Abstraction and Impoundment (licensing) Regs 2006.                                                                                                                   | Not Complete<br><i>n/c</i> |                                                                                |

Improvement Notice Revised July 2007 - ALCA reference number-137  
 Northstone - Sandy Bay

| Impact No            | Risk                                  | Improvement Measure(s) Required                                                                                                                                                                                                                                                      | Status         | Comments                                                                          |
|----------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------|
| Arch & Geo<br>AG 3   | Mineral Extraction                    | Draft a Response Plan in case archaeological remains or important geological deposits are discovered.                                                                                                                                                                                | Not applicable | As it is a processing site and there is no soil stripping.                        |
| Biodiversity<br>BD2  | Non Designated sites                  | Arrange for an investigation/survey into the potential biodiversity on site by an appropriately qualified person, including presence of protected species.<br><br>Perform and maintain a record of a periodic review for occurrence of protected species, recommended every 3-5 yrs. | Not Complete   | Biodiversity of the site will be investigated in conjunction with the QPA.        |
| BD3                  | Protected Species                     | Maintain staff training records on protected species. Where necessary draw up access and management plans to take account of species noted during the investigation/survey.                                                                                                          | Not Complete   |                                                                                   |
| Landscape<br>LV1     | Landscape Master Plan                 | Implement Landscape Management Plan for the site covering the full life cycle from current operations to final restoration and closure.                                                                                                                                              | Not applicable | As this is a processing site and there is no extraction.                          |
| LV4                  | Site Entrances                        | Ensure road surfaces at the entrance are kept clean.                                                                                                                                                                                                                                 | Implemented    |                                                                                   |
| Restoration<br>R1    | Restoration Scheme                    | Review and implement the landscape management plan.                                                                                                                                                                                                                                  | Not applicable | As above.                                                                         |
| Surface Water<br>SW6 | Site Drainage / Water Management Plan | Draft Drainage plans for the site indicating site run-off and discharge points lagoon locations, location of septic tanks and soak away etc                                                                                                                                          | Not Complete   | A drainage plan has been drafted but needs to be completed and easily accessible. |

Improvement Notice Revised July 2007 - ALCA reference number - 137  
 Northstone - Sandy Bay

Medium Term Improvement Notices (to be completed within 24 months - March 2008)

| Impact No                        | Risk                                                   | Improvement Measure(s) Required                                                                                                                                           | Status                                                | Comments                                                             |
|----------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------|
| Biodiversity<br>BD 4             | Use of Native Species                                  | Implement the landscape management plan including the planting of native species.                                                                                         | Implemented                                           | Planting scheme has been implemented at the site.                    |
| Dust<br>D8<br>Transport<br>T2 T3 | Haul Roads<br>Transport                                | Ensure there is no carry over from vehicles leaving the processing site.<br>Ensure all vehicles leaving site are correctly loaded to prevent spillage onto road surfaces. | Implemented<br><i>imp imp</i>                         |                                                                      |
| Noise<br>N1                      | General Site Operations                                | Develop operational plans and improvement strategies to ensure noise impacts from static and mobile plant are minimised.                                                  | Implemented                                           |                                                                      |
| Oil / Chemical<br>OCS1           | Bulk oil and chemical storage facilities               | Pressure test underground pipework on a regular basis.<br>Construct secondary containment in line with PPG 02                                                             | Not Complete                                          |                                                                      |
| Surface Water<br>SW 1            | Consent to discharge                                   | Maintain contact with the EHS regarding the consent discharge to Lough Neagh.<br>Install interception points before the final discharge point from the site.              | Not Complete<br><del>Not Complete</del><br><i>n/c</i> | Discussions are ongoing with the EHS regarding consent to discharge. |
| Transport<br>T5                  | Aggressive driving, and other inconsiderate activities | Implement a written policy on conduct and controls expected from subcontract drivers.                                                                                     | Completed                                             |                                                                      |

**Improvement Notice Revised July 2007 – ALCA reference number – 137  
Northstone - Sandy Bay**

**Long Term Improvement Notices ( to be completed within the term of the Agreement)**

| Impact No              | Risk                               | Improvement Measure(s) Required                                                           | Status         | Comments                                                                  |
|------------------------|------------------------------------|-------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------|
| Noise<br>N10           | Audible reversing alarms           | Consideration of use of alternative alarm systems when replacing plant i.e. SMART alarms. | Implemented    |                                                                           |
| Oil / Chemical<br>OCS3 | Location of oil storage facilities | Oil storage facilities should be sited away from surface water drainage.                  | Not applicable | As by the nature of the operating site fuel has to be close to the shore. |

**Verification Visit to Northstone ALCA 137 on 4<sup>th</sup> April 2007**

**Site: Sandybay, 19 Shore Road, Upper Ballinderry**

**Contact:** [REDACTED]

Accompanied by [REDACTED]

This is a Lough Neagh dredging site and as such a lot of the normal issues are not applicable.

The major concern is the potential for pollution from the storage of fuel on the Lough's edge to re-fuel the barges. They were advised to take every possible precaution in relation to both storage and filling and protection from vandalism.

The only other major concern is the obvious carry-over onto the road which they sweep on a regular basis. They are to consider alternative means to address this issue.

- Other issues are the completion of a site drainage plan
- Ongoing discussion with Water Mgt Unit re interception point and discharge into Lough; and
- biodiversity survey (to be arranged through QPA).

[REDACTED]

[REDACTED]

Action of [redacted]

Aggregate Levy Credit Agreement Number - 137

Confirmation Fax Back - (to be returned upon receipt)  
Fax Number 02890 544599

- The date indicated is convenient \*
- The date indicated is not convenient because.....

\* our Savoy bay site is quite small and the only office accommodation is a small dispatch office, we would not have an office facility to offer you. Please contact me on [redacted] if this presents a problem.  
Thanks.

Signed [redacted] - Director.

Operator Name, address (please print)

on behalf of:  
 NORTHSTAR (NI) LTD.  
 7 CRISTON ROAD  
 TOWNEBRIDGE.  
 BT 71 3SD

[REDACTED]  
Northstone (NI) Limited  
7 Creagh Road  
Toomebridge  
BT41 3SD

**Site – Sandybay Site 19 Shore Road Upper Ballinderry**

ALCA reference Number – 137

29th March 2007

Dear [REDACTED]

As part of the Aggregate Levy Credit Scheme (ALCS) we intend to carry out an 'on site' verification visit. The purpose of the visit is two-fold: -

- to check the consistency and accuracy of the submitted Primary Environmental Audit; and
- to discuss the issues associated with the Improvement Notice.

We intend to visit your site at **Sandybay Site** on **Wednesday 4<sup>th</sup> April 2007** We trust this date is convenient and would be grateful if you would confirm this using the below fax back.

The agenda for the visit will be approximately: -

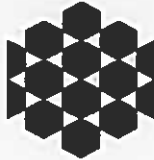
|         |                                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------------------|
| 10.00am | Arrival & meeting to discuss process                                                                               |
| 11.00am | Site Tour                                                                                                          |
| 1.30pm  | Audit of Associated records, followed by meeting to discuss issues, relevant improvements required and way forward |

During the verification audit we will be checking site issues and associated environmental records, (see the attached table), the relevant records need to be readily available during the visit for verification purposes.

There may also be instances where you will not have the appropriate documentation and records indicated as these may not be applicable to the range of the operations on site.

If any issues or inaccuracies arise during the visit against the independent environmental audit or the Improvement Notices, we can discuss these and the Improvement Notice may be revised to take into consideration the current status of the operations.

copy



Department of the  
**Environment**

www.doeni.gov.uk

**Environment Policy Division**

20-24 Donegall Street, Belfast, BT1 2GP

Telephone: (028) 9025 1300

Facsimile: (028) 9054 4520

Email: [envpol@doeni.gov.uk](mailto:envpol@doeni.gov.uk)

12<sup>th</sup> April 2006

FAO [REDACTED]  
Northstone (NI) limited – Concrete Division  
7 Creagh Road  
Toomebridge  
BT41 3SD

Dear [REDACTED]

**Re: ALCS Improvement Notices**

Thank you for your letter of 7<sup>th</sup> April following our meeting on 5<sup>th</sup> April. We found the meeting useful and hope it clarified the issues. We are keen to ensure all members of the Aggregates Levy Credit Scheme take on board the requirement to build in environmental improvements to their operations on an ongoing and incremental basis, as laid out in Improvement Notices.

While I appreciate your views on the necessity or otherwise for wheel washes and covers, nevertheless spillage on roads remains an issue. I will be interested to hear what other methods you propose to use. If these prove ineffective the issue of wheel washes and covers is likely to come up for discussion again.

Regarding the storage of gas oil at the Lough shore, I would prefer this not to be the case but I appreciate the practical need for it being there. I would, however, stress it is critical that this particular facility must be of the highest standard in terms of bund, signage, other safety mechanisms etc. in order to minimise the real potential for a pollution incident. This issue will receive particular scrutiny at the next review or site visit, if this occurs earlier.

I will look forward to the next audit providing clear evidence that, environmentally, things have moved forward.

Yours sincerely

[REDACTED]

[REDACTED]



**NORTHSTONE**

The Right Choice

**SCOTT**

**Readyuse**

**Northstone (NI) Limited - Concrete Division**

7 Creagh Road, Toomebridge. BT41 3SD

Telephone: : 028 7965 0461 Fax: 028 7965 0238

E-mail: [concretediv@northstone-ni.com](mailto:concretediv@northstone-ni.com)

Web : [www.northstone-ni.com](http://www.northstone-ni.com)

Registered Number N.I. 4078

OUR REF BS/MB/CD0909

YOUR REF n/a

DATE 7 April 2006

DELIVERY Post

[REDACTED]

Environmental Policy Division  
20-24 Donegal Street  
Belfast  
BT1 2GP

Dear [REDACTED]

**RE: A.L.C.S. IMPROVEMENT NOTICES**

May I take this opportunity to thank both you and your colleague [REDACTED] for taking the time to come to our offices on Wednesday 5<sup>th</sup> April to discuss our concerns regarding the above improvement notices.

We agree with you that the main environmental issues on our lough sites is the handling and storage of oils and chemicals and are happy to set the suggested improvements regarding this as part of our objectives and targets for the incoming year.

We will take on board all other issues in the notices as part of our continuous improvement program with the exception of the issues listed below which we discussed at our meeting.

Reference 1 – DUST (D8, T<sub>2</sub>, T<sub>3</sub>) We understand the objective to reduce the incidence of spillage of sand and dust on the roads, but remain unconvinced that wheel washes and covers are necessary to achieve improvement on this issue. We will consider other methods.

Reference 2 – OIL/CHEMICAL (OCS3) As explained at our meeting, it is not practical for us to store gas oil away from the lough edge as we need to re-fuel sand barges. As explained we have already reduced our storage capacity on the lough edge from 28,000 litres to 2,500 litres and are well aware that we must take every reasonable precaution in delivery, handling and re-fuelling of gas oil.

As requested, listed below are the aggregate sites owned by Northstone (NI) Limited, Concrete Division.

Cont.....



**NIFRS**



(Please note there is also a Northstone Quarry Division which is a sister company.)

- (a) Hutchinsons Site ✓ - Scott  
51 Creagh Road  
Toomebridge BT41 3SD
- (b) Ballyginniff Site ✓ - Scott  
Loughview Road  
Crumlin BT29 4EE
- (c) Sandy Bay Site ✓ - Scott  
19 Shore Road  
Upper Ballinderry BT28 2LF
- (d) Gregg's Pit - Gregg  
Ballybriest Road  
Draperstown BT80 9TZ

We trust the above is to your satisfaction and if you require any further information please do not hesitate to contact the writer.

Yours sincerely,

[Redacted Signature]

[Redacted Name]

Environmental Manager



**NIFRS**



Aggregate Levy Credit Agreement Number - 137

**Acknowledgement Slip - (to be returned within 2 weeks of receipt of Improvement Notices)**

I agree that I have received and understand the improvement notices attached. \*\*\* See attached letters

I do not agree to implement the improvements set out on the Improvement Notices because.....

Signed \_\_\_\_\_  
\_\_\_\_\_

Operator Name, address (please print)

**Head Office:**

Northstone (NI) Ltd – Concrete Division  
7, Creagh Road, Toomebridge,  
Co. Antrim, N. Ireland  
BT 41 3SD

**Site :**

Northstone (NI) Ltd – Concrete Division  
Sandybay Site,  
19 Shore Road  
Upper Ballinderry,  
Co. Antrim. BT28 2LF  
ALCA reference Number - 137

FAO [REDACTED]  
Northstone (NI) Ltd – Concrete Division  
Sandybay Site,  
19 Shore Road  
Upper Ballinderry,  
Co. Antrim  
BT28 2LF  
ALCA reference Number - 137

### Reference – Aggregates Levy Credit Agreement Improvement Notices

Dear Operator

As part of the agreement you signed when you joined the Aggregates Levy Credit Scheme (ALCS) you undertook to have an audit carried out at your operating site. This Primary Audit was performed by [REDACTED] on the 12<sup>th</sup> - 14<sup>th</sup> September 2005 for the Sand Plant at Sandy Bay, Upper Ballinderry.

We have been appointed by DOE to review this audit and a number of recommendations for improvement have been drawn up in the form of the attached Improvement Notices (as explained in the Code of Practice and Audit Protocol).

Improvement notices are subdivided into 4 sections:

**Critical Notices** – High priority improvement notices that require immediate attention and require an action plan and closure within 3 months. Not all sites will receive critical notices.

**Urgent Improvement Notices** - that will require to be completed within 12 months.

**Medium Term Improvement Notices** - requiring improvement plans to be put in place, to be completed within 24 months.

**Long Term Improvement notices** – issues identified in the initial audit which may be outstanding after 24 months. We will consider these items at the next review (and any new ones which may arise) but the aim is to have these completed as and when practical before March 2011.

As part of the auditing process, verification site audits will be also performed on all operators. Operators with the most numerous Critical Notices and Immediate Improvement Notices will be visited first to check the environmental audits and

performance. Before any visit is performed we will inform the operator concerned.

If during verification visits actions to address Critical and/or Urgent Improvement Notices are not in place this may result in a 'Cause for Concern' report being issued to the operator.

The 'Cause For Concern' report will require immediate response (within 1 month) detailing the revised timescales and actions to implement the improvement notices.

While you have 24 months before your next Audit is due, any critical improvements highlighted must be completed within three months and we will seek confirmation these have been actioned. We will also contact you in approximately 18 months to see how you are progressing and to remind you that you need to arrange to have a new audit carried out before the 24 months are up.

The Improvement Notices attached should be reviewed and the attached confirmation form returned to me at the address below within 2 weeks of receipt. Failure to return the receipt could lead to agreement suspension and the possible withdrawal of your certificate.

If you do not agree with any of the improvements you are being asked to carry out please let me know, explaining exactly what the problem is.

If you have any questions don't hesitate to contact me

Regards

[REDACTED]

Contact Details:

[REDACTED] (SGS UK Ltd)  
The Carnegie Building  
Library Hill  
121 Donegall Road  
Belfast BT12 5JL  
Email: [REDACTED]@sgs.com  
Tel: 02890 278869

[REDACTED] (DOE)  
Environmental Policy Group  
20-24 Donegall Street  
Belfast  
BT1 2GP  
Email: [REDACTED]@doeni.gov.uk  
Tel : 02890 544593

Improvement Notice – ALCA reference number – 137  
 Northstone - Sandy Bay

Critical Improvement Notices (to be completed within 3 months)

| Impact No | Risk | Improvement Measure(s) Required | Target date for closure | Specific Improvement Plans (to be completed by operator) | Person Resp | Date |
|-----------|------|---------------------------------|-------------------------|----------------------------------------------------------|-------------|------|
|           |      | None identified at this time    |                         |                                                          |             |      |

Urgent Improvement Notices (to be completed within 12 months)

| Impact No              | Risk                                   | Improvement Measure(s) Required                                                                                                                                                                   |
|------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Arch & Geo<br>AG 3     | Mineral Extraction                     | Draft a Response Plan in case archaeological remains or important geological deposits are discovered.                                                                                             |
| Biodiversity<br>BD 2   | Non Designated sites                   | Implement Landscape management plans as drafted from 'Site Review'                                                                                                                                |
| BD 3                   | Protected Species                      | Maintain staff training records on protected species.<br>Perform a periodic review for occurrence of protected species.                                                                           |
| Landscape<br>LV1       | Landscape Master Plan                  | Implement Landscape Management Plan for the site covering the full life cycle from current operations to final restoration and closure.                                                           |
| LV4<br>LV5             | Site Entrances<br>Good House Keeping   | Keep road surfaces cleaned.                                                                                                                                                                       |
| Oil / Chemical<br>OCS2 | Bulk oil and chemical delivery to tank | Ensure safe delivery and emergency spill procedures are near delivery point (available from EHS).<br>Install automatic cut off fill pipes for filling plant.<br>Ensure deliveries are supervised. |

**Improvement Notice – ALCA reference number – 137  
Northstone - Sandy Bay**

| Impact No         | Risk                                              | Improvement Measure(s) Required                                                                                                                                                             |
|-------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OCC5              | Manual handling of Oils and Chemicals             | Ensure filling areas are isolated from surface water system using ramps, roll-overs and bunds etc<br>Ensure filling takes place on hard standing.<br>Staff should have access to the PPG 11 |
| OGS6              | Signage on Bulk oil and chemical tanks and stores | All Bulk tanks should be clearly marked as to their contents.<br>Ensure delivery procedures are next to bulk storage tanks.                                                                 |
| Restoration R1    | Restoration Scheme                                | Review and implement the landscape management plan.                                                                                                                                         |
| Surface Water SW6 | Site Drainage / Water Management Plan             | Draft Drainage plans for the site indicating site run-off and discharge points.<br>lagoon locations, location of septic tanks and soak away etc                                             |

Improvement Notice – ALCA reference number – 137  
 Northstone - Sandy Bay

Medium Term Improvement Notices (to be completed within 24 months)

| Impact No                     | Risk                                                   | Improvement Measure(s) Required                                                                                          |
|-------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Biodiversity<br>BD 4          | Use of Native Species                                  | Implement the landscape management plan including the planting of native species.                                        |
| Dust<br>D8<br>T2 T3           | Haul Roads<br>Transport                                | Ensure vehicles leaving site are wheel washed, cover and trim loaded vehicles.                                           |
| Ground<br>GW1                 | Ground Water Monitoring                                | Identify and regularly monitor sensitive receptors and record data.                                                      |
| Noise<br>N1                   | General Site Operations                                | Develop operational plans and improvement strategies to ensure noise impacts from static and mobile plant are minimised. |
| Oil / Chemical<br>OCS1        | Bulk oil and chemical storage facilities               | Pressure test underground pipework on a regular basis.<br>Construct secondary containment in line with PPG 02            |
| Surface Water<br>SW 1<br>SW 2 | Consent to discharge<br>Settling of Particulates       | Maintain contact with the EHS regarding the consent discharge to Lough Neagh.                                            |
| Transport<br>T5               | Aggressive driving, and other inconsiderate activities | Implement a written policy on conduct and controls expected from drivers.                                                |

**Improvement Notice – ALCA reference number – 137  
Northstone - Sandy Bay**

**Long Term Improvement Notices ( to be completed within the term of the Agreement)**

| Impact No           | Risk                               | Improvement Measure(s) Required                                                          |
|---------------------|------------------------------------|------------------------------------------------------------------------------------------|
| Noise N10           | Audible reversing alarms           | Consideration of use of alternative alarm systems when replacing plant. ie SMART alarms. |
| Oil / Chemical OCS3 | Location of oil storage facilities | Oil storage facilities should be sited away from surface water drainage.                 |



Department of the  
**Environment**  
www.doeni.gov.uk



**HM Revenue  
& Customs**

COPY

### **AGGREGATES LEVY CREDIT CERTIFICATE**

This certificate is issued on 4<sup>th</sup> July 2006 by the Department of the Environment for and on behalf of the Commissioners of Customs and Excise, under regulation 5 of the Aggregates Levy (Northern Ireland Tax Credit) Regulations 2004 and shall have effect from 1<sup>st</sup> April 2005, to:

**Name**            **Northstone (NI) Limited**

**Address**        **Sandybay Site**

**19 Shore Road**

**Upper Ballinderry**

**Lisburn**

**BT28 2LF**



**Authorised Officer of the  
Department of the Environment**

**ALCA No: 137**



Department of the  
**Environment**  
www.doeni.gov.uk



## **AGGREGATES LEVY CREDIT AGREEMENT**

**THIS AGREEMENT** is made on the 16<sup>th</sup> day of June 2006

### **BETWEEN**

- (1) The Department of the Environment of Clarence Court, 10-18 Adelaide Street, Belfast, acting as agents of the Commissioners of Customs and Excise; and
- (2) **Northstone N.I. Limited**

whose registered office is situate at;

**7 Creagh Road**

**Toomebridge**

**BT41 3SD**

### **1. Interpretation**

1.1. In this Agreement –

“Aggregate Levy Credit Scheme” means the arrangements made for the provision of tax credits under Section 30A of the Finance Act 2001 in Northern Ireland during the period of 1<sup>st</sup> April 2004 to 31<sup>st</sup> March 2011;

“Aggregates Levy Credit Certificate” shall have the meaning given by Article 30A(13) of the Finance Act 2001;

“audit” means an environmental audit carried out in accordance with the audit protocol set out in the Code of Practice;

"audit report" means a report compiled by the environmental auditor outlining the findings of the environmental audit;

"Code of Practice" means the Code of Practice and Audit Protocol as published by the Department in September 2004 and as amended or revised from time to time;

"the Department" means the Department of the Environment, Clarence Court, 10-18 Adelaide Street, Belfast, BT1 2GB;

"environmental auditor" means an individual holding the qualifications and experience set out in paragraph 3.3 of the Code of Practice;

"improvement notice" shall bear the meaning assigned to it by the Code of Practice;

"Operator" means;

**Northstone N.I. Limited**

whose registered office is situate at;

**7 Creagh Road**

**Toomebridge**

**BT41 3SD**

"public body" means a body established by or under a statutory provision;

"registered site" is ;

**Sandybay Site**

**19 Shore Road**

**Upper Ballinderry**

**BT28 2LF**

"the Regulations" means the Aggregates Levy (Northern Ireland Tax Credit) Regulations 2004 as from time to time amended, revised or re-enacted;

"specified targets" means the targets for improvements in environmental practice for the registered site; and

"specified time limits" means the time limits specified in the improvement notice for the achievement of the specified targets.

1.2. Words and expressions used in this Agreement and in the Regulations have the same meaning in this Agreement as they have in the Regulations.

1.3. Words in the singular shall include the plural and vice versa.

## **2. Recitals**

2.1. Under the authority of section 30A of the Finance Act 2001 (as inserted by section 291(2) of the Finance Act 2004) and the Regulations, the Commissioners of Customs and Excise have made provision for a transitional tax credit in Northern Ireland.

2.2. The Operator is registered under section 24 of and Schedule 4 to the Finance Act 2001 for aggregates levy in relation to the registered site and is the site operator of that site.

## **3. Obligations of the Operator**

3.1. The Operator shall in relation to the registered site comply with the Code of Practice.

3.2. The Operator shall furnish to the Department, within the period specified by the Department, an audit subject to and in accordance with the audit protocol prepared by an environmental auditor engaged on his behalf.

3.3. Where the Department serves an improvement notice on the Operator under and in accordance with the Code of Practice, the Operator shall carry out and complete the environmental improvements specified in the notice to the standard specified in that notice.

3.4. The Operator shall provide an audit report to the Department evidencing the improvement to the standard specified in the improvement notice by the date specified in that notice.

3.5. The Operator shall permit the Department and its authorised agents to enter upon the registered site at any time for the purpose of monitoring compliance with the Code of Practice.

3.6. The Operator shall, upon request, furnish to the Department or its authorised agent all records pertaining to the operation of the Code of Practice and the Aggregates Levy Credit Scheme. The Department and its authorised agents may inspect, examine, and take copies of all or any of these records.

#### **4. Obligations of the Department**

In consideration of the Operator entering into and complying with the terms of this Agreement, the Department shall issue an aggregates levy credit certificate to the Operator. Such a certificate shall remain valid for so long as this Agreement is not terminated whereupon it shall be withdrawn with effect from a current date.

#### **5. Term**

5.1. The term of this Agreement shall commence on 1<sup>st</sup> April 2005 and expire on 31<sup>st</sup> March 2011 and the parties hereto shall be deemed to have entered into this Agreement on 1<sup>st</sup> April 2005.

5.2. Any failure to comply with the terms of this Agreement on the part of the Operator shall result in its termination. The Department shall serve notice of such termination on the Operator specifying a date which shall not predate the date of notification.

5.3. The Operator may terminate the Agreement at any time during the agreed term. He shall serve notice of such termination on the Department specifying a date which shall not predate the date of notification.

## **6. Service of Notices**

Any notice served under this Agreement shall be in writing and may be served electronically or by post.

## **7. Dispute Resolution**

7.1. In the event of any dispute or difference arising out of or in connection with this Agreement, either party may, upon giving written notice within 28 days thereof, refer the dispute to an independent arbitrator, to be appointed by the President or a Vice-President of the Chartered Institute of Arbitrators (CI Arb). The referring party will be responsible for payment of any fee arising.

7.2. The arbitration process will be administered by the CI Arb subject to the Rules of the Arbitration Procedure for the Aggregates Levy Credit Scheme (the Procedure).

7.3. The CI Arb, as the arbitration appointing and administering body, shall charge a fee for their services, which shall be set and agreed between the DOE and the CI Arb from time to time.

7.4. The parties agree to be bound by the Arbitrator's decision, which shall be final and binding in law.

## **8. Confidentiality/disclosure to other Government departments**

The Department may disclose any information held by it for the purposes of the administration of the Aggregates Levy Credit Scheme to a person:

- (a) in pursuance of any statutory or common law obligation or court order; or
- (b) for the purposes of the discharge by a public body of its functions.

**Signed for and on behalf  
of the Department of  
the Environment acting  
as an agent of the Commissioners  
of Customs and Excise**



**Authorised Officer**

**Signed for and on behalf  
of (Operator)\*\***



**Authorised Person**

**\*\***

If a Limited Company the Director or Secretary should sign and note their title beside the signature.

If a firm or Partnership then one of the partners should sign and enter "partner" beside their name

If a sole Operator then the Operator's signature suffices.

**ALCA Ref. No. 137**



Department of the  
**Environment**

www.doeni.gov.uk

**Environmental Policy Group**

20-24 Donegall Street  
Belfast  
BT1 2GP

[REDACTED]  
Scott (Toomebridge) Limited  
Sandybay Site  
19 Shore Road  
Upper Ballinderry  
Co. Antrim  
BT28 2LF

Telephone: 02890 544526  
02890 544511  
Facsimile: 02890 544520  
Email: [REDACTED]@doeni.gov.uk  
[REDACTED]doeni.gov.uk  
Our Ref  
Your Ref  
Date 13<sup>th</sup> January 2005

Dear Sir,

#### **AGGREGATES LEVY CREDIT CERTIFICATE**

I have pleasure in enclosing an Aggregates Levy Credit Certificate for your registered site at **Sandybay Site, 19, Shore Road, Upper Ballinderry, Lisburn, Co. Antrim**. You should keep it in a safe place and be able to produce it, on request, to the Commissioners of Customs and Excise.

This Certificate entitles you to credit of 80% of the full rate of the Aggregates Levy. It is effective from 1st April 2004 and shall remain in force for the period of the scheme, that is until 31<sup>st</sup> March 2011, provided that you comply throughout that period with the Aggregates Levy Credit Agreement between the Department and **Scott (Toomebridge) Limited**. The Department will establish and maintain a register of traders who hold an Aggregates Levy Credit Certificate. Failure to comply with the terms of the Aggregates Levy Credit Agreement may result in the Certificate being withdrawn and the Commissioners of Customs and Excise being notified that you are liable from the date of withdrawal, for the full rate of the Aggregates Levy.

Under the terms of the Aggregates Levy Credit Agreement, you are now obliged to commission the first of a series of environmental audits of your registered site in accordance with the Code of Practice and Audit Protocol. You are responsible for ensuring that the environmental auditor you appoint is suitably accredited (see paragraph 3.3 of the Code of Practice).

**The due date for submission of your first environmental audit to the Department is 24<sup>th</sup> October 2005.**

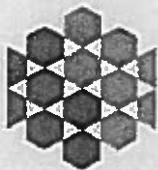
On receipt of your environmental audit, the Department will set environmental improvement targets for your site and notify you of the date by which they are to be implemented. Implementation will be subject to verification by the Department.

If you are unclear about any aspect of this letter please contact the Department on either of the numbers above.

Yours sincerely,

[REDACTED]

[REDACTED]



Department of the  
**Environment**

www.doeni.gov.uk



**HM Customs and Excise**

COPY

## AGGREGATES LEVY CREDIT CERTIFICATE

This certificate is issued on 17<sup>th</sup> November 2004 by the Department of the Environment for and on behalf of the Commissioners of Customs and Excise, under regulation 5 of the Aggregates Levy (Northern Ireland Tax Credit) Regulations 2004 and shall have effect from 1<sup>st</sup> April 2004, to:

Name        **Scott (Toomebridge) Limited**


Address     **Sandybay Site**

**19 Shore Road**

**Upper Ballinderry**

**Lisburn**

**BT28 2LF**

  
\_\_\_\_\_  
Authorised Officer of the  
Department of the Environment

ALCA No: 137



Department of the  
**Environment**  
www.doeni.gov.uk



**HM Customs and Excise**

## **AGGREGATES LEVY CREDIT AGREEMENT**

**THIS AGREEMENT** is made on the 19<sup>th</sup> day of October 2004

### **BETWEEN**

- (1) The Department of the Environment of Clarence Court, 10-18 Adelaide Street, Belfast, acting as agents of the Commissioners of Customs and Excise; and
- (2) **Scott (Toomebridge) Limited** whose registered office is situate at;

**7 Creagh Road**

**Toomebridge**

**BT41 3SD**

### **1. Interpretation**

1.1. In this Agreement –

“Aggregate Levy Credit Scheme” means the arrangements made for the provision of tax credits under Section 30A of the Finance Act 2001 in Northern Ireland during the period of 1<sup>st</sup> April 2004 to 31<sup>st</sup> March 2011;

“Aggregates Levy Credit Certificate” shall have the meaning given by Article 30A(13) of the Finance Act 2001;

"audit" means an environmental audit carried out in accordance with the audit protocol set out in the Code of Practice;

"audit report" means a report compiled by the environmental auditor outlining the findings of the environmental audit;

"Code of Practice" means the Code of Practice and Audit Protocol as published by the Department in September 2004 and as amended or revised from time to time;

"the Department" means the Department of the Environment, Clarence Court, 10-18 Adelaide Street, Belfast, BT1 2GB;

"environmental auditor" means an individual holding the qualifications and experience set out in paragraph 3.3 of the Code of Practice;

"improvement notice" shall bear the meaning assigned to it by the Code of Practice;

"Operator" means **Scott (Toomebridge) Limited**

**7 Creagh Road**

**Toomebridge**

**BT41 3SD**

"public body" means a body established by or under a statutory provision;

"registered site" is **Sandybay Site**

**19 Shore Road**

**Upper Ballinderry**

**BT28 2LF**

"the Regulations" means the Aggregates Levy (Northern Ireland Tax Credit) Regulations 2004 as from time to time amended, revised or re-enacted;

“specified targets” means the targets for improvements in environmental practice for the registered site; and

“specified time limits” means the time limits specified in the improvement notice for the achievement of the specified targets.

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1.3. Words in the singular shall include the plural and vice versa.

## **2. Recitals**

2.1. Under the authority of section 30A of the Finance Act 2001 (as inserted by section 291(2) of the Finance Act 2004) and the Regulations, the Commissioners of Customs and Excise have made provision for a transitional tax credit in Northern Ireland.

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## **3. Obligations of the Operator**

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7.4. The parties agree to be bound by the Arbitrator's decision, which shall be final and binding in law.

## **8. Confidentiality/disclosure to other Government departments**

The Department may disclose any information held by it for the purposes of the administration of the Aggregates Levy Credit Scheme to a person:


(a) in pursuance of any statutory or common law obligation or court order; or

(b) for the purposes of the discharge by a public body of its functions.

**Signed for and on behalf  
of the Department of  
the Environment acting  
as an agent of the Commissioners  
of Customs and Excise**

  
\_\_\_\_\_  
**Authorised Officer**

**Signed for and on behalf  
of (Operator)\*\***

  
\_\_\_\_\_  
**Authorised Person** *Managing Director*

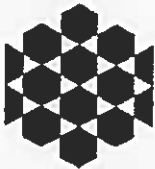
**\*\***

If a Limited Company the Director or Secretary should sign and note their title beside the signature.

If a firm or Partnership then one of the partners should sign and enter "partner" beside their name

If a sole Operator then the Operator's signature suffices.

**ALCA Ref. No. 137**



Department of the Environment

www.doeni.gov.uk



HM Customs and Excise

APPLICATION TO ENTER INTO AN AGGREGATES LEVY CREDIT AGREEMENT WITH THE DEPARTMENT OF THE ENVIRONMENT

Please read the Guidance Notes before completing this form.

|              |                              |                             |                                                                                                              |
|--------------|------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Box 1</b> | <b>Operator/Company Name</b> | SCOTT (TOOMEBRIDGE) LIMITED |                                                                                                              |
| <b>Box 2</b> | <b>Address of Site</b>       | <b>Box 3</b>                | <b>Contact Details</b><br>(Please provide contact information for an individual who can deal with enquiries) |
|              | SANDYBAY SITE                | <b>Name</b>                 | [REDACTED]                                                                                                   |
|              | 19, SHORE ROAD               | <b>Phone</b>                | [REDACTED]                                                                                                   |
|              | UPPER BALLINDERRY            | <b>Mobile</b>               | [REDACTED]                                                                                                   |
|              | CO. ANTRIM                   | <b>Email</b>                | [REDACTED]                                                                                                   |
|              | BT 28 2 LF                   |                             |                                                                                                              |
| <b>Box 4</b> | <b>OSNI Grid Reference</b>   | <b>Box 5</b>                | <b>Aggregates Levy (HMCE) Registration No.</b>                                                               |
|              | UNKNOWN                      |                             | 10581 0000                                                                                                   |
|              | SEE BOX 7                    |                             |                                                                                                              |

(Official Use Only) Please do not write below this line.

|                                |
|--------------------------------|
| <b>Date Rec'd</b><br>23.6.2004 |
|--------------------------------|

|                                 |
|---------------------------------|
| <b>Checked by</b><br>[REDACTED] |
| <b>Date</b> 29/9/2004           |

|                                             |
|---------------------------------------------|
| <b>Date Agreement issued.</b><br>21.10.2004 |
|---------------------------------------------|

**Box 6 Mineral by type.**  
Please tick all types of mineral extracted at this site.

**6a Igneous Rock**

|                          |          |
|--------------------------|----------|
| <input type="checkbox"/> | Basalt   |
| <input type="checkbox"/> | Granite  |
| <input type="checkbox"/> | Dolerite |
| <input type="checkbox"/> | Gabbro   |

**6e Sedimentary Rock**

|                          |           |
|--------------------------|-----------|
| <input type="checkbox"/> | Sandstone |
| <input type="checkbox"/> | Gritstone |
| <input type="checkbox"/> | Greywacke |
| <input type="checkbox"/> | Shale     |
| <input type="checkbox"/> | Limestone |
| <input type="checkbox"/> | Chalk     |

**6b Unconsolidated Sediments**

|                                     |                |
|-------------------------------------|----------------|
| <input checked="" type="checkbox"/> | Sand           |
| <input type="checkbox"/>            | Clay           |
| <input checked="" type="checkbox"/> | Gravel (< 190) |

**6f Metamorphic Rock**

|                          |           |
|--------------------------|-----------|
| <input type="checkbox"/> | Schist    |
| <input type="checkbox"/> | Granulite |
| <input type="checkbox"/> | Migmatite |
| <input type="checkbox"/> | Hornfels  |
| <input type="checkbox"/> | Slate     |

**6c Economic Minerals**

|                          |                    |
|--------------------------|--------------------|
| <input type="checkbox"/> | Rock Salt          |
| <input type="checkbox"/> | Diatomite          |
| <input type="checkbox"/> | Fireclay           |
| <input type="checkbox"/> | Perlite            |
| <input type="checkbox"/> | Lignite            |
| <input type="checkbox"/> | Metalliferous ores |

**6g Miscellaneous**

|                          |           |
|--------------------------|-----------|
| <input type="checkbox"/> | Bentonite |
|--------------------------|-----------|

**6d Unsound Rock & Extraction Waste**

|                          |                         |
|--------------------------|-------------------------|
| <input type="checkbox"/> | Red Laterite            |
| <input type="checkbox"/> | Bauxite                 |
| <input type="checkbox"/> | Vesicular/Rotted Basalt |
| <input type="checkbox"/> | Mine Spoil/gangue       |

**6h Others (please list)**

|  |
|--|
|  |
|  |
|  |
|  |

**Box 7 Planning Permission**  
Do you hold (or have you applied for) planning permission in respect of this site?  
 NO  YES If yes please give Planning Reference No. (or date of application)  
N/A - ESTABLISHED USER RIGHTS PRIOR TO INTRO<sup>n</sup> OF 1972 PLANNING ORDER

**Box 8 Water Discharge Consent (WDC)**  
Do you hold (or have you applied for) a Water Discharge Consent (WDC) in respect of this site?  
NO  YES If yes please give WDC Reference No. (or date of application)  
APPLICATION DATE: 08/03/2000

**Box 9 Industrial Pollution Control (IPC) Licence (if applicable)**  
Do you hold (or have you applied for) an Industrial Pollution Control (IPC) Licence in respect of this site? (see guidance notes)  
 NO  YES If yes, please give IPC Licence Reference No. (or date of application)  
N/A - ONLY SAND PRODUCTION

**Box 10 Landfill Sites (if applicable)**

NO YES Is this site (or any portion of it) used as a landfill site? If no, please go to Box 11.

NO YES If yes, are the landfill site and the quarry site operated by the same individual or company? If no, please go to Box 11.

NO YES If yes, do you hold (or have you applied for) an Integrated Pollution Prevention Control (IPPC) authorisation. (see guidance notes). Please give details below.

NO YES Do you hold, or have you applied for a Waste Management Licence. If yes, please provide the licence reference number.

**Box 11 Additional Accreditation**

Please tick any that currently apply to this site.

ISO 14001

EMAS

**Box 12 DECLARATION** You or someone on your behalf must sign below:

I, [redacted] declare that the  
(Full name of signatory in BLOCK LETTERS)

information given above is true and complete.

Signature: [redacted] Date: 21/6/04

A false declaration can result in prosecution.

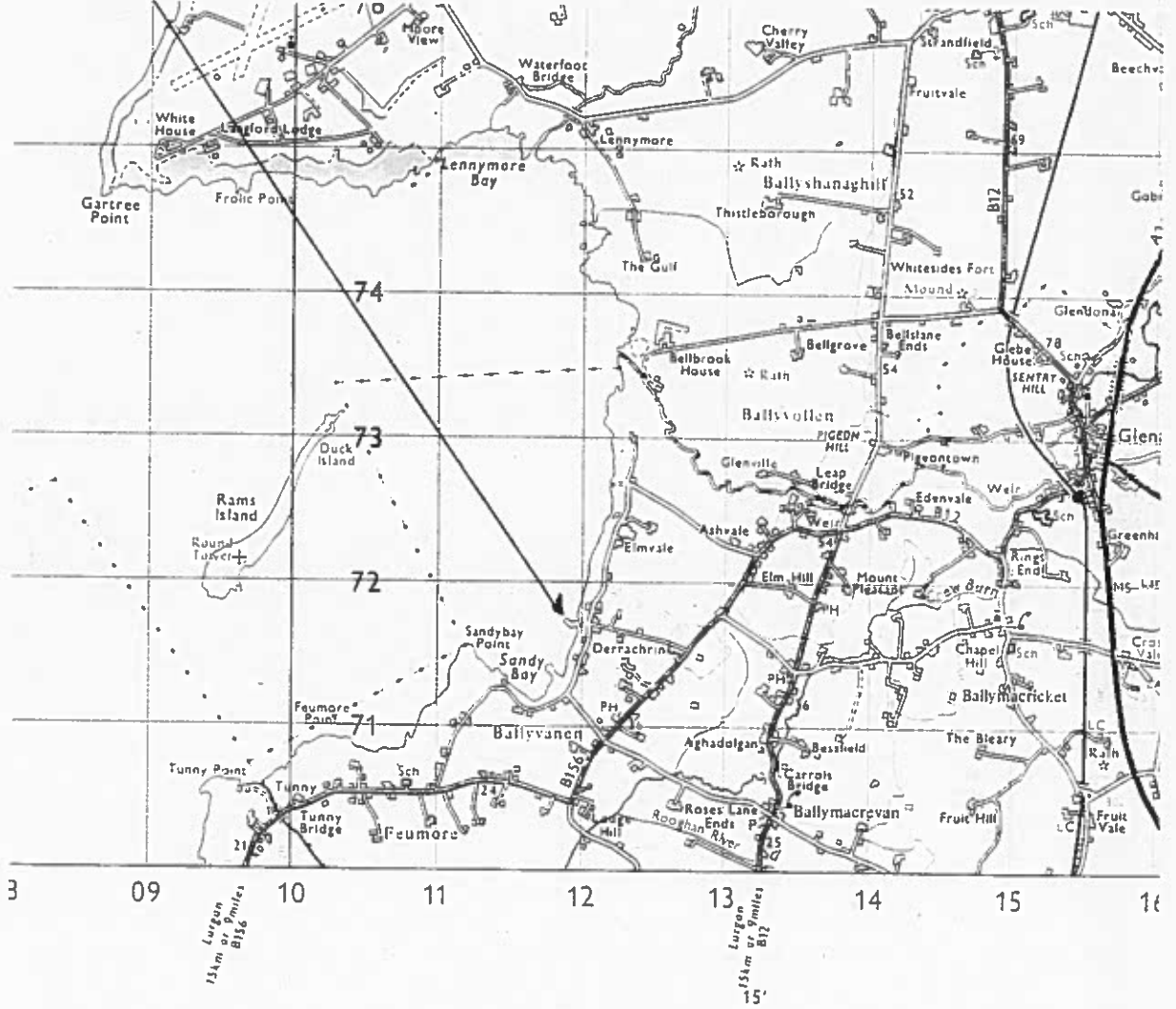
**Official Use Only (Please do not write below this line)**

IPC 2<sup>nd</sup> order - See e-mail attached from [redacted] dated 7/7/04

Water Consent - 2<sup>nd</sup> order - Application held per [redacted] with  
d.c. 14/7/2004

PLANNING PERMISSION - Accepted 2<sup>nd</sup> order - See letter  
attached dated 20/9/04 from [redacted] to  
operator.

Scott Site



COPY



Department of the  
**Environment**  
www.doeni.gov.uk

**Environmental Policy Group**  
20-24 Donegall Street  
Belfast  
BT1 2GP

[REDACTED]  
Northstone Limited- Concrete Division  
7 Creagh Road  
Toomebridge  
BT41 3SD

Telephone: 02890 544589  
02890544582  
Facsimile: 02890544520  
Email: [REDACTED]@doeni.gov.uk  
[REDACTED]@doeni.gov.uk

Our Ref ALCA 60,137,138 and 139  
Your Ref  
Date 07 June 2006

Dear [REDACTED]

**AGGREGATES LEVY CREDIT AGREEMENT**

Under the terms of the Aggregates Levy Credit Agreement I would be grateful if you could comply with the administration requirements of this letter in respect of the operations recently acquired by Northstone, namely, Gregg's Pit and the three sites previously owned by Scotts.

**Leslie Gregg Sand and Gravel (ALCA number 60)**

Please return the original certificate, contact Planning and advise them of change of ownership and contact [REDACTED], Water Management Unit on 028 92623034 for a change of ownership application form in relation to the Water Discharge consent.

**Sites at Lisburn, Toomebridge and Crumlin (formerly Scott)  
(ALCA numbers, 137, 139 and 138)**

Please return the original certificate, complete a new application form (enclosed) for each site, contact Planning and advise them of change of ownership and contact [REDACTED] Water Management Unit for a change of ownership application form for each of the three sites

If you have any questions in relation to the above please contact me on 028 90544582.

Yours faithfully

[REDACTED]



Department of the  
**Environment**  
www.doeni.gov.uk

**Environmental Policy Group**

20-24 Donegall Street  
Belfast  
BT1 2GP

X2  
Copy  
\_\_\_\_\_

██████████  
Northstone (N.I.) Limited  
7 Creagh Road  
Toomebridge  
BT41 3SD

Telephone: 02890 544582  
Facsimile: 02890 544520  
Email: ██████████@doeni.gov.uk

Our Ref  
Your Ref  
Date 19<sup>th</sup> June 2006

Dear ██████████

Enclosed are three new agreements for the Scott's sites. Please have these signed and returned with the original certificates. Once I receive these I will send you new certificates in Northstone's name. There will be no change to the audit date.

Also enclosed is the new certificate for Gregg's Pit.

Regards

██████████

7 Creagh Road, Toomebridge. BT41 3SD  
Telephone : 028 7965 0461 Fax: 028 7965 0238  
E-mail: [concretediv@northstone-ni.com](mailto:concretediv@northstone-ni.com)  
Web : [www.northstone-ni.com](http://www.northstone-ni.com)  
Registered Number N.I. 4078

OUR REF BS/LG  
YOUR REF n/a  
DATE 27 June 2006  
DELIVERY Post

[REDACTED]  
DOE (NI)  
Environmental Policy Division  
20-24 Donegall Street  
Belfast  
BT1 2GP

Dear [REDACTED]

Thank you so much for simplifying the form filling.

Please find enclosed signed Aggregate Levy Credit Agreements for our lough sand sites, plus the original certificates as requested.

Yours sincerely,

[REDACTED]  
[REDACTED]  
Technical Manager



COPY



Department of the  
**Environment**  
www.doeni.gov.uk

**Environment Policy Division**  
20-24 Donegall Street, Belfast, BT1 2GP  
Telephone: (028) 9025 1300  
Facsimile: (028) 9054 4520  
Email: [envpol@doeni.gov.uk](mailto:envpol@doeni.gov.uk)

12<sup>th</sup> April 2006

FAO [REDACTED]  
Northstone (NI) limited – Concrete Division  
7 Creagh Road  
Toomebridge  
BT41 3SD

Dear [REDACTED]

**Re: ALCS Improvement Notices**

Thank you for your letter of 7<sup>th</sup> April following our meeting on 5<sup>th</sup> April. We found the meeting useful and hope it clarified the issues. We are keen to ensure all members of the Aggregates Levy Credit Scheme take on board the requirement to build in environmental improvements to their operations on an ongoing and incremental basis, as laid out in Improvement Notices.

While I appreciate your views on the necessity or otherwise for wheel washes and covers, nevertheless spillage on roads remains an issue. I will be interested to hear what other methods you propose to use. If these prove ineffective the issue of wheel washes and covers is likely to come up for discussion again.

Regarding the storage of gas oil at the Lough shore, I would prefer this not to be the case but I appreciate the practical need for it being there. I would, however, stress it is critical that this particular facility must be of the highest standard in terms of bund, signage, other safety mechanisms etc. in order to minimise the real potential for a pollution incident. This issue will receive particular scrutiny at the next review or site visit, if this occurs earlier.

I will look forward to the next audit providing clear evidence that, environmentally, things have moved forward.

Yours sincerely

[REDACTED]  
[REDACTED]

7 Creagh Road, Toomebridge. BT41 3SD  
Telephone : 028 7965 0461 Fax: 028 7965 0238  
E-mail: [concretediv@northstone-ni.com](mailto:concretediv@northstone-ni.com)  
Web : [www.northstone-ni.com](http://www.northstone-ni.com)  
Registered Number N.I. 4078

OUR REF BS/MB/CD0909  
YOUR REF n/a  
DATE 7 April 2006  
DELIVERY Post

██████████  
Environmental Policy Division  
20-24 Donegal Street  
Belfast  
BT1 2GP

Dear ██████████

**RE: A.L.C.S. IMPROVEMENT NOTICES**

May I take this opportunity to thank both you and your colleague ██████████ for taking the time to come to our offices on Wednesday 5<sup>th</sup> April to discuss our concerns regarding the above improvement notices.

We agree with you that the main environmental issues on our lough sites is the handling and storage of oils and chemicals and are happy to set the suggested improvements regarding this as part of our objectives and targets for the incoming year.

We will take on board all other issues in the notices as part of our continuous improvement program with the exception of the issues listed below which we discussed at our meeting.

Reference 1 – DUST (D8, T<sub>2</sub>, T<sub>3</sub>) We understand the objective to reduce the incidence of spillage of sand and dust on the roads, but remain unconvinced that wheel washes and covers are necessary to achieve improvement on this issue. We will consider other methods.

Reference 2 – OIL/CHEMICAL (OCS3) As explained at our meeting, it is not practical for us to store gas oil away from the lough edge as we need to re-fuel sand barges. As explained we have already reduced our storage capacity on the lough edge from 28,000 litres to 2,500 litres and are well aware that we must take every reasonable precaution in delivery, handling and re-fuelling of gas oil.

As requested, listed below are the aggregate sites owned by Northstone (NI) Limited, Concrete Division.

Cont.....



**NIFRS**



(Please note there is also a Northstone Quarry Division which is a sister company.)

- (a) Hutchinsons Site ✓ - Scott  
51 Creagh Road  
Toomebridge BT41 3SD
- (b) Ballyginniff Site ✓ - Scott  
Loughview Road  
Crumlin BT29 4EE
- (c) Sandy Bay Site ✓ - Scott  
19 Shore Road  
Upper Ballinderry BT28 2LF
- (d) Gregg's Pit - Gregg  
Ballybriest Road  
Draperstown BT80 9TZ

We trust the above is to your satisfaction and if you require any further information please do not hesitate to contact the writer.

Yours sincerely,

[Redacted Signature]

[Redacted Name]  
Environmental Manager



**NIFRS**





Department of the  
**Environment**  
www.doeni.gov.uk

**Environmental Policy Group**

20-21 Donegall Street  
Belfast  
BT1 2GP

Scott (Toomebridge) Ltd  
FAO [REDACTED]

[by email]

Telephone: 02890 544514  
Facsimile: 02890 544520  
Email: [REDACTED]@doeni.gov.uk

Our Ref  
Your Ref  
Date 28 September 2004

cc [REDACTED]

Dear [REDACTED]

**AGGREGATES LEVY CREDIT SCHEME**

I refer to the issue of the admission of the sites owned by Scott (Toomebridge) Ltd, at Sandybay, Shore Road, Upper Ballinderry, and Hutchinson's, Creagh Road, Toomebridge, to the Aggregates Levy Credit Scheme. Following consideration of the planning circumstances at these specific sites, the Department has determined that both sites can be admitted to the Scheme. You should note that admission to the Scheme will not affect any obligations the sites may have in relation to current or future planning legislation.

Yours sincerely,

[REDACTED]

[REDACTED]

[REDACTED]

---

From: [REDACTED]  
Sent: 16 August 2004 09:08  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: RE: Aggregates Levy

[REDACTED]

Thank you for this. I have discussed this issue with Mr Dillon and he has asked if you would clarify two further points for us, viz

- to what extent does a development dating from pre-1972 have 'deemed planning permission', or does it continue to be classified as 'unlawful'?
- you refer in your e-mail to permission being granted to the Ballyginniff site via the Ministry of Development pre- the 1972 Order. What was the process then in relation to a site operating without planning permission, or was planning permission not needed?

Regards,

[REDACTED]

-----Original Message-----

From: [REDACTED]  
Sent: 13 August 2004 14:29  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: RE: Aggregates Levy

[REDACTED]

Further to your email and to our subsequent telephone conversation I can now respond to your queries.

Having met and spoken to [REDACTED] of Scotts Ltd he is claiming that their sites have been operating prior to the introduction of the Planning (NI) Order 1972.

The Department (Planning Service) can issue an enforcement notice only in respect of breaches of planning control which have occurred after 25 August 1974. This does not mean that any development which was carried out before that date is lawful, but rather that it is immune from enforcement action. (see Annex 1 Planning Policy Statement 9)

Even when a breach of planning control has taken place after the 25 August 1974, the Department may be prevented from taking enforcement action by the operation of what is known as the 'four year rule'. Art 68(4) of the Planning (NI) Order 1991 provides that where an enforcement notice relates to one of the four types of breach of planning control specified in the subsection, the notice may be issued only within a period of four years from the date of the breach [Art 68 (4) (ii)]

In cases where the four year rule applies the effect of failure to issue an enforcement notice within that period is the same as where the unlawful development took place before 26 August 1974 i.e the development is immune from enforcement but remains unlawful.

With regard to Scotts Ltd, their site at Ballyginniff appears to have permission which was granted via the Ministry of Development prior to the 1972 Order. The Department has no records of planning permission being granted on sites at Hutchinson or Sandy Bay.

The Department is of the opinion that Scotts Ltd sites are immune from enforcement. [REDACTED] (of

Scotts) has been advised that retrospective planning applications can be made to this office and that this would appear to be their best course of action re: Aggregates Levy.

I hope this clarifies matters for you. Should you wish to discuss this matter further please do not hesitate to contact me.

Regards

028 90 252911

-----Original Message-----

From: [REDACTED]  
Sent: 13 August 2004 13:09  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: FW: Aggregates Levy

Thank you for your response to [REDACTED] e-mail.

You have advised [REDACTED] that Planning Service would take no action against Scotts Ltd in respect of the sites for which Scotts Ltd has no planning permission if Scotts Ltd can prove it has been operating the sites for more than four years.

Section 9 of Planning Policy Statement 1, 'Enforcement of planning control over mineral working', says that 'failure to comply with any condition or limitation on a planning permission which relates to the carrying out of mining operations only becomes immune from enforcement action 4 years after the date on which the breach first came to the notice of the Department'.

Section 9 would appear to apply only where a planning permission already exists.

On the basis of your statement that Scott's Ltd does not hold planning permission in respect of particular sites, we will have no option but to refuse it entry to the scheme in respect of those sites, irrespective of how good its environmental controls are, unless we are provided with clear evidence of why that permission is not needed. I should be grateful therefore if you would clarify the following points for me:

- the legislative or policy basis for the four year period you referred to in your e-mail
- why such unauthorised works are not required by Planning Service to apply for retrospective planning permission, as outlined in sections 4.0 and 5.0 of Planning Policy Statement 1, 'Where acceptable but unauthorised development has been carried out' and 'Where unauthorised development can be made acceptable through the imposition of conditions'.

As you know, a prerequisite for entry to the Aggregates Levy Credit Scheme (ALCS) is compliance with the NI legislative framework as it applies to Planning, Water Discharge and IPPC. I appreciate the extensive work which you and your colleagues have carried out in helping us to verify compliance, and also that long-established unauthorised mineral workings such as this one can pose particular enforcement problems. Nonetheless, it is important that my team can stand over each and every decision it makes in relation to whether a particular operator is admitted to the ALCS, and given the importance of this issue, which is likely to arise in relation to other sites, I should be obliged if you would provide a written response to my queries.

Regards,

[REDACTED]  
[REDACTED]  
**Aggregates Levy and Environmental Taxes Policy**  
**Environmental Policy Group**  
**Telephone: (028) 905 44514**  
20-24 Donegall Street

-----Original Message-----

From: [REDACTED] (EPD)  
Sent: 13 August 2004 10:07  
To: [REDACTED]  
Subject: FW: Aggregates Levy

-----Original Message-----

**From:** [REDACTED]  
**Sent:** 13 August 2004 09:51  
**To:** [REDACTED]  
**Subject:** RE: Aggregates Levy

[REDACTED]

Following my meeting with [REDACTED] it would appear that Scotts Ltd have no planning permissions to process aggregate at Hutchinsons and Sandy Bay.

There are records of permission granted under the Planning (General Interim Development) Order (NI) 1944 by for Ballyginniff site (AN/1053).

Planning Service does not have any records prior to the 1972 Planning Order or post 1972 order in relation to Scotts Sites at Hutchinson or Sandy Bay. Planning Service would not take any action if Scotts can prove that they have been operating these sites for more than 4 years.

The issue in relation to the Aggregates Levy is one for your office to address.

If you have any further queries please do not hesitate to contact me.

Regards

[REDACTED]

-----Original Message-----

**From:** [REDACTED]  
**Sent:** 13 August 2004 08:59  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Aggregates Levy

[REDACTED]

I have been contacted by [REDACTED] of Scotts Toomebridge and he states that following your discussions yesterday that you have no problem with them as regards planning and would not intend to pursue any action.

He states that they have grandfather rights as they have been in operation for many years.

Does this mean that I can mark his application to enter into the aggregates levy credit agreement in order as planning permission is held for both Hutchinsons and Sandy Bay sites?

Thank you for your help.

[REDACTED]

**Aggregates Levy and  
Environmental Taxes Policy  
Phone 028 90 544526  
Fax 028 90 544520**

[REDACTED]

---

From: [REDACTED]  
Sent: 13 August 2004 15:04  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: FW: Aggregates Levy

[REDACTED]

To see.

I wasn't asking about breaches or enforcement (can't have either where there is no planning control to breach), so the four year rule is a red herring.

None of which matters really, except that I wouldn't like to have it said publicly that the Department considers a site 'immune from enforcement'. Albeit that Planning Service has no powers to require Scotts Ltd to obtain planning permission (which presumably is why [REDACTED] has been insisting to [REDACTED] that Planning Service says he doesn't need planning permission), Scotts Ltd is still at liberty to chose whether it wishes to apply for retrospective planning permission (at a grand total of £250 plus the cost of drawings per site) or stay out of the scheme.

Regards,

[REDACTED]

-----Original Message-----

From: [REDACTED]  
Sent: 13 August 2004 14:29  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: RE: Aggregates Levy

[REDACTED]

Further to your email and to our subsequent telephone conversation I can now respond to your queries.

Having met and spoken to [REDACTED] of Scotts Ltd he is claiming that their sites have been operating prior to the introduction of the Planning (NI) Order 1972.

The Department (Planning Service) can issue an enforcement notice only in respect of breaches of planning control which have occurred after 25 August 1974. This does not mean that any development which was carried out before that date is lawful, but rather that it is immune from enforcement action. (see Annex 1 Planning Policy Statement 9)

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In cases where the four year rule applies the effect of failure to issue an enforcement notice within that period is the same as where the unlawful development took place before 26 August 1974 i.e the development is immune from enforcement but remains unlawful.

With regard to Scotts Ltd, their site at Ballyginniff appears to have permission which was granted via the Ministry of Development prior to the 1972 Order. The Department has no records of planning permission being granted on sites at Hutchinson or Sandy Bay.

The Department is of the opinion that Scotts Ltd sites are immune from enforcement. [REDACTED] (of Scotts) has been advised that retrospective planning applications can be made to this office and that this would appear

to be their best course of action re: Aggregates Levy.

If this clarifies matters for you. Should you wish to discuss this matter further please do not hesitate to contact me.

Regards

028 90 252911

-----Original Message-----

From: [REDACTED]  
Sent: 13 August 2004 13:09  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: FW: Aggregates Levy

Thank you for your response to [REDACTED] e-mail.

You have advised [REDACTED] that Planning Service would take no action against Scotts Ltd in respect of the sites for which Scotts Ltd has no planning permission if Scotts Ltd can prove it has been operating the sites for more than four years.

Section 9 of Planning Policy Statement 1, 'Enforcement of planning control over mineral working', says that 'failure to comply with any condition or limitation on a planning permission which relates to the carrying out of mining operations only becomes immune from enforcement action 4 years after the date on which the breach first came to the notice of the Department'.

Section 9 would appear to apply only where a planning permission already exists.

On the basis of your statement that Scott's Ltd does not hold planning permission in respect of particular sites, we will have no option but to refuse it entry to the scheme in respect of those sites, irrespective of how good its environmental controls are, unless we are provided with clear evidence of why that permission is not needed. I should be grateful therefore if you would clarify the following points for me:

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As you know, a prerequisite for entry to the Aggregates Levy Credit Scheme (ALCS) is compliance with the NI legislative framework as it applies to Planning, Water Discharge and IPPC. I appreciate the extensive work which you and your colleagues have carried out in helping us to verify compliance, and also that long-established unauthorised mineral workings such as this one can pose particular enforcement problems. Nonetheless, it is important that my team can stand over each and every decision it makes in relation to whether a particular operator is admitted to the ALCS, and given the importance of this issue, which is likely to arise in relation to other sites, I should be obliged if you would provide a written response to my queries.

Regards,

[REDACTED]  
[REDACTED]  
**Aggregates Levy and Environmental Taxes Policy**  
Environmental Policy Group  
Telephone: (028) 905 44514  
20-24 Donegall Street

-----Original Message-----

From: [REDACTED]  
Sent: 13 August 2004 10:07  
To: [REDACTED]  
Subject: FW: Aggregates Levy

-----Original Message-----

**From:** [REDACTED]  
**Sent:** 13 August 2004 09:51  
**To:** [REDACTED]  
**Subject:** RE: Aggregates Levy

[REDACTED]

Following my meeting with [REDACTED] it would appear that Scotts Ltd have no planning permissions to process aggregate at Hutchinsons and Sandy Bay.

There are records of permission granted under the Planning (General Interim Development) Order (NI) 1944 by for Ballyginniff site (AN/1053).

Planning Service does not have any records prior to the 1972 Planning Order or post 1972 order in relation to Scotts Sites at Hutchinson or Sandy Bay. Planning Service would not take any action if Scotts can prove that they have been operating these sites for more than 4 years.

The issue in relation to the Aggregates Levy is one for your office to address.

If you have any further queries please do not hesitate to contact me.

Regards

-----Original Message-----

**From:** [REDACTED]  
**Sent:** 13 August 2004 08:59  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Aggregates Levy

[REDACTED]

I have been contacted by [REDACTED] of Scotts Toomebridge and he states that following your discussions yesterday that you have no problem with them as regards planning and would not intend to pursue any action.

He states that they have grandfather rights as they have been in operation for many years.

Does this mean that I can mark his application to enter into the aggregates levy credit agreement in order as planning permission is held for both Hutchinsons and Sandy Bay sites?

Thank you for your help.

[REDACTED]  
**Aggregates Levy and  
Environmental Taxes Policy  
Phone 028 90 544526  
Fax 028 90 544520**

[REDACTED]

---

From: [REDACTED]  
Sent: 13 August 2004 14:30  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: RE: Aggregates Levy

[REDACTED]

Quite right. Although I understand that unapproved development can be deemed to have been approved if unchallenged over a period of time, it is proper that, when examples come to light, they are regularised in some way so that the operators can demonstrate that they are in compliance.

Pl. keep me informed.

[REDACTED]

—Original Message—  
From: [REDACTED]  
Sent: 13 August 2004 13:09  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: FW: Aggregates Levy

[REDACTED]

Thank you for your response to [REDACTED] e-mail.

You have advised [REDACTED] that Planning Service would take no action against Scotts Ltd in respect of the sites for which Scotts Ltd has no planning permission if Scotts Ltd can prove it has been operating the sites for more than four years.

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Regards,

[REDACTED]

[REDACTED]

Aggregates Levy and Environmental Taxes Policy

**Environmental Policy Group**  
**Telephone: (028) 905 44514**  
20-24 Donegall Street

-----Original Message-----

**From:** [REDACTED]  
**Sent:** 13 August 2004 10:07  
**To:** [REDACTED]  
**Subject:** FW: Aggregates Levy

-----Original Message-----

**From:** [REDACTED]  
**Sent:** 13 August 2004 09:51  
**To:** [REDACTED]  
**Subject:** RE: Aggregates Levy

[REDACTED]

Following my meeting with [REDACTED] it would appear that Scotts Ltd have no planning permissions to process aggregate at Hutchinsons and Sandy Bay.

There are records of permission granted under the Planning (General Interim Development) Order (NI) 1944 by for **Ballyginniff site (AN/1053)**.

Planning Service does not have any records prior to the 1972 Planning Order or post 1972 order in relation to Scotts Sites at Hutchinson or Sandy Bay. Planning Service would not take any action if Scotts can prove that they have been operating these sites for more than 4 years.

The issue in relation to the Aggregates Levy is one for your office to address.

If you have any further queries please do not hesitate to contact me.

Regards

-----Original Message-----

**From:** [REDACTED]  
**Sent:** 13 August 2004 08:59  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Aggregates Levy

[REDACTED]

I have been contacted by [REDACTED] of Scotts Toomebridge and he states that following your discussions yesterday that you have no problem with them as regards planning and would not intend to pursue any action.

He states that they have grandfather rights as they have been in operation for many years.

Does this mean that I can mark his application to enter into the aggregates levy credit agreement in order as planning permission is held for both Hutchinsons and Sandy Bay sites?

Thank you for your help.

[REDACTED]  
**Aggregates Levy and**  
**Environmental Taxes Policy**  
**Phone 028 90 544526**  
**Fax 028 90 544520**

[REDACTED]

---

**From:** [REDACTED]  
**Sent:** 13 August 2004 09:51  
**To:** [REDACTED]  
**Subject:** RE: Aggregates Levy

[REDACTED]

Following my meeting with [REDACTED], it would appear that Scotts Ltd have no planning permissions to process aggregate at Hutchinsons and Sandy Bay.

There are records of permission granted under the Planning (General Interim Development) Order (NI) 1944 by for Ballyginniff site (AN/1053).

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The issue in relation to the Aggregates Levy is one for your office to address.

If you have any further queries please do not hesitate to contact me.

Regards

[REDACTED]

-----Original Message-----

**From:** [REDACTED]  
**Sent:** 13 August 2004 08:59  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** Aggregates Levy

[REDACTED]

I have been contacted by [REDACTED] of Scotts Toomebridge and he states that following your discussions yesterday that you have no problem with them as regards planning and would not intend to pursue any action.

He states that they have grandfather rights as they have been in operation for many years.

Does this mean that I can mark his application to enter into the aggregates levy credit agreement in order as planning permission is held for both Hutchinsons and Sandy Bay sites?

Thank you for your help.

[REDACTED]

**Aggregates Levy and  
Environmental Taxes Policy  
Phone 028 90 544526  
Fax 028 90 544520**

[REDACTED]

---

**From:** [REDACTED]  
**Sent:** 26 July 2004 13:55  
**To:** [REDACTED]  
**Subject:** RE: Aggregates Levy

That letter appears to be fine  
My telephone number is 028 90 252 911  
Regards  
[REDACTED]

-----Original Message-----

**From:** [REDACTED]  
**Sent:** 26 July 2004 11:00  
**To:** [REDACTED]  
**Subject:** Aggregates Levy

[REDACTED]

Re Scotts Toomebribge.

Please find attached a draft letter regarding the planning permissions. Can you confirm that the references I have made regarding the permissions are correct and that it is in order to give your telephone number.

<< File: LETTER TO SCOTTS.doc >>

Thank you.

[REDACTED]

**Aggregates Levy and  
Environmental Taxes Policy  
Phone 028 90 544526  
Fax 028 90 544520**



Department of the  
**Environment**  
www.doeni.gov.uk

**Environmental Policy Group**

20-24 Donegall Street  
Belfast  
BT1 2GP

[REDACTED]  
Scott (Toomebridge) Ltd  
7 Creagh Road  
Toomebridge  
BT41 3SD

Telephone: 02890 544526  
Facsimile: 02890 544520  
Email: [REDACTED] gov.uk

Our Ref  
Your Ref  
Date 26<sup>th</sup> July 2004

Dear [REDACTED]

**RE: Applications to enter into the Aggregates Levy Credit Agreement.**

Following our telephone conversation regarding the planning permissions for Ballyginniff, Hutchinson, and Sandy Bay processing sites.

I have now been able to establish that planning permission is in order for Ballyginniff site and as a result am able to progress this application to enter into the scheme.

I am still unable to establish that permissions are in order for Hutchinson and Sandy Bay sites. Until I have confirmation from Minerals Unit of the Planning Service that permissions are held I cannot progress the applications for these two sites.

Can you please contact [REDACTED] Minerals Unit on 02890 52911 regarding the necessary action that should be taken to obtain planning permission for these sites.

Yours sincerely,

[REDACTED]

[REDACTED]

Fro...  
Sent: 11 August 2004 12:02  
To: [REDACTED]  
Subject: RE: Aggregates levy

[REDACTED]  
No applications as yet.

[REDACTED] our SPTO has a meeting with Scotts tomorrow(12th) when they will discuss an application. Normally it can take a while for an application to be prepared as a knowledgeable agent has to be found who can produce accurate drawings etc. in order that we can validate and start things moving. Will let you know when any arrive. I shall be on leave from 23 Aug-17 Sep. I will ask [REDACTED] if he will let you know during that period.  
[REDACTED]

-----Original Message-----

From: [REDACTED]  
Sent: 11 August 2004 10:07  
To: [REDACTED]  
Subject: Aggregates levy

[REDACTED]  
Can you please check if an application for planning has been received yet from the following operators:

Norman Emerson + Sons Ltd Washing Plant Shankley Tullyhogue Cookstown OSNI Ref. 283200 372500

Scotts (Toomebridge) Ltd Hutchinsons Site Creagh Road Toomebridge

Scotts (Toomebridge) Ltd Sandybay Site 19 Shore Road Upper Ballinderry Co Antrim

Thank you for your help.

[REDACTED]  
**Aggregates Levy and  
Environmental Taxes Policy**  
Phone 028 90 544526  
Fax 028 90 544520

[REDACTED]  
[REDACTED]  
From: [REDACTED]  
Sent: 16 July 2004 14:30  
To: [REDACTED]  
Subject: RE: Aggregates Levy

Sotts of Toombridge do hold a permission to process material at Ballyginniff, AN 1053, granted 20/05/69. Will try to work on your other queries later.

Yes did have a good break but it seems a long way away.  
[REDACTED]

-----Original Message-----

From: [REDACTED]  
Sent: 14 July 2004 11:17  
To: [REDACTED]  
Subject: Aggregates Levy

[REDACTED]  
Hope you enjoyed the few days off work. Attached are some more queries.

<< File: 14th July list for planning.doc >>

[REDACTED]  
**Aggregates Levy and  
Environmental Taxes Policy  
Phone 028 90 544526  
Fax 028 90 544520**

Ballyginniff had all consents.

From: [redacted]  
Sent: 07 July 2004 15:01  
To: [redacted]  
Subject: Aggregates Levy

[redacted]

Re operators extracting sand from Lough Neagh

I contacted [redacted] Scotts, Toomebridge regarding their planning permissions. He wants me to send him a letter detailing why planning needs to be applied for as they have been trading for over 4 years and details of fees etc for the retaining application I explained to him.

Before I draft the letter can I ask you to explain/confirm the following :

- 1 Does Users Rights have any legal standing for those who extract from the Lough?
- 2 What planning requirements are in relation to extraction as distinct from processing?
- 3 That Scotts have no planning permission for Ballyginniff, Sandy Bay and Hutchinson, Creagh Road and would therefore need to submit Retaining applications for each site. Processing these applications would take maximum 6 months.
- 4 Fees for this permission cost: £90.00 if there is plant on site but no storage sheds  
£100.00 if there is storage and the site does not exceed 40 sq. meters  
£180.00 if there is storage and the site is between 40 and 75 sq. meters  
For sites over 75 sq meters the fee is £180.00 for each 75sq meters with a

maximum charge of £8820

Thank you for your help.

[redacted]  
Aggregates Levy and  
Environmental Taxes Policy  
Phone 028 90 544526  
Fax 028 90 544520

T/C from [redacted] - EXTRACTOR from the Lough is unauthorised - [redacted] prefers to  
SPD accepted - .

Never been a court case to challenge this therefore it cannot be enforced.  
County Council certificates would suffice for Ballyginniff and Hutchinsons sites.  
Operator to be asked to supply these. Also to contact [redacted] re permission needed for  
Sandy Bay site.

Draft letter to be forwarded to [redacted] to check content prior to issuing to operator.

e-mail to [redacted] 14/7/2004. to check Planning approval for County Council for  
Hutchinsons site.

e-mail filed on Ballyginniff re planning

[REDACTED]

---

From: [REDACTED]  
Sent: 06 July 2004 08:06  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: RE: Scotts Toomebridge Ltd

[REDACTED]

Well done. As discussed yesterday, this issue is likely to arise again in relation to Lough Neagh. It would be useful if [REDACTED] could explain whether users' rights have any legal standing, and also what planning requirements are in relation to extraction as distinct from processing.

By the bye, if Scotts are complaining about having to apply for planning authorisation, at a price which isn't at all high in relation to the potential savings they will reap from the levy, we will have fun when we start setting targets.

[REDACTED]

-----Original Message-----

From: [REDACTED]  
Sent: 05 July 2004 16:38  
To: [REDACTED]  
Cc: [REDACTED]  
Subject: Scotts Toomebridge Ltd

[REDACTED]

Scotts of Toomebridge have 3 sites extracting sand from Lough Neagh. When [REDACTED] from this company originally contacted me regarding his applications I referred him to [REDACTED] in planning to discuss if permission was held. [REDACTED] had previously asked me to refer all who enquired about planning on the Lough to him.

[REDACTED] then sent [REDACTED] a letter listing the site permission numbers. [REDACTED] sent me a copy of his reply to [REDACTED]

This states that:-

***Planning Permission has never been granted by either Planning Service (post 1972) or the Council (pre 1972) to extract mineral from Lough Neagh. In relation to your companies processing sites at Ballyginniff, Sandy Bay and Hutchinson Creagh Road, none of these sites have ever obtained planning permission and the Department has only complete County Council approvals for one of the sites (Ballginniff).***

***The Department has no certificate for any County Council Permission at Hutchinsons site, however we do have a stamped approved Council Map/drawing.***

***There is no information contained within the Departments archives of any approvals on the site at Sandy Bay.***

When I received this I sent [REDACTED] an e-mail asking if the company had permission or not to process on land on any of the sites. He replied that there is no planning permission for Ballyginniff. The council approval was granted prior to the introduction of planning legislation. The above confirms none for the other sites.

I contacted [REDACTED] of Scotts and he was annoyed that instead of doing right by contacting planning he has got into bother with his boss for raising the question about planning. I told him that I would have had to do that anyway before a certificate could be issued. He felt that under users rights there was no need for any further contact with planning. I explained that until planning was either applied for or held that no reduction could be made on the levy. He asked if all sites on the lough were being treated this way and I explained that they were all being checked to ensure that permission is held or applied for. He asked who had applied and I explained that I could not give him this information due to Data Protection but assured him all were being treated the same. He felt that this planning issue is unfair and unnecessary. Scotts are a major company who always try to do things right and protect the environment. They have been operating for many years and have applied for other permissions. I explained that until the planning issue was sorted I could not process the applications any further.

As he did not want to contact planning again as he felt there was no need to, he did not want to annoy his boss any further and this matter (Lough sites) were surely sorted out at the start of the scheme I told him that I would and come back to him.

At this point I informed you of this matter.

I spoke to [REDACTED] on his return from lunch and he stated that the best thing to do is ask [REDACTED] to submit a retaining application for these sites. This would take 3 -4 months (at the longest 6 months) to process and would also allow me to process the application for the aggregates levy scheme.

Costs are:

£90 If there is plant on site but no storage sheds

£100 if there is storage and the site does not exceed 40 square meters

£180 if there is storage and the site is between 40 - 75 square meters

For sites over 75 Sq. Meters the fee is £180 for each 75 sq meters with a maximum charge of £8820

I contacted [REDACTED] again and he has asked me to write to him explaining the above application details. He would then pass it to his boss. He thanked me for the information.

I will send an e-mail to [REDACTED] and ask him to confirm the above information prior to writing to Scotts.

[REDACTED]  
**Aggregates Levy and  
Environmental Taxes Policy**  
**Phone 028 90 544526**  
**Fax 028 90 544520**

[REDACTED]

---

**From:** [REDACTED]  
**Sent:** 05 July 2004 11:55  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: Aggregates Levy

[REDACTED]

RE: planning approvals for sand sites

At present there is no planning permission for extraction on the bed of Lough Neagh. In relation to the site at Ballyginniff, which processes mineral extracted from the bed of the Lough, there is no planning permission for this activity. The Council approval was granted prior to the introduction of planning legislation.

In relation, to operators P & J Walls and Readymix, in order to establish whether they have permission i would need you to forward a site location map, planning reference number or OS grid references.

Should you require further assistance please do not hesitate to contact me.

Regards  
[REDACTED]

-----Original Message-----

**From:** [REDACTED]  
**Sent:** 28 June 2004 11:47  
**To:** [REDACTED]  
**Subject:** Aggregates Levy

[REDACTED]

Re: Planning approvals for Sand Sites

Thank you for the copy of the letter you sent to [REDACTED], Scott (Toomebridge) Ltd in reply to his enquiry about planning permission for three sites: Ballyginniff, Sandy Bay and Hutchinson. I understand that planning permission has never been granted to extract mineral from Lough Neagh but does the council approval for Ballyginniff mean that there is planning permission for this site? If the others do not hold permission to extract do they hold or have they applied for permission to process on land?

There are two other Operators, P & J Walls Airfield Road Toomebridge and Readymix (NI) Ltd Toomebridge Sand Depot who both extract from the lough. Do they hold or have they applied for permission to process on land?

If you need any further details please contact me.

Thank you for your help.

[REDACTED]  
**Aggregates Levy and  
Environmental Taxes Policy  
Phone 028 90 544526  
Fax 028 90 544520**

[REDACTED]

---

**From:** [REDACTED]  
**Sent:** 28 June 2004 11:47  
**To:** [REDACTED]  
**Subject:** Aggregates Levy

[REDACTED]

Re: Planning approvals for Sand Sites

Thank you for the copy of the letter you sent to [REDACTED] Scott (Toomebridge) Ltd in reply to his enquiry about planning permission for three sites: Ballyginniff, Sandy Bay and Hutchinson. I understand that planning permission has never been granted to extract mineral from Lough Neagh but does the council approval for Ballyginniff mean that there is planning permission for this site? If the others do not hold permission to extract do they hold or have they applied for permission to process on land?

There are two other Operators, P & J Walls Airfield Road Toomebridge and Readymix (NI) Ltd Toomebridge Sand Depot who both extract from the lough. Do they hold or have they applied for permission to process on land?

If you need any further details please contact me.

Thank you for your help.

[REDACTED]  
**Aggregates Levy and  
Environmental Taxes Policy  
Phone 028 90 544526  
Fax 028 90 544520**

Date: 3 June 2004

Our Ref:

Your Ref: BS/AMK/GMcC2105



**Headquarters: Sub-Office**

[REDACTED]  
Scott (Toomebridge) Ltd  
7 Creagh Road  
Toomebridge  
BT41 3SD

Special Studies Unit  
2nd Floor  
Bedford House  
16-22 Bedford Street  
Belfast  
BT2 7FD

Dear [REDACTED]

**RE: Planning approvals for Sand Sites**

In response to your letter dated 1 May 2004, which this office received on 25 May 2004, the Department has the following comments to make:

Planning Permission has never been granted by either Planning Service (post 1972) or the Council (pre 1972) to extract mineral from the Lough (Neagh).

In relation to your companies processing sites at Ballyginniff, Sandy Bay and Hutchinson Creagh Road, none of these sites have ever obtained planning permission and the Department has only complete County Council approvals for one of the sites (Ballyginniff).

The Department has no certificate for any County Council permission at Hutchinsons site, however we do have an stamped approved Council map/drawing.

There is no information contained within the Departments archives of any approvals on the site at Sandy Bay.

Should you wish to obtain a copy of the complete County Council approval for Ballyginniff, please forward a cheque for £5 made payable to the Department of the Environment.

If you have any further queries please do not hesitate to contact us.

Your sincerely

[REDACTED]  
[REDACTED]  
Minerals Unit

CC [REDACTED] Environmental Policy Division.  
Aggregates Levy and Environmental Taxes Policy

Head Office:

7 Creagh Road, Toomebridge. BT41 3SD

Telephone: 028 7965 0461 Fax: 028 7965 0238

E-mail: sales@scottrooftiles.com

Web: <http://www.scottrooftiles.co.uk>

Registered Number N.I. 4172

OUT REF: BS/AMK/GMcC2105

IN REF:

DATE: 1 May, 2004

METHOD: Post

Mr [REDACTED]  
Mineral Unit  
Bedford House  
Bedford Street  
Belfast  
BT2 7FD



Dear [REDACTED]

**RE: PLANNING PERMISSION FOR SAND SITES**

Further to our telephone conversation today regarding planning consent for sites (listed below) could you please check if there are any relevant planning consents lodged with county councils or any records relating to operations on these sites prior to implementation of the 1972 Planning Order.

To the best of my knowledge all three sites have been operational from the early-mid 1960's.

- |                                      |                                     |
|--------------------------------------|-------------------------------------|
| 1. Hutchinsons Site - <i>PA10407</i> | 2. Ballyginniff Site <i>PA10407</i> |
| Creagh Road                          | Loughview Road                      |
| Toomebridge                          | Crumlin                             |
| Co. Antrim                           | Co. Antrim                          |
| BT41 3SD                             | BT29 4EE                            |
| 3. Sandy Bay Site - <i>PA10407</i>   |                                     |
| 19 Shore Road                        |                                     |
| Upper Ballinderry                    |                                     |
| Co. Antrim                           |                                     |
| BT28 2LF                             |                                     |

I enclose as requested copies of maps in our possession locating each site.



If you require any further information, contact the writer at the above address or by phone:

Tel: [REDACTED]

Mobile: [REDACTED]

Email: [REDACTED]

Yours sincerely

[REDACTED]

[REDACTED]

TECHNICAL MANAGER

No court case to challenge  
rights.

Cannot be enforced

Cannot monitor impact of  
extraction.

Accepted <sup>minutes</sup> that these operators  
extract. (Accepted that the  
unauthorised.)

[REDACTED]

---

From: [REDACTED]  
Sent: 11 August 2004 12:02  
To: [REDACTED]  
Subject: RE: Aggregates levy

[REDACTED]  
No applications as yet.

[REDACTED] our SPTO has a meeting with Scotts tomorrow(12th) when they will discuss an application. Normally it can take a while for an application to be prepared as a knowledgeable agent has to be found who can produce accurate drawings etc. in order that we can validate and start things moving. Will let you know when any arrive. I shall be on leave from 23 Aug-17 Sep. I will ask [REDACTED] if he will let you know during that period.

[REDACTED]

-----Original Message-----

From: [REDACTED]  
Sent: 11 August 2004 10:07  
To: [REDACTED]  
Subject: Aggregates levy

[REDACTED]

Can you please check if an application for planning has been received yet from the following operators:

Norman Emerson + Sons Ltd Washing Plant Shankley Tullyhogue Cookstown OSNI Ref. 283200 372500

Scotts (Toomebridge) Ltd Hutchinsons Site Creagh Road Toomebridge

Scotts (Toomebridge) Ltd Sandybay Site 19 Shore Road Upper Ballinderry Co Antrim

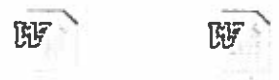
Thank you for your help.

[REDACTED]

**Aggregates Levy and  
Environmental Taxes Policy**  
Phone 028 90 544526  
Fax 028 90 544520

[Redacted]

From: [Redacted]  
Sent: 29 July 2004 09:07  
To: [Redacted]  
Cc: [Redacted]  
Subject: RE: Aggregates Levy



epd quarries.doc List of outstanding  
Water Quer...

Hi [Redacted]

Attached is some data in relation to enquiries, and a draft of the consentable activities for you to consider

[Redacted]

—Original Message—  
From: [Redacted]  
Sent: 26 July 2004 16:35  
To: [Redacted]  
Subject: Aggregates Levy

[Redacted]

Attached are a few more queries regarding Water consent:

<< File: 26th July 2004 Water Queries.doc >>  
Thank you for your help.

[Redacted]  
**Aggregates Levy and  
Environmental Taxes Policy**  
Phone 028 90 544526  
Fax 028 90 544520

| Consent Number             | Operator                    | Site address                                               | Query                                                        | Reply                              |
|----------------------------|-----------------------------|------------------------------------------------------------|--------------------------------------------------------------|------------------------------------|
| 77/01                      | Campsie Sand & Gravel Ltd   | Mobhoy Road<br>Campsie<br>Londonderry                      | Cannot find this number on my list. Is consent held?         | Should be TC 94/04                 |
| PC/156/03                  | Heron Bros. Ltd             | Cullion Road<br>Lough Fea<br>Draperstown                   | Cannot find number on list supplied. Is consent held?        | Consent being processed            |
| 146/96 file no.<br>TC56/95 | Patrick Megoran             | 94 – 96<br>Hillsborough<br>Road<br>Carryduff<br>BT8 8HT    | Cannot find this number on any of the lists supplied by WMTU | Under investigation                |
| 1818/90<br>1285/00         | Patrick Bradley Limited     | Craigall Quarry<br>Kilrea<br>Co. Derry                     | Cannot find this number on any of the lists supplied by WMTU | Should be TC 23/00                 |
| 313/95                     | Dromalane Quarries Ltd      | 25 Fathom Line<br>Newry                                    | Cannot find this number on any of the lists supplied by WMTU | Awaiting inspection by field staff |
| N/K                        | Scott (Toomebridge) Limited | Ballyginniff Site<br>Loughview Road<br>Crumlin<br>BT29 4EE | States applied for consent on 8/3/2000. Is this correct?     | Consent being processed            |
| N/K                        | Scott (Toomebridge) Limited | Sandybeg Site<br>19 Shore Road<br>Upper Ballinderry        | States applied for consent on 8/3/2000. Is this correct?     | Consent being processed            |
| N/K                        | Michael McAleer             | 204 Camlough<br>Road<br>Pomeroy                            | States he has consent but does not know the number.          | Awaiting inspection by field staff |

[REDACTED]

---

From: [REDACTED] {NI, Excise & Int Trade, Excise Assurance}  
[REDACTED]@hmce.gsi.gov.uk  
Sent: 26 July 2004 10:25  
To: [REDACTED]  
Subject: RE: Aggregates Levy

[REDACTED]

Yes, the number was issued to Farrans Ltd who also own/control Scotts and Maxwells in the same way that Tarmac or Readymix operate, using a composite return to account for the levy. Unfortunately, I have minimal contact with any of the Farrans group as this is under our Large Business Group control and they rarely refer to me!

[REDACTED]

-----Original Message-----  
From: [REDACTED] (EPD)  
[mailto:[REDACTED]@doeni.gsi.gov.uk]  
Sent: 26 July 2004 10:17  
To: [REDACTED] (E-mail)  
Subject: Aggregates Levy

[REDACTED]

Re Aggregates Levy Number 10581 0000

Is it in order that Scotts and R.J.Maxwell use this number. I note that on your list the number refers to Farrans Ltd.

Thank you for your help.

[REDACTED]

Aggregates Levy and  
Environmental Taxes Policy  
Phone 028 90 544526  
Fax 028 90 544520

5<sup>TH</sup> LIST FOR IPC

| Company Name                | Address of site                                                 | Contact Name | Telephone number                   | Type of mineral         | Reply |
|-----------------------------|-----------------------------------------------------------------|--------------|------------------------------------|-------------------------|-------|
| Campsie Sand and Gravel Ltd | Mobuoy Road<br>Campsie<br>Londonderry                           | [REDACTED]   | [REDACTED]<br>mobile<br>[REDACTED] | Sand / Gravel           |       |
| Leestone Sand & Gravel      | 9 Leestone Road<br>Kilkeel                                      | [REDACTED]   | [REDACTED]<br>mobile<br>[REDACTED] | Sand / Gravel           |       |
| W&J Chambers                | 91 Glenshane Road<br>Londonderry                                | [REDACTED]   | [REDACTED]<br>mobile<br>[REDACTED] | Sand /gravel /limestone |       |
| Heron Bros Ltd              | Cullion Road<br>Lough Fea<br>Draperstown                        | [REDACTED]   | [REDACTED]                         | Sand/Clay               |       |
| Scott (Toomebridge) Ltd     | Hutchinsons Site<br>Creagh Road<br>Toomebridge<br>BT41 3SD      | [REDACTED]   | [REDACTED]<br>Mobile<br>[REDACTED] | Sand / Gravel           |       |
| Scott (Toomebridge) Ltd     | Ballyginniff Site<br>Loughview Road<br>Crumlin<br>BT29 4EE      | [REDACTED]   | [REDACTED]<br>Mobile<br>[REDACTED] | Sand / Gravel           |       |
| Scott (Toomebridge) Ltd     | Sandybay Site<br>19 Shore Road<br>Upper Ballinderry<br>BT28 2LF | [REDACTED]   | [REDACTED]<br>Mobile<br>[REDACTED] | Sand / Gravel           |       |

[REDACTED]

---

**From:** [REDACTED]  
**Sent:** 07 July 2004 14:53  
**To:** [REDACTED]  
**Subject:** RE: Aggregates Levy

[REDACTED]

The list has been checked out - all OK.

[REDACTED]

-----Original Message-----

**From:** [REDACTED]  
**Sent:** 25 June 2004 12:14  
**To:** [REDACTED]  
**Subject:** Aggregates Levy

[REDACTED]

Attached is another list of queries. Applications have decreased greatly therefore until we send out the reminders to those who have not replied queries should be few.

<< File: 5TH LIST FOR IPC.doc >>  
Thank you again for your help.

[REDACTED]

**Aggregates Levy and  
Environmental Taxes Policy  
Phone 028 90 544526  
Fax 028 90 544520**

To:

From:  
NEW FILE REQUEST

I request that a new file be opened as follows:

FILE SERIES:  FILE MARKING:

FILE TITLE:

PREVIOUS FILE:

Please indicate if this file should be opened as a volume of an existing file:  
Yes  No

The file should initially be marked to:

Signed:  Date:

For General Office use only

FILE NO:  DATE OPENED:

File passed to

Signed:

# Environmental Audit

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                              |                                              |                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name of Site</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sandy Bay Plant                                                                                                              | <b>Date of Audit</b>                         | 22 <sup>nd</sup> , 23 <sup>rd</sup> & 24 <sup>th</sup> February 2010                                                                                                                  |
| <b>Name of Operating Company</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Northstone (NI) Ltd.                                                                                                         | <b>Names of Auditees</b>                     | <div style="background-color: black; color: black;">[Redacted]</div> Environmental Manager<br><div style="background-color: black; color: black;">[Redacted]</div> Production Manager |
| <b>Address of Site</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sandybay Site, 19 Shore Road, Upper Ballinderry, Co. Antrim, BT28 2LF                                                        |                                              |                                                                                                                                                                                       |
| <b>Description of Site Operations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sand Plant                                                                                                                   |                                              |                                                                                                                                                                                       |
| <p>The site is operated for the landing of sand, dredged by sand barge boats from Lough Neagh, and processed with water by classification plant to produce sand products. The operator does not hold a planning permission for the operations. The site operates under 'Established User Rights Prior to Introduction of 1972 Planning Order' as specified in the application form. Northstone (NI) Ltd operates an Environmental Management System which is certified to BS EN ISO 14001 Certificate No. EMS 55117 with the scope described as 'Production of sand, concrete tiles, pipes and blocks'. Dredging and production temporarily suspended at time of audit since 1 January 2010 due to low demand.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                              |                                              |                                                                                                                                                                                       |
| <b>Weather</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mainly sunny with cloudy periods. Moderate cold winds.                                                                       | <b>ALCA ref. no.</b>                         | 137                                                                                                                                                                                   |
| <b>Date of Report</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7 <sup>th</sup> March 2010                                                                                                   | <b>Output Tonnes per annum (Approximate)</b> | Commercially confidential                                                                                                                                                             |
| <b>Name of Auditor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <div style="background-color: black; color: black;">[Redacted]</div> MLI AIEMA Member of IEMA at Environmental Auditor Level | <b>Geology</b>                               | Lough Neagh Dredged Sand                                                                                                                                                              |
| <p>The purpose of this environmental audit is to assess the level of compliance with the Aggregates Levy Credit Scheme (ALCS) Code of Practice. This report aims to record the basic environmental performance on site to enable identification of any requirements for improvement action to correct shortfalls in compliance with the Code of Practice.</p> <p>This audit has been carried out by an accredited environmental auditor. This audit follows the Aggregates Levy Audit Protocol addressing all the areas of environmental risk pertaining to the site. Since the audit protocol is generic some elements of the code are not applicable.</p> <p>The assessment of legal compliance required by the code has been addressed by the inspection of the relevant permits/licensing paperwork held by the operator at the site. This audit has relied on the site operator to advise of any relevant regulatory non-compliance or incidents that would require notification to any regulatory authority.</p> <p>The audit assessment is based on selective sampling directed by the audit protocol and therefore environmental impacts may exist which have not been identified.</p> |                                                                                                                              |                                              |                                                                                                                                                                                       |

Score 2 - 0  
 Score 4  
 Score 5  
 Score n/a  
 Letter issued 10.8.2010  
 30  
 9 25  
 copy on file



## Environmental Audit

### Site Summary

- a. **Products Produced:**  
Washed sands.
- b. **Staff Numbers:**  
3 site based employees and 2 boat based.
- c. **Equipment and vehicles on site:**  
Aggregates are processed using a sand washing and classification plant. Mobile plant normally used on site includes:  
1 no. Fiat Hitachi Excavator and 1 no. Volvo 110E Loading Shovel. The site is normally supplied by 2 diesel engine sand barge boats, the William James (1968) and the Rams Island (1972).
- d. **General observations of surrounding area e.g. Special Area of Conservation:**  
Lough Neagh Area of Special Scientific Interest (ASSI), RAMSAR and Special Protection Area (SPA) designations relate to areas along the site boundary.
- e. **Proximity of waterways close to the site:**  
The site is located adjacent to Lough Neagh
- f. **Provision of Septic Tanks or Chemical toilet:**  
Foul sewerage provision is to septic tank.

### Improvement Notices

Specific information in relation to the Improvement Notice is included in the appropriate 'Audit Comments' box. Some required improvements have been audited with consideration given to the DOE NI's revised Improvement Notice following the verification audit at this site. Not all improvements implemented have resulted in an increased audit score, notably where the improvement does not take the operating standard beyond meeting 'the basic tenet of the code' and where further actions in the future would reflect best practices within the industry.

# Environmental Audit

## Summary of Audit Scores

| 6.1 Air Quality                     |    | 2008 |    | 2010 |    | 6.6 Dust                     |    | 2008 |    | 2010 |    | 6.9 Landscape & Visual     |    | 2008 |    | 2010 |                                         | 6.11 Oil / Chemical cont. |    | 2008 |    | 2010                         |   |   |   |  |  |  |
|-------------------------------------|----|------|----|------|----|------------------------------|----|------|----|------|----|----------------------------|----|------|----|------|-----------------------------------------|---------------------------|----|------|----|------------------------------|---|---|---|--|--|--|
| AQ1                                 | 5  | 5    | 5  | 5    | 5  | D1                           | NA | NA   | NA | NA   | NA | LV1                        | 4  | NA   | NA | NA   | OGS6                                    | 3                         | 4  | 4    | 4  | T1                           | 3 | 3 | 3 |  |  |  |
| AQ2                                 | 5  | 5    | 5  | 5    | 5  | D2                           | 5  | 5    | 5  | 5    | 5  | LV2                        | 3  | 3    | 3  | 3    | OCS7                                    | 3                         | 3  | 3    | 3  | T2                           | 3 | 3 | 3 |  |  |  |
| AQ3                                 | 5  | 5    | 5  | 5    | 5  | D3                           | NA | NA   | NA | NA   | NA | LV3                        | NA | NA   | NA | NA   | OCS8                                    | 5                         | 5  | 5    | 5  | T3                           | 3 | 3 | 3 |  |  |  |
| AQ4                                 | 4  | 5    | 5  | 5    | 5  | D4                           | NA | NA   | NA | NA   | NA | LV4                        | 3  | 3    | 3  | 3    | OCS9                                    | 4                         | 4  | 4    | 4  | T4                           | 5 | 5 | 5 |  |  |  |
| <b>6.2 Archeology &amp; Geology</b> |    |      |    |      |    | D5                           | NA | NA   | NA | NA   | NA | LV5                        | 3  | 3    | 3  | 3    | <b>6.12 Restoration &amp; Aftercare</b> |                           |    |      |    |                              |   |   |   |  |  |  |
| AG1                                 | NA | NA   | NA | NA   | NA | D6                           | 4  | 4    | 4  | 4    | 4  | <b>6.10 Noise</b>          |    | R1   | 3  | NA   | NA                                      | NA                        | NA | NA   | NA | T5                           | 3 | 3 | 3 |  |  |  |
| AG2                                 | NA | NA   | NA | NA   | NA | D7                           | NA | NA   | NA | NA   | NA | N1                         | 3  | 3    | 3  | 3    | R2                                      | 3                         | 3  | 3    | 3  | T6                           | 3 | 3 | 3 |  |  |  |
| AG3                                 | 1  | NA   | NA | NA   | NA | D8                           | 3  | 3    | 3  | 3    | 3  | N2                         | NA | NA   | NA | NA   | R3                                      | NA                        | NA | NA   | NA | <b>6.16 Waste Management</b> |   |   |   |  |  |  |
| AG4                                 | NA | NA   | NA | NA   | NA | D9                           | 3  | 3    | 3  | 3    | 3  | N3                         | 4  | 4    | 4  | 4    | R4                                      | NA                        | NA | NA   | NA | WM1                          | 4 | 4 | 4 |  |  |  |
| <b>6.3 Biodiversity</b>             |    |      |    |      |    | D10                          | 5  | 5    | 5  | 5    | 5  | N4                         | 4  | 4    | 4  | 4    | R5                                      | NA                        | NA | NA   | NA | WM2                          | 4 | 4 | 4 |  |  |  |
| BD1                                 | 3  | 3    | 3  | 3    | 3  | <b>6.7 Energy Efficiency</b> |    |      |    |      |    | N5                         | 4  | 4    | 4  | 4    | R6                                      | NA                        | NA | NA   | NA | WM3                          | 4 | 4 | 4 |  |  |  |
| BD2                                 | 4  | 4    | 4  | 4    | 4  | EE1                          | 3  | 3    | 3  | 3    | 3  | N6                         | 4  | 4    | 4  | 4    | <b>6.10 Secondary Aggregate</b>         |                           |    |      |    |                              |   |   |   |  |  |  |
| BD3                                 | 3  | 4    | 4  | 4    | 4  | EE2                          | 4  | 4    | 4  | 4    | 4  | N7                         | 4  | 4    | 4  | 4    | SA1                                     | 3                         | 3  | 3    | 3  | WM4                          | 3 | 3 | 3 |  |  |  |
| BD4                                 | 3  | 3    | 3  | 3    | 3  | EE3                          | 4  | 4    | 4  | 4    | 4  | N8                         | 3  | 3    | 3  | 3    | SA2                                     | 3                         | 3  | 3    | 3  | WM5                          | 3 | 3 | 3 |  |  |  |
| <b>6.4 Blasting</b>                 |    |      |    |      |    | EE4                          | 4  | 4    | 4  | 4    | 4  | N9                         | 4  | 4    | 4  | 4    | <b>6.14 Surface Waters</b>              |                           |    |      |    |                              |   |   |   |  |  |  |
| BL1                                 | NA | NA   | NA | NA   | NA | EE5                          | 3  | 4    | 4  | 4    | 4  | N10                        | 4  | 4    | 4  | 4    | SW1                                     | 3                         | 3  | 3    | 3  | WM6                          | 4 | 4 | 4 |  |  |  |
| BL2                                 | NA | NA   | NA | NA   | NA | EE6                          | 4  | 4    | 4  | 4    | 4  | N11                        | NA | NA   | NA | NA   | SW2                                     | 3                         | 3  | 3    | 3  | WM7                          | 3 | 3 | 3 |  |  |  |
| BL3                                 | NA | NA   | NA | NA   | NA | <b>6.8 Groundwater</b>       |    |      |    |      |    | N12                        | 4  | 4    | 4  | 4    | SW3                                     | 3                         | 3  | 3    | 3  |                              |   |   |   |  |  |  |
| BL4                                 | NA | NA   | NA | NA   | NA | GW1                          | 3  | 3    | 3  | 3    | 3  | <b>6.11 Oil / Chemical</b> |    | SW4  | 4  | 4    | 4                                       | 4                         | 4  | 4    | 4  |                              |   |   |   |  |  |  |
| <b>6.5 Community</b>                |    |      |    |      |    | GW2                          | 4  | 4    | 4  | 4    | 4  | OCS1                       | 3  | 3    | 3  | 3    | SW5                                     | 3                         | 3  | 3    | 3  | 3                            |   |   |   |  |  |  |
| C01                                 | 3  | 3    | 3  | 3    | 3  | GW3                          | 4  | 4    | 4  | 4    | 4  | OCS2                       | 3  | 3    | 3  | 3    | SW6                                     | 3                         | 3  | 3    | 3  |                              |   |   |   |  |  |  |
| C02                                 | 4  | 4    | 4  | 4    | 4  | GW4                          | NA | NA   | NA | NA   | NA | OCS3                       | 2  | 3    | 3  | 3    |                                         |                           |    |      |    |                              |   |   |   |  |  |  |
| C03                                 | 5  | 5    | 5  | 5    | 5  | GW5                          | NA | NA   | NA | NA   | NA | OCS4                       | NA | NA   | NA | NA   |                                         |                           |    |      |    |                              |   |   |   |  |  |  |
| C04                                 | 3  | 3    | 3  | 3    | 3  |                              |    |      |    |      |    | OCS5                       | 3  | 3    | 3  | 3    |                                         |                           |    |      |    |                              |   |   |   |  |  |  |

# Environmental Audit

## 6.1 AIR QUALITY (EXCLUDING DUST)

| Impact No | Source of Environmental Risk(s)            | Specific Potential Environmental Impact(s)                                                                                                                                                                                                              | General Possible Improvement Measure(s)                                                                                                                                                                                                                             | Specific Possible Improvement Measure(s)                                                                                                                                                                                        | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AQ1       | Operating prescribed processes             | Release of emissions without or in breach of an emit for an authorised process is a criminal offence                                                                                                                                                    | Avoid emissions to air. Avoid producing dark smoke, odours and other potential nuisance. If you operate a prescribed process under LAPC then ensure that the site has obtained the appropriate permit and that it is not in breach of any of the conditions imposed | Ensure a permit has been acquired and that the site is not in breach of the conditions of the permit. Additional measures to upgrade permit conditions could include monitoring stack emissions with continuous stack monitors. | 5           | No prescribed processes are carried out at this site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| AQ2       | Burning of material                        | Burning of material and the production of smoke represent local air pollution. This has a detrimental effect on local air quality and will also contribute to global issues such as climate change. It may also represent a nuisance to local residents |                                                                                                                                                                                                                                                                     | Do not burn material on site and avoid the production of grey and dark coloured smoke on site.                                                                                                                                  | 5           | No evidence of burning seen on site. Environmental manager advised that no burning of waste is carried out on site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| AQ3       | Production of noxious and offensive gasses | Release of noxious or offensive gasses may have a detrimental effect on local air quality and may constitute a nuisance to local residents                                                                                                              |                                                                                                                                                                                                                                                                     | Avoid the production of noxious and offensive gasses.                                                                                                                                                                           | 5           | There are no significant gases produced on site. There is 1 diesel generator used as a pump engine for discharge of sand from boats which is used for up to 1 hour at a time.<br><br>Boats are normally unloaded 4 times per day but this may be increased to meet production demands. The generator was new in July 2003 and is serviced every 250 hours. The quantity of emission is very small and has no perceived impact on local air quality or residents.                                                                                                                                                                                                                                                                              |
| AQ4       | Road and site vehicles                     | Exhaust fumes from diesel engines can reduce local air quality                                                                                                                                                                                          |                                                                                                                                                                                                                                                                     | Ensure both site and off-site vehicle fleet is regularly maintained.                                                                                                                                                            | 5           | The loading shovel (Volvo L110E) is 4 years old and is serviced by Pat O'Donnell & Co. Ltd. at 500 hour intervals on a 3 year service and maintenance agreement. The first service at 100 hours was carried out on 8/8/5.<br><br>The excavator (Fiat Hitachi) is approximately 14 years old and is serviced annually by TBF Thompson with maintenance carried out by company fitters.<br><br>The site is normally supplied by 2 diesel engine sand barge boats, the William James (1968) and the Rams Island (1972), both of which are serviced at 250 hour intervals by Cyril D Johnston with maintenance carried out by company fitters. Records of maintenance work are kept.<br><br>New engines have been fitted within the last 9 years. |

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| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s) | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s) | Audit Score | Audit Comments                                                                                                                                                                                                    |
|-----------|---------------------------------|--------------------------------------------|-----------------------------------------|------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |                                 |                                            |                                         |                                          |             | Most of the road haulage vehicles are independently owned and outside the direct control of site. There are 2 owner driver trucks independently serviced and maintained as required by their contract agreements. |

# Environmental Audit

## 6.2 ARCHAEOLOGY AND GEODIVERSITY

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                                                                                                                      | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                    | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                        | Audit Score | Audit Comments                                                                                                                                                                                                                                                                      |
|-----------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AG1       | Response plan                   | Loss or damage of finds incurred during operation                                                                                                                                                                               | Particular care should be taken when extracting alluvium. Care should also be taken to ensure that newly discovered remains, and the areas in which they are found, are stable and safe areas in which archaeologists can work. The restoration plan should be modified to take account of new discoveries | A Response Plan should be in place in case archaeological remains or important geological deposits are discovered - the reporting of archaeological finds is required by law.<br>Avoid wet conditions if possible. In areas of recognised archaeological interests subsoils may be left exposed for an agreed period of time to allow inspection by specialist. | NA          | No land based extraction activities take place on site. There are no activities carried out that require any excavations of virgin ground.                                                                                                                                          |
| AG2       | Stripping of soils              | Can be particularly bad in wet conditions, and when soil is stripped down to clean gravel                                                                                                                                       |                                                                                                                                                                                                                                                                                                            | Instructor/training of site staff to raise awareness of potential features. Implement Response plan for any finds.<br>Artificial watering, creation of buffer zones or wet working may be instigated.                                                                                                                                                           | NA          | No stripping of soils is carried out on site.                                                                                                                                                                                                                                       |
| AG3       | Mineral extraction              | Loss or damage to geological or palaeontological features of interest                                                                                                                                                           |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                 | NA          | Considered to be Not Applicable by DOE NI at verification visit as it is a processing site and there is no soil stripping. Mineral extraction is from the bed of Lough Neagh and there is no knowledge of any geological or palaeontological features of interest within the Lough. |
| AG4       | De-watering operations          | Can dry out adjacent areas which may contain remains which are only preserved because they are submerged. Any change from this may initiate rapid decay, and the consequent damage / destruction of the archaeological resource |                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                 | NA          | There is no land based dewatering carried out within the site.                                                                                                                                                                                                                      |

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## 6.3 BIODIVERSITY

| Impact No | Source of Environmental Risk(s)           | Specific Potential Environmental Impact(s)                                                                                                                                                             | General Possible Improvement Measure(s)                                                                                                                                                                                                           | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                    | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BD1       | Biodiversity related planning constraints | Failure to adhere to biodiversity planning constraints could result in damage to habitats identified as being valuable                                                                                 | Planning constraints linked to biodiversity should be adhered to rigorously. Areas of high ecological value should be fenced off and staff made aware. The site should be continually monitored for the possible occurrence of protected species. | Adhere to planning constraints and avoid degrading designated areas. Areas to be marked off and access for recording and management provided.                                                                                                                                                               | 3           | There are no biodiversity related planning constraints. No knowledge of any designated areas within site. It is known that the Lough Neagh Area of Special Scientific Interest (ASSI), RAMSAR and Special Protection Area (SPA) designations relate to areas along the site boundary. Details of the designations are addressed in the OPA Biodiversity Report dated January 2008. No areas have been marked off yet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| BD2       | Non-designated sites                      | Valuable, non-recorded sites may be lost if not identified and protected                                                                                                                               |                                                                                                                                                                                                                                                   | Review site for areas of potential value. Agree access and management plans.                                                                                                                                                                                                                                | 4           | A biodiversity site review was carried out on 17 <sup>th</sup> January 2007 by OPA Biodiversity officer. A report has been prepared to identify habitats and species within the landholding and provide guidance on management. A site review was carried out and a landscape management plan produced in June 1998 but will be superseded by the Biodiversity management plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| BD3       | Protected species                         | Damage to protected species and their habitat represents a detrimental impact upon biodiversity and could also contravene The Conservation (Nature Habitats etc.) Regulations (Northern Ireland) 1995. |                                                                                                                                                                                                                                                   | Adhere to any planning constraint imposed with regard to protected species. Monitor the site. Ensure that staff are aware of the key protected species that may occur on site. Should protected species be found, avoid disturbing the habitat and seek guidance from the Environment and Heritage Service. | 4           | No planning constraints imposed with regard to protected species. Sand Martins are known to frequent the site and site staff are aware that their nests should not be disturbed when occupied. The Biodiversity review has identified sand martin activities. Nest boxes provided on site for Tree Sparrows.<br><br>The operator has introduced EMS Procedure EP 19 – 'Archaeology, Geology & Biology Response Plan', dated January 2008. Since the previous audit, the operator has introduced EMS Procedure BP1 01 – 'Biodiversity Action Plan – Lough Sites', dated August 2008.<br><br>OPANI Biodiversity Advice note for Sand Martins has been posted in weighbridge office.<br><br>Since the previous audit, the Lough Neagh employees attended a talk on the Biodiversity of Lough Neagh by [redacted], Biodiversity Officer for Lough Neagh & Lower Bann Wetlands Advisory Committee on 25 <sup>th</sup> May 2009. Training Record for 15 attendees. |
| BD4       | Use of Native Species                     | Use of native species in planting can contribute positively to biodiversity                                                                                                                            |                                                                                                                                                                                                                                                   | During restoration planning or landscape works, native species for all planting should be used if appropriate. Contact the Environment & Heritage Service for further advice.                                                                                                                               | 3           | No native species have been planted. Much of the established vegetation is the result of natural regeneration in previously disturbed areas. The landscape management plan produced in June 1998 identifies areas for planting of native species but will be superseded by the Biodiversity management plan. Some non native hedge species have been planted. Planting of deciduous species within close proximity of sand stockpiles is avoided to minimise the risk of contamination with leaves in autumn.                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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## 6.4 BLASTING

| Impact No | Impact of Blasting         | Specific Potential Environmental Impact(s)                                                                                                                                                                                                                                                                                                                                 | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Audit Score | Audit Comments                           |
|-----------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------|
| BL1       | Ground vibration           | Can cause damage to property, ranging from minor cosmetic cracks to major structural damage                                                                                                                                                                                                                                                                                | <p>The following might be activities mandated by planning conditions:</p> <ul style="list-style-type: none"> <li>Limits on the days per year when blasting occurs</li> <li>Limits on the number of blasts that occur in a day</li> <li>Limits on the timing of blasts</li> <li>Audible warnings prior to blasting</li> <li>Methods for minimizing air overpressure</li> <li>Monitoring to ensure limits are not exceeded</li> </ul> <p>These can, of course, be undertaken voluntarily, as well as:</p> <ul style="list-style-type: none"> <li>Ensuring adequate separation distances between the working face and any property, to remove risk of slope failures affecting such property.</li> <li>Personally informing local residents prior to blasting, particularly if blasting activities are infrequent</li> <li>Carrying out face surveys prior to blasting to double-check. If necessary, revise blast design following inspection</li> <li>Temporarily closing nearby roads if necessary</li> <li>If possible, directing</li> </ul> | <p>Scheme of vibration monitoring. Make results available to interested parties. (see Code of Practice - may be mandated by planning condition)</p> <p>Limits on ground vibrations received at noise or vibration sensitive properties</p> <p>Noise and vibration are intrinsically linked and are dealt with together in this section</p> <p>Prepare a written scheme of air overpressure control (see Code of Practice for details)</p> <p>Cover detonation cord(s) (noise becomes a dull 'thud' rather than a sharp 'crack')</p> | NA          | No blasting is carried out at this site. |
| BL2       | Air overpressure and noise | Air overpressure is blast energy transmitted through the air as pressure waves. It can be felt by humans, but is entirely safe. However, it can cause windows to rattle and ornaments to shake in houses. Noise can be quite loud, often in the form of a sharp 'crack', but impacts are temporary. Noise can also adversely affect wildlife (particularly breeding birds) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NA          |                                          |
| BL3       | Dust                       | Blasting creates large piles of rock, which fall to the ground and create dust. Drilling holes for explosives also causes dust.                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Filter dust from drill rigs</p> <p>Bag and remove drilling dust from blast zone</p> <p>Use stemming material (angular chippings)</p>                                                                                                                                                                                                                                                                                                                                                                                             | NA          |                                          |
| BL4       | Flyrock                    | Flyrock is the unexpected projection of debris beyond blast zone, caused by a number of factors. It can represent a danger to human health and safety, and if it carries beyond the site boundary, or injures someone, the event must be reported to the Health                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Can never be completely eliminated, but can be minimised by:</p> <ul style="list-style-type: none"> <li>Preparing a written specification for blasting and following it exactly</li> <li>Using sufficient stemming necessary</li> <li>Using toe rather than collar priming/detonation</li> </ul>                                                                                                                                                                                                                                 | NA          |                                          |

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| Impact No | Impact of Blasting | Specific Potential Environmental Impact(s) and Safety Executive. It can also cause damage to property | General Possible Improvement Measure(s)                                                                                               | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                           | Audit Score | Audit Comments |
|-----------|--------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|
|           |                    |                                                                                                       | <ul style="list-style-type: none"> <li>detonation away from sensitive locations</li> <li>Setting up a complaints procedure</li> </ul> | <ul style="list-style-type: none"> <li>Correctly training personnel</li> <li>Ensuring drill holes are accurate and avoid concentration of explosives at a particular point (e.g. corners)</li> <li>Filling natural rock cavities if they are visible and if practicable</li> </ul> |             |                |

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## 6.5 COMMUNITY

| Impact No | Source of Environmental Risk(s)       | Specific Potential Environmental Impact(s)                                                                                                                                                                                                                                  | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                  | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                               | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C01       | Dedicated contact                     | Failure to provide a dedicated named contact could result in complainants contacting regulators.                                                                                                                                                                            | Provide a dedicated contact and phone number, which the local community can contact at any time.<br>Encourage regular liaison between the site and the local community.<br>Provide advance notice to any residents that may be affected by any activities that may cause nuisance.<br>Consider holding open days and encouraging school visits to educate the community. | Provide a dedicated contact name and number for the local community.<br>Try to make the contact available throughout all operational hours. Publicise this name and number<br>Write and adhere to a complaints procedure that details the complaints process from the initial contact through to resolution.<br>Ensure the procedure prescribes timescales for response.<br>Log all complaints in detail.<br>Record corrective actions taken and the eventual outcome. | 3           | Sign at entrance includes a contact telephone number for the site but does not include a dedicated contact name. In the interests of personal safety for site managers it is company policy not to include the manager's name on the entrance sign. This policy has been accepted by DOE NI.                                                                                                                                                                                                        |
| C02       | Documented complaints procedure       | Adoption of a complaints procedure can help to ensure that complaints are handled in a uniform fashion and within specified timescales.                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4           | The company operates EMS Procedure 9.3 for External Communications which requires all communications to be forwarded to the Environmental Manager who maintains a record of all correspondence and associated records for resolution.                                                                                                                                                                                                                                                               |
| C03       | Complaints and corrective action log  | Failure to log complaints and corrective actions may result in unresolved issues and an inability to assess effectiveness of outcomes. It also provides an audit trail to prove that complaints have been taken seriously and that appropriate corrective action was taken. | Log any complaints and undertake prompt remedial action.<br>Liaise with the complainant to re-assure them that action is being taken.<br>Log all corrective actions taken so that effectiveness can be reviewed.                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5           | Complaints are recorded on EMS Incident Form EPR15/2.<br>The company maintains a 'Communications Log' EPR9/1 which is maintained by the Environmental Manager in electronic format. Records are kept of associated correspondence and resolution actions.<br><br>Log from June 2008 onwards inspected at audit.                                                                                                                                                                                     |
| C04       | Educational initiatives and open days | Educating local communities can help to improve the perspective of local residents towards aggregates and there extraction and processing. It can help build relations and inspire confidence in the management of a site.                                                  |                                                                                                                                                                                                                                                                                                                                                                          | Consider organising open days and conducting educational visits by local schools and colleges.<br>Provide opportunities for access of interested parties.                                                                                                                                                                                                                                                                                                              | 3           | An educational visit for St Marys Primary School was conducted in 2006 and 2007 at the Hutchinsons site to show sand extraction/processing operations and to the Airfield site in 2006 to show finished products in the tile factory.<br>The company also held a careers day at Randalstown for local schools.<br><br>Since the previous audit there has been another visit by St Marys School in June 2009.<br><br>The company is happy to provide opportunities for access to interested parties. |

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## 6.6 DUST (EXCLUDING BLASTING DUST)

| Impact No | Source of Environmental Risk(s)   | Specific Potential Environmental Impact(s)                                                                                                                             | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                              | Audit Score | Audit Comments                                                                                                 |
|-----------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------|
| D1        | Operating Prescribed Processes    |                                                                                                                                                                        | <p>If possible, locale dust-generating activities where:</p> <ul style="list-style-type: none"> <li>Sensitive receptors such as houses are upwind from the dust source</li> <li>The need to transport minerals around the site is minimised</li> <li>Maximum protection can be obtained from the local topography and woodland</li> </ul>                                                                                                                                                                             | <p>Ensure current permit is in place for all prescribed processes. Ensure all operations meet the conditions of the permit.</p> <p>Minimise speed of conveyors and drop heights to minimise likelihood of dust spread</p> <p>Install wind guards, covers on high and steep conveyors, belt cleaning, and dust collection systems</p>                                                                                  | NA          | No prescribed processes are carried out at this site.                                                          |
| D2        | Conveyor transfer of minerals     | Dust levels from conveyor transfer activities are often the most significant on mineral extraction sites, particularly because of their continuous, long term, nature. | <ul style="list-style-type: none"> <li>Schedule major dust-generating activities to avoid extremely dry or windy weather</li> <li>Utilise dust suppression watering techniques as appropriate, such as:                             <ul style="list-style-type: none"> <li>Bowsers</li> <li>Hand-held pumps</li> <li>Water trucks with water cannons</li> <li>Automated water atomizing sprays</li> </ul> </li> <li>Install and maintain on plant dust suppression technology recommended by manufacturers</li> </ul> | <p>Regularly clean and maintain conveyors</p> <p>Where problems arise introduce control measures such as water misting; wetting of mineral feed as practicable; enclosing plant and fitting dust extraction systems.</p> <p>To control dust, plant should have sealed silos for concrete with automatic alarms to prevent overfilling, sealed mixing areas with dust proof covers and dust extraction filters etc</p> | 5           | There are no conveyors used within the sand classification plant and all sand is processed in a wet condition. |
| D3        | Mineral crushing                  |                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                       | NA          | No mineral crushing is carried out on site.                                                                    |
| D4        | Batching Plant                    |                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                       | NA          | There is no concrete batching process carried out at this site.                                                |
| D5        | Removal of topsoil and vegetation |                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Avoid wetting of soils as this can cause damage to soil structures.                                                                                                                                                                                                                                                                                                                                                   | NA          | There are no topsoil or vegetation removal operations carried out at this site.                                |

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| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                              | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|---------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D6        | Mineral stockpiles and loading  |                                                                                         |                                         | Mineral stockpiles are likely subject to daily addition and reclaim and control measure where excess generation occurs. Reduce dust generation-through storage within sheltered bays (potentially three sided bays with roof), use of atomising sprays or regular wetting, or locate stocking and loading area remote from sensitive receptors. Where stockpiles represent longer term features, consideration should be given to sealing and protection using chemical or physical means. | 4           | Sand stockpiles are very wet when first formed under sand towers and have to drain so that sand is dry enough to be transported. The normal moisture content of the sand in stockpiles after draining is approximately 5%. No sensitive receptors have been identified on the basis of no complaints have been received.                                                                                      |
| D7        | Soil and Overburden dump        | Exposed soil and overburden can cause dust and be subject to erosion.                   |                                         | All soils and overburden dumps that will be in place longer than 6 months should be seeded as quickly as is practicable.                                                                                                                                                                                                                                                                                                                                                                   | NA          | No soil or overburden dumps have been created on site.                                                                                                                                                                                                                                                                                                                                                        |
| D8        | Haul roads                      | Vehicles can carry material onto highways and dust can be emitted from uncovered loads. |                                         | Install wheel washing equipment<br>Cover loaded vehicles                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3           | There is no wheel wash equipment on site. Loaded vehicles are not covered. The road in the vicinity of the entrance is cleaned with a road sweeper on a regular basis approximately every 3 weeks. DOE NJ Improvement Notice requires: Ensure there is no carry over from vehicles leaving the processing site. Ensure all vehicles leaving site are correctly loaded to prevent spillage onto road surfaces. |
| D9        | Internal Haul Roads             | Can be a major source of dust                                                           |                                         | Water haul roads with a dedicated bowser as required. Consider installing sprinklers in areas likely to be operational for long periods.                                                                                                                                                                                                                                                                                                                                                   | 3           | Internal haul routes around the plant area are covered with sandy material which is kept damp in locations where water drains from sand stockpiles. There is no water bowser or sprinkler system on site. Vehicle movement are intermittent and depend on sales volumes.                                                                                                                                      |
| D10       | Mobile Plant                    | Dust rise                                                                               |                                         | Exhausts on mobile plant should not be directed downwards as this can cause dust rise on roadways and unsurfaced areas.                                                                                                                                                                                                                                                                                                                                                                    | 5           | No vehicles with exhaust directed downwards.                                                                                                                                                                                                                                                                                                                                                                  |

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## 6.7 ENERGY EFFICIENCY

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                                                                                                | General Possible Improvement Measure(s)                                                                                                                                                                                 | Specific Possible Improvement Measure(s)                                                                                                                                                                                                 | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EE1       | Purchasing of plant             | Purchasing equipment without assessing energy consumption can result in acquisition of inefficient plant and equipment increasing energy consumption through out the life of the equipment                | Always seek to use the most efficient equipment and plant possible. Only operate equipment when it is needed. Regularly service and maintain plant and raise awareness of the need for energy efficiency amongst staff. | Consider efficiency of plant and equipment as part of the purchasing criteria. This can lead to reduced whole life impacts and costs. E.g. Motors can cost up to 100 times as much to run over ten years as their initial purchase cost. | 3           | Boat and generator engines have been replaced within the last 9 years with environmentally friendly engines. The company policy statement includes a commitment to review energy efficiency measures when plant is refurbished. Purchasing of major new plant such as loading shovels is carried out by parent company.<br><br>Energy efficiency is considered for purchase of motors as this provides for efficiency in operating costs. An electrical contractor (GES Group) is used for electrical maintenance services and who also advise on efficiency of motors when replacements are required.                                                                                                         |
| EE2       | Monitoring energy consumption   | Monitoring is essential to managing energy consumption. Failure to monitor can result in ineffective identification of potential energy savings and therefore opportunities to reduce the impact and cost |                                                                                                                                                                                                                         | Establish a monitoring programme to chart energy consumption data for the site. This can be used to identify areas of high-energy consumption, potential savings and a baseline from which improvements can be made.                     | 4           | A summary of energy usage is maintained and monitored by a company engineer. The Energy, Fuel & Water Usage for all of the company sites, includes data from 2003 onwards and provides information on energy usage and CO <sub>2</sub> per tonne of production to allow comparisons between sites. Energy Management Action Plans were prepared for 2008 and 2009 and progress reviewed quarterly. An Energy Management Action Plan has been prepared for 2010. Improvement in reducing the boat engine rpm through modification achieved a saving of 15%. This initiative won the QPANI Carbon Reduction Initiative of the Year award.                                                                        |
| EE3       | Compressed Air                  | Compressed air is expensive to generate in terms of impact and cost. Compressors are typically only 10% efficient.                                                                                        |                                                                                                                                                                                                                         | Check air compressors and lines routinely for leaks. Avoid unnecessary long runs in air lines. Only operate compressors when required.                                                                                                   | 4           | There is one compressor which is used in the garage workshop. The compressor is used with a grease gun and is only used on an occasional basis. The hose is relatively short.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| EE4       | Motors and Drives               | Motors are large consumers of energy. They account for up to two thirds of electrical energy in industry.                                                                                                 |                                                                                                                                                                                                                         | Use high efficiency motors. Switch off motors when not in use. Reduce motor speeds where possible - Variable Speed Drives can save 30 - 40%.                                                                                             | 4           | Motors are replaced as and when necessary. An electrical contractor (GES Group) is used for electrical maintenance services and who also advise on efficiency of motors when replacements are required. There are no conveyors used within the sand classification plant and all sand is processed in a wet condition.                                                                                                                                                                                                                                                                                                                                                                                         |
| EE5       | Transport                       | Consumption of fuels by vehicles depletes fossil fuels and cause associated emissions, they may also constitute a nuisance                                                                                |                                                                                                                                                                                                                         | Regularly service and maintain vehicles. Try to reduce the number of journeys required through planning. Raise awareness amongst staff about driving techniques for efficiency.                                                          | 4           | The loading shovel is 4 years old and is serviced at 500 hour intervals on a service and maintenance agreement.<br><br>The excavator is approximately 14 years old and is serviced annually by TBF Thompson with maintenance carried out by company fitters.<br><br>The site is normally supplied by 2 diesel engine sand barge boats, the William James (1968) and the Rams Island (1972), both of which are serviced at 250 hour intervals with maintenance carried out by company fitters.<br><br>Records of maintenance work are kept.<br><br>Most of the road haulage vehicles are independently owned and outside the direct control of site. There are 2 owner driver trucks independently serviced and |

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| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                             | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s) | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                            |
|-----------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EE6       | Servicing and maintenance       | Poorly maintained plant will be less efficient and consume more energy to carry out the same task than efficient well maintained plant |                                         | Regularly service and maintain plant.    | 4           | maintained as required by their contract agreements.<br><br>There is no planning to try to reduce the number of journeys required. Induction training includes awareness of diving techniques for efficiency.<br>Fixed plant is subject to regular visual inspections by site staff and maintained as and when necessary. |

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## 6.8 GROUNDWATER

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                                                                         | General Possible Improvement Measure(s)                                                                                                                                                                                                     | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                 | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GW1       | Monitoring                      | Failure to monitor the effects on groundwater will result in late detection of any potential issues preventing early identification and implementation of appropriate improvement. | Assess the hydrology of the site before commencing operations. Continually monitor groundwater levels and also affects of abstractions on agriculture, ecology and the land.<br>Prevent the infiltration of pollutants into the groundwater | Sites should identify and regularly monitor sensitive receptors and record pertinent data.                                                                                                                                                                                                                                               | 3           | The company commissioned a 'Preliminary Environmental Review Report' which was produced in July 1998. The report described the site (along with Ballyginniff & Hutchinsons) as in 'High Risk areas where oil spills could leach into the underlying soils' and that the soils are of 'high leaching potential over moderately permeable rock'. As the site is located adjacent to Lough Neagh the operator is aware of the sensitivity of the site's location. There is no monitoring of groundwater levels carried out principally as there is no land based extraction.<br>The site is not aware of any specific sensitive receptors.<br>Water is drawn from Lough Neagh to facilitate pumping of sand from barges and into sand classification plant. Any water not retained within sand product stockpiles drains across the yard and is mostly directed to return to Lough Neagh.<br>Application for appropriate Abstraction licensing as per the Water Abstraction and Impoundment (licensing) Regulations 2006 has been submitted with information on proposed maximum abstraction levels. Application reference no. AIL2008/0077. |
| GW2       | Abstraction                     | Over abstraction may cause a significant cone of depression and adversely affect the hydrology of an aquifer. It will also provide a pathway to an aquifer for pollutants          |                                                                                                                                                                                                                                             | EHS Water Management Unit should be consulted on maximum abstraction levels. Operators should use minimisation techniques to reduce below this level.                                                                                                                                                                                    | 4           | Spill kit materials are held on site and include booms (large and small), mats and absorbent rolls.<br>These are stored in the garage workshop and electrical switch building.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| GW3       | Pollution of Groundwater        | Pollutants entering the groundwater could pollute important water resources.                                                                                                       |                                                                                                                                                                                                                                             | Have appropriate spill kits in areas of risk.<br>Respond to any spill as quickly as possible, contain the spill and remove pollutants through use of appropriate spill kits.<br>Avoid dewatering.<br>If dewatering is unavoidable dewater progressively in cells, monitoring effects continuously.<br>Reduce inflow of water by sealing. | 4           | No dewatering is carried out within the site. The level of water in Lough Neagh is managed by DoE (NI).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| GW4       | Dewatering                      | Dewatering can adversely affect the Hydrology of an area                                                                                                                           |                                                                                                                                                                                                                                             | Leave effective filter layers of aquifers and provide adequate opportunity for recharge of aquifers.                                                                                                                                                                                                                                     | NA          | There are no extraction activities within the site and as such no aquifer filter layers are removed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| GW5       | Aquifers                        | Removal of filter layers and failure to provide for sufficient recharge may damage a valuable water resource.                                                                      |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                          | NA          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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## 6.9 LANDSCAPE AND VISUAL

| Impact No | Source of Environmental Risk(s)                              | Specific Potential Environmental Impact(s)                                                                         | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                  | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                               | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LV1       | Landscape Master Plan                                        |                                                                                                                    | Good site design during the planning application and operational phases can minimise impacts.<br>Operators should plan ahead for planting and management, direction of working, progressive restoration, and siting of processing plant.                                                                                                                                                 | Site operators should have or develop a landscape plan for the site covering the full life cycle from current operations to final restoration and closure.<br>Consider alternative locations for tall plant - can it be located where its effects will be less visually obtrusive? If unavoidable select suitable cladding.                                                            | NA          | A site review was carried out and a landscape management plan produced in June 1998 but has been superseded by the Biodiversity review. No extraction takes place within the site and therefore a restoration plan has not been prepared. The DOE NI determined in a revised improvement notice that this impact was Not Applicable 'As this is a processing site and there is no extraction.' |
| LV2       | Tall structures                                              | Introduction of features alien to the landscape can adversely affect that landscape and can cause visual intrusion | Good use can be made of existing topography, woodlands, hedges, mounds, and general site layout to screen potentially intrusive activities.<br>Introduced improvement measures such as screen planting, landscaping, fences, etc. can also be effective.<br>The site should have a 'good housekeeping' policy which seeks to keep the site tidy and well-maintained, including paintwork | This may be mitigated as part of a restoration plan. Operators should seek to consult on landscaping requirements with the planning authority<br>Consider use of screen planting, retention of existing visual/screen features, construction and planting up of screening mounds and management of vegetation once established.<br>(Landscape and noise screen mounds may be combined) | 3           | The sand classification plant includes 2 towers up to approximately 15 metres tall which are located close to Lough Neagh to facilitate processing of sand directly from sand barges.<br>The site is located within a predominantly flat area of landscape and is not open to many significant views other than those from within the Lough.                                                   |
| LV3       | Open quarry faces, excavation voids, overburden mounds, etc. | Can involve destruction of some of the existing landscape, such as a hill, distant view or skyline                 |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                        | NA          | There are no extraction activities within the site and as such there are no open quarry faces, excavation voids or overburden mounds.                                                                                                                                                                                                                                                          |
| LV4       | Site Entrances                                               | Site entrances are often the most visible part of an operations                                                    |                                                                                                                                                                                                                                                                                                                                                                                          | Keep entrances clean with well maintained fencing and planting schemes as appropriate, signage should be well kept, roads surface cleaned, verges are kept cut and tidy and debris, litter, old plant etc removed from view.                                                                                                                                                           | 3           | Steel gates and fencing are used to define the entrance to site.<br>Hedge shrubs and natural regeneration to either side of the gates is quite mature and provides a partial screen to some views into the site from the adjacent road.<br>The entrance appears tidy, free of litter and well maintained.<br>The surface of the public highway was relatively clean at the time of the audit.  |
| LV5       | Good House Keeping                                           |                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                          | Have well maintained fencing and planting schemes as appropriate, signage should be well kept, roads surface cleaned, verges are kept cut and tidy and debris, litter, old plant etc removed from view.                                                                                                                                                                                | 3           | Boundary to site defined largely by banks supporting shrubs and natural regeneration which is quite mature. This vegetation provides a degree of enclosure for the site and is keeping with the character of adjacent areas. Agricultural fencing and/or hedgerows are used for some boundaries.                                                                                               |

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## 6.10 NOISE

| Impact No                   | Source of Environmental Risk(s)             | Specific Potential Environmental Impact(s)                                          | General Possible Improvement Measure(s)                                                                                                                                                                                                                                 | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                   | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N1                          | General Site Operations                     |                                                                                     |                                                                                                                                                                                                                                                                         | Develop operational plans and appropriate improvement strategies to ensure noise impacts from static and mobile plant are minimised. Where they exist, noise related planning conditions will be the basis of the site control measures. Where plans do not exist they should be developed.                                                                                | 3           | No operational plans or improvement strategies have been developed. No noise limits set in planning. The site operator is not aware of any complaints regarding noise.<br><br>The operator has adopted voluntary working hour restrictions to minimise noise impacts outside of normal working hours.                    |
| Static Plant and Operations |                                             |                                                                                     |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                            |             |                                                                                                                                                                                                                                                                                                                          |
| N2                          | Drilling                                    | Likely to cause particular irritation to local residents                            | Incorporate buffer zones between extraction and processing activities and sensitive receptors.                                                                                                                                                                          | Undertake drilling operation at times least likely to cause nuisance. Use well maintained silenced equipment. Install portable acoustic barriers if in sensitive locations.                                                                                                                                                                                                | NA          | No drilling operations are carried out within the site.                                                                                                                                                                                                                                                                  |
| N3                          | Draglines, excavators and conveyors         |                                                                                     | Take advantage of natural topography and quarry faces to screen noise. Install acoustic screening. Select low-noise plant, possibly electric-powered. If possible, locate plant as far away as possible from sensitive receptors. Regularly maintain plant - especially | Keep all draglines and conveyors well maintained and lubricated to reduce noise. Fit appropriate silencers to all diesel engines.<br>If pump operation is likely to be an issue, ensure the pump is suitably acoustically insulated. Locate away from sensitive receptors.<br>Fit appropriate silencers. If appropriate, locate plant in acoustically insulated enclosures | 4           | There are no conveyors used within the sand classification plant. All mobile plant fitted with silencers. The excavator is only used on an occasional basis and is regularly serviced and maintained.                                                                                                                    |
| N4                          | Pumping                                     | Likely to be left on overnight, so may cause particular problems                    |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                            | 4           | The diesel powered pump used for discharging barges is located within a building near to the edge of Lough Neagh. Pumps used for abstraction and serving the sand plant are electric. All pumps are located away from any potential sensitive receptors.                                                                 |
| N5                          | Engine noise                                |                                                                                     |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                            | 4           | The diesel engine which powers the pump used for discharging barges is located within a building near to the edge of Lough Neagh. The building is not acoustically insulated but is located away from any potential sensitive receptors. The diesel engine is only used during periods when a barge is being discharged. |
| N6                          | Crushing and Screening                      | Likely to be particularly noisy and may not meet noise limits for normal operations | Regularly maintain plant - especially                                                                                                                                                                                                                                   | Locate plant away from sensitive receptors. Make maximum use of natural topography to screen plant. Use acoustically insulated enclosures in sensitive areas.                                                                                                                                                                                                              | 4           | No crushing is carried out on site. The oversize screen on the feed to the sand classification plant is located near to the edge of Lough Neagh and away from any potential sensitive receptors. No complaints have been received regarding processing plant.                                                            |
| N7                          | Erection, maintenance and movement of plant |                                                                                     | Lubrication of bearings and sharpening of cutting edges, Limit working hours                                                                                                                                                                                            | Undertake at times least likely to cause nuisance. Where out of hours activity is necessary, avoid early starts or late working and control activities to minimise noise generation within sensitive locations.                                                                                                                                                            | 4           | Maintenance works are generally carried out during normal working hours which are 7.00 am to 5.00 pm Monday to Friday and 7.00 am to Noon Saturday mornings. No complaints have been received regarding maintenance work.                                                                                                |

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| Impact No                   | Source of Environmental Risk(s)     | Specific Potential Environmental Impact(s)                | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                 | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------|-------------------------------------|-----------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mobile Plant and Operations |                                     |                                                           |                                         |                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                     |
| N8                          | Trucks, dozers, scrapers, loaders - | Likely to cause particular irritation to local residents  | Limit working hours                     | Select low-noise plant. Fit silencers. Maintain plant in accordance with manufacturers' recommendations.                                                                                                 | 3           | All mobile plant fitted with silencers. The loading shovel is serviced at 500 hour intervals on a service and maintenance agreement. The excavator is serviced annually with maintenance carried out by company fitters.<br><br>The site is normally supplied by 2 diesel engine sand barge boats both of which are serviced at 250 hour intervals with maintenance carried out by company fitters. |
|                             | general engine noise                |                                                           |                                         | Lubricate tracked vehicles regularly to avoid squeal.                                                                                                                                                    |             |                                                                                                                                                                                                                                                                                                                                                                                                     |
| N9                          | Internal Haul Roads                 | Uneven roads can increase noise emitted from mobile plant |                                         | Keep roads smooth to avoid bounce.                                                                                                                                                                       | 4           | Internal haul roads around the plant area are graded as required, dependent upon spillages and rutting, to keep internal routes in a good state of repair.                                                                                                                                                                                                                                          |
| N10                         | Audible reversing alarms            | Likely to cause particular irritation to local residents  |                                         | Use alternative alarm systems, such as "smart" alarms which monitor the ambient noise levels and only emit an alarm 10 dB(A) above this level. Radar controls and directional alarms are also available. | 4           | Mobile plant uses standard bleeper type alarms which is a common approach for the company. No history of complaints regarding reversing alarms at his site.                                                                                                                                                                                                                                         |
| N11                         | Other whistles and sirens           | Likely to cause particular irritation to local residents  |                                         | Ensure sirens and whistles are appropriate to their purpose, position so that disturbance of sensitive receptors is minimised.                                                                           | NA          | No sirens are used on site                                                                                                                                                                                                                                                                                                                                                                          |
| N12                         | Body slap of empty vehicles         | Likely to cause particular irritation to local residents  |                                         | Limit working hours.                                                                                                                                                                                     | 4           | No complaints received regarding body slap. Internal haul routes around the plant area are on sandy material.                                                                                                                                                                                                                                                                                       |

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## 6.11 OIL / CHEMICAL STORAGE AND HANDLING

| Impact No | Source of Environmental Risk(s)          | Specific Potential Environmental Impact(s)                                                                                                                                               | General Possible Improvement Measure(s)                                                                                                                                                  | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                            | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OCS1      | Bulk oil and chemical storage facilities | Poorly maintained storage facility without secondary containment may leak and cause pollution.                                                                                           | Tanks should be of good integrity and housed within suitable secondary containment.<br>Tanks and drums should be sited away from areas at risk of impact and from surface water systems. | Provide adequate secondary containment of all fixed chemical and oil tanks with a minimum capacity of 110% of the volume of the tank.<br>Secondary containment should be constructed in line with guidance PPG02. Where underground pipework exists it should be regularly pressure tested.                                                         | 4           | The fuel oil storage facilities have been upgraded in recent years and consequently an old steel tank within a concrete block bund has been decommissioned but remains on site.<br>Diesel for the pump engine is stored within a double skinned plastic tank which is connected from a bottom outlet via a rubber reinforced pipe to the engine. The tank is located outside on a concrete base and protected by steel bollards.<br>Bligel/waste oil and diesel for barges and mobile plant are stored in a double skinned plastic tank.<br>The diesel tank for mobile plant and barges is fitted with a bottom outlet. The tanks are located within a concrete block bund which is provided with corrugated metal sheets on 3 sides and a roof. An electric pump is also located within the bund. Draw off pipes for refuelling mobile plant and barges are connected to the pump. Some pipework has been moved to within the bund since the previous audit. The draw off pipes for refuelling barges remains located outside the bund although this is fitted with an electric cut off valve. A section of the draw off pipework for refuelling barges had been located underground. This pipework was pressure tested following a DOE NI verification visit. Since the previous audit, the underground pipework has been taken out of use and replaced by a retractable hose reel which has been located within the bund. Remnant dispensing pipework has yet to be removed.<br>The company has produced Notice EWI 13 which gives details on delivery procedures and is displayed near the delivery points.<br>Procedures for fuelling and refuelling are defined in the company EMS Procedure EWI 12 - Fuelling & Refuelling 12.3 - Filling of fuel tanks.<br>Spill kit materials are held on site and include booms (large and small), mats and absorbent rolls.<br>These are stored in the garage workshop and electrical switch building. Filling areas are not isolated from surface water but concrete bases have been provided. |
| OCS2      | Bulk oil and chemical delivery to tank   | Risk of spillage during delivery of bulk oils and chemicals to storage tanks                                                                                                             | All storage and filling should be on impermeable hard standing.<br>Spill kits should be placed near areas of risk.<br>All oil storage should be protected from potential vandalism.      | Notice giving details on safe delivery procedures and what to do in an emergency, near delivery point (available from EHS).<br>Fill pipe located within the secondary containment.<br>Automatic cut off pipes, spill kits in vicinity, delivery supervised, filling areas isolated from surface water system using ramps, roll-overs and bunds etc. | 4           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| OCS3      | Location of oil storage facilities       | Locating oil storage close to sensitive receptors e.g. water courses, or on permeable ground, shortens the pollution pathway and will reduce the time available to contain any spillage. |                                                                                                                                                                                          | Oil storage facilities should be sited away from surface water drainage systems, controlled waters and boreholes (minimum 10m from a watercourse and 50m from a borehole), on an impermeable base with suitable secondary containment to prevent migration of any spill.                                                                            | 3           | Oil storage facilities associated with the diesel pump engine, bligel/waste oil and diesel for barges are located within close proximity (approximately 10 to 15 metres) to Lough Neagh. This arrangement reflects the need to have facilities close to where sand barges are unloaded and refuelled.<br>Storage facilities are located on impermeable concrete base.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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| Impact No | Source of Environmental Risk(s)                   | Specific Potential Environmental Impact(s)                                                                                                                                                                     | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                  | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OCS4      | Use of mobile bowsters                            | Bowsters left in areas at high risk of impact e.g. in routes used by mobile plant. Could potentially be punctured by impact. Poorly maintained bowsters and careless use could result in a pollution incident. |                                         | All bowsters should have appropriate secondary containment e.g. double skinned. They should always be sited away from sources of potential risk e.g. routes used by mobile plant and have shut-off valves/trigger guns fitted. All bowsters should be locked outside of operational hours | NA          | The site does have a mobile fuel bowser.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OCS5      | Manual handling of Oils and Chemicals             | Careless handling and inadequate equipment increase the risk of spillage. Undertaking handling activities near surface waters or on permeable ground increases the risk of pollution                           |                                         | Where practical hand pumps should be used for extraction of liquids from drums. Filling should take place on impermeable hard standing. Guidance on handling is contained in PPG11.                                                                                                       | 4           | Drums used with 'Polly dolly' which contains drips. Half of floor to garage workshop had previously been unsurfaced and used to park vehicles. Since the previous audit the remaining half of the garage workshop floor has been provided with a concrete surface.                                                                                                                                                                                                                                        |
| OGS6      | Signage on Bulk oil and chemical tanks and stores | Failure to provide signage may result in tanks being used or filled incorrectly. This could result in a pollution incident.                                                                                    |                                         | All tanks should be clearly marked as to their contents. Delivery procedures should also be placed on the tank next to the point of delivery.                                                                                                                                             | 4           | The bulk tanks were all marked with their contents labelled. Notices giving details on safe delivery procedures and what to do in an emergency have been posted near the delivery points                                                                                                                                                                                                                                                                                                                  |
| OCS7      | Storage of drums                                  | Poor storage of drums and intermediate bulk containers without secondary containment may lead to leakages and cause pollution                                                                                  |                                         | Drums stored on an impermeable base ideally banded. Drum storage areas should be sited away from plant, watercourses and drains. Drums and IBCs should be stored in accordance with PPG26.                                                                                                | 3           | Drums are kept in a steel tray within the garage workshop which has a concrete floor. Hand pumps are used. A Poly Trolley is provided for use with 208 litre drums. Some small plastic drums are kept on small plastic sump pallets in pump engine shed on concrete.                                                                                                                                                                                                                                      |
| OCS8      | Pollution incident response                       | Poor pollution response plans, inadequate spill kits and lack of staff training can result in ineffectual pollution control. This could lead to pollution of controlled waters and land contamination          |                                         | Spill kits, trained staff, spill procedure, incidents logged and corrective actions put in place. Guidance available in PPG21. Incidents should be reported to the EHS Water Management Unit on the free phone hotline (0800 80 70 60)                                                    | 5           | Spill kit materials are held on site and include booms (large and small), mats and absorbent rolls. These are stored in the garage workshop and electrical switch building. Staff training records are kept. Spill procedure is EMS 13 Emergency Preparedness and Response. Work Instruction EW1 01 – Accidental Oil Spillage is held on file at all sites. Freephone emergency hotline telephone number is listed in EW 101. No incidents recorded since system procedures/work instructions introduced. |
| OCS9      | Security and Vandalism                            | Unauthorised operation and vandalism could result in discharge of polluting matters to controlled waters.                                                                                                      |                                         | Oil storage facilities should be as resistant as possible to unauthorised interference and vandalism. Any permanent taps or valves should be locked shut when not in use.                                                                                                                 | 4           | No known history of vandalism to oil storage facilities. Some of the pipes and nozzles are not protected against possible unauthorised interference and vandalism. Electric pumps are isolated at night.                                                                                                                                                                                                                                                                                                  |

# Environmental Audit

## 6.12 RESTORATION AND AFTERCARE

| Issue No | Component of Reclamation and Potential Issues | Possible Management Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                 | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R1       | Restoration Scheme                            | This should ideally be considered at the project inception, and show a vision of the final result anticipated and the processes required to achieve it. There should be an up-to-date copy of the Reclamation Scheme in the site management office; it should reflect what reclamation works are expected to be undertaken, not simply what was originally planned. The Reclamation Scheme should be fully integrated with the Working Scheme. | NA          | A site review was carried out and a landscape management plan produced in June 1998 but has been superseded by the Biodiversity review. No extraction takes place within the site and therefore a restoration scheme has not been prepared.<br>The DOE NI has determined in a previous revised improvement notice that this impact is Not Applicable. As this is a processing site and there is no extraction. |
| R2       | Proposed After-use                            | Any proposed after use must take account of physical characteristics, adjacent land uses, setting, planning designations, local opinion and the desire of any interested parties.                                                                                                                                                                                                                                                              | 3           | No proposed afteruse has been considered. The landscape management plan has been prepared on the basis of the sand plant remaining as a permanent development.                                                                                                                                                                                                                                                 |
| R3       | Progressive Restoration                       | Progressive restoration is preferable to leaving reclamation works to the end of the operational site life, because it reduces the site's environmental impacts more quickly. The rate of progressive reclamation should be roughly equal to the rate of mineral extraction.                                                                                                                                                                   | NA          | There are no extraction activities within the site and as such there are no requirements for any progressive restoration operations.                                                                                                                                                                                                                                                                           |
| R4       | Financial Provisions for Restoration Works    | Only in rare cases will a Mineral Planning Authority require financial guarantees to ensure reclamation. The proposed European Directive on the Management of Waste from the Extractive Industries sets out significant changes to the current regime in this area.                                                                                                                                                                            | NA          | There are no restoration requirements for the site and as such there are no MPA requirements for financial guarantees.                                                                                                                                                                                                                                                                                         |
| R5       | Regulatory Authority Consultation             | Consultation is vital                                                                                                                                                                                                                                                                                                                                                                                                                          | NA          | There are no restoration requirements for the site and as such there has been no need to conduct any such consultations.                                                                                                                                                                                                                                                                                       |
| R6       | Public Consultation Regarding Restoration     | Public involvement is preferential, and can assist in raising the public image of the company. It can help define appropriate after uses and identify any potential socio-economic benefits that may be derived from the scheme.                                                                                                                                                                                                               | NA          | There are no restoration requirements for the site and as such there has been no need to conduct any such consultations.                                                                                                                                                                                                                                                                                       |

# Environmental Audit

## 6.13 SECONDARY AGGREGATE USAGE

| Impact No | Source of Environmental Risk(s)                            | Specific Potential Environmental Impact(s)                                                                          | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                         | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SA 1      | No decrease in use of virgin aggregate                     | Virgin aggregates are a finite resources and will be exhausted if alternative resources are not developed and used. |                                         | <p>Retain evidence of efforts to source recycle material.</p> <p>Retain evidence of advising potential suppliers of capacity to take in recycle material.</p> <p>Installation of recycling equipment.</p> <p>Acquisition of any additional permits required to take in recyclable/recoverable materials.</p> <p>Retain evidence of tonnages of recycle incorporated into aggregate products.</p> | 3           | <p>No efforts have been made to source, or establish potential suppliers for, recycle materials.</p> <p>Recyclates have not yet been incorporated into aggregate products.</p> <p>Considering the restricted range of sand aggregate products produced at the site the operator believes that there are limited opportunities incorporate recycle materials within the current range of sand products.</p> |
| SA2       | No increase in use of recyclates and recovered aggregates. | No decrease in the amount of construction and demolition waste sent to landfill.                                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                  | 3           | There are no plans to increase the use of recyclates and recovered aggregates at the site.                                                                                                                                                                                                                                                                                                                 |

# Environmental Audit

## 6.14 SURFACE WATERS

| Impact No | Source of Environmental Risk(s)   | Specific Potential Environmental Impact(s)                                                                                                                                                                | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                        | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                            | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SW1       | Consent to discharge              | Discharges to surface waters are strictly controlled through a permit system. Discharging without consent is an offence and without tight environmental controls may lead to pollution of surface waters. | Design surface water systems so that all run off from the site is channelled through a settling process to remove particulates and oil interceptors before it is discharged.<br>Any discharge of Trade effluent to a water course should have consents. Conditions of any consent should be adhered to.<br>Try to minimise use of mains supplied water and maximise the use of surface run off in processes e.g. damping down. | If a consent for any discharge to surface waters exists; strict adherence to the conditions set out in the consent is mandatory.                                                                                                                                                    | 4           | Consent to Discharge, Consent No. 220/06 dated 13 <sup>th</sup> June 2006 no visible oil or grease and no substances which will cause water to be toxic or injurious to fish or other aquatic organisms. Discharge is normally intermittent dependent on frequency of unloading barges and rainfall. No limits have been set for suspended solids.<br>The operator has previously submitted a technical report on typical discharge quality and predicted impacts on Lough Neagh.<br>A consent is held for the septic tank ref. no. CN/1038/2001 dated 30 <sup>th</sup> March 2001 which requires that the discharge shall not contain suspended solids in excess of 120mg/l, not exceed 1 cubic metre per day and that the tank shall be desludged at least once every year. The operator has established an annual contract to empty the tank. This discharge is subject to monthly visual checks. |
| SW2       | Settling of particulates          | Failure to settle out particulates before discharge may lead to pollution of water courses.                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                | Particulates should be settled out in sumps and lagoons before discharge. These should be of an adequate size to cope with storm increases and should be suitably shielded from the wind to prevent material being stirred up.                                                      | 3           | The majority of surface water is directed back to Lough Neagh. There are no limits for suspended solids. Excess water from the sand classification plant, containing silty sand, is directed back into Lough Neagh. In addition, any water not retained within sand product stockpiles drains across the yard and is mostly directed to return to Lough Neagh. The site makes use of a small silt settlement sump.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SW3       | Oil interceptors and scum removal | Without interceptors discharge from the site may be contaminated with oils.                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                | Interceptors should be installed before final discharge. Interceptors should be well maintained and emptied as required (The contents should be treated as special waste). Detergents should not be in the surface water system, as these will negate the effect of an interceptor. | 3           | No interceptors have been installed before final discharge. The excess water from the sand classification plant is kept separate from the surface water system and directed to Lough Neagh.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| SW4       | Water consumption minimisation    | Water is a valuable natural resource. Mains water has undergone an energy intense process of cleaning and as such has extra impacts.                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                | Minimise the use of mains water on sites through the use of recycling and run-off water in processes.                                                                                                                                                                               | 4           | There is no mains water used in the processing of sand. Mains water is used only for site office requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SW5       | Erosion                           | Erosion around the site will increase the level of suspended particulate matter. This may place increased pressure on the                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                | Vegetate exposed areas, cover mounds of soil, overburden and waste either physically or with vegetation.                                                                                                                                                                            | 3           | No soil or overburden dumps have been created on site. Surrounding areas and mounds etc have mainly been vegetated through natural regeneration. Not all areas are vegetated. No problems of erosion identified on site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

# Environmental Audit

| Impact No | Source of Environmental Risk(s)       | Specific Potential Environmental Impact(s)                      | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|---------------------------------------|-----------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SW6       | Site Drainage / Water Management Plan | settling systems and could increase the risk of silt pollution. |                                         | <p>Progressively restore areas and line water channels.</p> <p>Where practical clean water run off (such as from roofs) should be separated from dirty water and discharged directly from site (or collected if required). Drainage plans should be held for the site indicating where all site run-off reports. Where formal foul and surface water systems exit on site these should be shown on a site plan and any appropriate drain covers marked to indicate where fouls or surface exit.</p> | 3           | <p>There are no arrangements on site to separate clean water from the dirty water system for discharge of water containing suspended solids. The operator has produced a site drainage plan. The consent for the septic tank includes a plan of the site indicating the location of the septic tank. There are no mains linked foul or surface water drainage systems on site.</p> |

# Environmental Audit

## 6.15 TRANSPORT (OFF-SITE EFFECTS)

| Impact No | Source of Environmental Risk(s)                                   | Specific Potential Environmental Impact(s)                                                                                                                                                                                                          | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                       | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| T1        | Ingress to and egress from site                                   | Can cause disturbance to local community, and impacts may be especially bad during early morning, late evening and at night                                                                                                                         | Sensitive routing should, if possible, be adopted in order to avoid residential or other sensitive areas. The local Highways Agency could issue Weight Restriction Orders on particular routes, or Routing Agreements could be signed by mutual undertaking.<br><br>Consideration should be given to alternative means of transportation, such as rail for long distance movements (if facilities are available), or conveyor systems to adjacent sites if applicable.<br><br>Additional care should be taken to inform drivers unfamiliar with the site of any relevant local environmental considerations | Review site access and establish whether effects on congestion etc. are significant. Consideration should be given to sensitive routing (see General Possible Improvement Measures)                                                                                            | 3           | The route taken by road haulage is entirely dependent on customer requirements. The site is not aware of any sensitive routing issues. A safe site entrance has been provided. No significant congestion effects have been identified.                                                                                                                                                           |
| T2        | Dirt on vehicles leaving site                                     | May create dust, which can cause both a nuisance and adverse impacts on ecology and water resources<br>Can also be classified as 'litter' - the deposit of which is an offence. In large quantities it could also cause a hazard to other motorists |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ensure that vehicles leaving the site are wheel-washed                                                                                                                                                                                                                         | 3           | There is no wheel wash equipment on site. Loaded vehicles are not covered. The road in the vicinity of the entrance is cleaned with a road sweeper on a regular basis approximately every 3 weeks.<br>Previous DOE NI Improvement Notice for Sandy Bay required: Ensure there is no carry over from vehicles leaving the processing site.                                                        |
| T3        | Accidental spillage of aggregate on roads                         | Can be classified as 'litter' - the deposit of which is an offence. In large quantities it could also cause a hazard to other motorists                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Loads should be properly loaded, trimmed and sheeted as appropriate.                                                                                                                                                                                                           | 3           | Loaded vehicles are not sheeted. The road in the vicinity of the entrance is cleaned with a road sweeper on a regular basis approximately every 3 weeks. There was no evidence of spillage on the public highway during the course of the audit. DOE NI Improvement Notice for Sandy Bay required: Ensure all vehicles leaving site are correctly loaded to prevent spillage onto road surfaces. |
| T4        | Poor parking facilities on site                                   | If vehicles are forced to park on local roads instead of within the site, this can create congestion and parking problems (particularly overnight)                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sufficient car parking should be provided on site. If not, off site parking should take account of the likely effects on local residents                                                                                                                                       | 5           | There are sufficient car parking facilities on site.                                                                                                                                                                                                                                                                                                                                             |
| T5        | Aggressive driving, conveying, and other inconsiderate activities | Can antagonize local residents                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Site should have written policy on conduct and controls expected from drivers.<br>Drivers should drive according to the Highway Code, and should take particular care during early morning, late evening and at night.<br>Horns should not be used unless absolutely necessary | 3           | The company has produced a Driver Induction Pack for employees and a Motor Fleet Policy.<br><br>Most of the road haulage vehicles are independently owned and outside the direct control of site.                                                                                                                                                                                                |

## Environmental Audit

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s) | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                    | Audit Score | Audit Comments                                                                                            |
|-----------|---------------------------------|--------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------|
| T6        | Backhaul materials              | Road Traffic                               |                                         | Where materials are being imported to a site, backhaulage should be adopted to minimise road traffic generated by the site. | 3           | No materials are imported to this site.<br>There are few opportunities for backhaulage at this operation. |

# Environmental Audit

## 6.16 WASTE MANAGEMENT

| Impact No | Source of Environmental Risk(s)    | Specific Potential Environmental Impact(s)                                                                                                                       | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                         |
|-----------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WM1       | Waste minimisation                 | Minimising the amount of waste disposed to landfill can cut bottom line cost and reduce environmental risk                                                       | All waste management and transfers should be in accordance with the Duty of Care.<br>Waste should be kept in a suitable container that prevents it escaping including as a result of vandalism.<br>It should also prevent rain water infiltration of the facility as this could result in pollutants being 'leached out'.<br>Waste storage facilities should be on areas of hard standing away from surface water drains and water courses.<br>Waste should only be transferred to carriers licensed to take the particular type of waste being consigned. All transfer notes should be retained for a minimum of 2 years.<br>Special waste i.e. material that is considered difficult to treat, keep or dispose of, should be managed in accordance with the special waste regulations. Categories of special waste should not be mixed and special waste should not be mixed with general controlled waste.<br>Special waste should be stored in suitable containers. | With all waste look to apply the waste hierarchy:<br>1. Reduce the amount of waste<br>2. Re-use as much as possible<br>3. Recycle<br>4. Dispose responsibly to landfill<br><br>Operators must develop an appropriate waste management plan for all non saleable arisings from the workings.<br>Use uncontaminated mineral waste for landscaping.<br>Try to vegetate waste heaps.<br>Ensure that waste mineral working material is stored within the site and that it is located in an area to reduce visual intrusion to sensitive properties.<br>Where practical ensure it is contained within the sites water management system so that run off is subject to the same controls as other water on the site. | 4           | Types of waste generated at the site include:<br>Canteen, weighbridge and office waste in wheeltie<br>Scrap steel on an occasional basis<br>Oily wastes/filters in relatively small quantities<br>Batteries in limited numbers.<br>There is no waste minimisation programme in place.                                                                                  |
| WM2       | Mineral working waste              | Poorly stored and managed mineral working waste can cause nuisance (through dust and intrusion into visual amenity. It may also cause pollution if contaminated. | Waste should only be transferred to carriers licensed to take the particular type of waste being consigned. All transfer notes should be retained for a minimum of 2 years.<br>Special waste i.e. material that is considered difficult to treat, keep or dispose of, should be managed in accordance with the special waste regulations. Categories of special waste should not be mixed and special waste should not be mixed with general controlled waste.<br>Special waste should be stored in suitable containers.                                                                                                                                                                                                                                                                                                                                                                                                                                                | Operators must develop an appropriate waste management plan for all non saleable arisings from the workings.<br>Use uncontaminated mineral waste for landscaping.<br>Try to vegetate waste heaps.<br>Ensure that waste mineral working material is stored within the site and that it is located in an area to reduce visual intrusion to sensitive properties.<br>Where practical ensure it is contained within the sites water management system so that run off is subject to the same controls as other water on the site.                                                                                                                                                                                | 4           | All material offloaded from sand barges is processed through the sand classification plant to produce useful products. Some very fine silty material is returned to Lough Neagh via the discharge from the sand plant. Material from the oversize screen is stockpiled for sale. Any fine silty sand which is not returned to Lough Neagh is also stockpiled for sale. |
| WM3       | Waste containers                   | Inadequate waste containers may allow waste to escape into the environment via natural processes or through vandalism.                                           | Waste regulations. Categories of special waste should not be mixed and special waste should not be mixed with general controlled waste.<br>Special waste should be stored in suitable containers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Waste containers should be robust and suitable for the material to be stored in them. They should prevent waste escaping into the environment and should not allow water to leach out pollutants. They should deter vandalism i.e. be lockable or be located in a secure area.                                                                                                                                                                                                                                                                                                                                                                                                                                | 4           | 1 wheeltie bin provided at weighbridge. Double skinned tank is provided for bilge waste oil. Waste oil filters are kept in drums in garage workshop. Drums are provided for oily rags and contaminated absorbent materials.                                                                                                                                            |
| WM4       | Siting of waste storage facilities | Facilities stored on permeable ground or near surface water systems will                                                                                         | Waste regulations. Categories of special waste should not be mixed and special waste should not be mixed with general controlled waste.<br>Special waste should be stored in suitable containers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Waste facilities should be stored on hard standing of sound integrity, away from surface water systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3           | No flammable waste located next to buildings.                                                                                                                                                                                                                                                                                                                          |

# Environmental Audit

| Impact No | Source of Environmental Risk(s)                                                                      | Specific Potential Environmental Impact(s)                                                                                                                                                                                                                                                                                                                                                                                                                                  | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                               | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WM5       | Waste management / carriers licences (As & when the Waste Management Licensing regime is introduced) | reduce the length of the pollution pathway and increase the probability of pollution being caused.<br>The Duty of Care and Special Waste regulations place an obligation on consignors to ensure that third parties are competent and will manage waste on their behalf in accordance with regulations. Unlicensed contractors may not adhere to the regulations and waste may cause pollution e.g. fly tipping. This could in turn result in prosecution of the consignor. |                                         | Flammable waste should not be sited next to buildings.<br><br>Ensure all waste management contractors and carriers used are licensed to manage the wastes that are to be consigned.<br>Obtain copies of their licences. Verify licenses with the regulator.<br>Ensure a waste management licence is gained for any process that may require licensing. If the process is exempt ensure there is written confirmation of the exemption. | 3           | The Environmental Manager maintains records of licensed contractors and carriers at the head office. These records are not available at site. Carriers' Licences registration details held and checked on EHS Registered Carriers Database:<br>Mc Quillan Envirocare Ltd. Reg. No. ROC 632<br>Thompson Recycled Oil Reg. No. ROC 141<br>Thomas Hamill & Sons Reg. No. ROC 265<br>Irish Waste Services Ltd Reg. No. ROC 210<br>ENVA (NI) Ltd Reg. No. ROC 146                                                                                         |
| WM6       | Waste transfer notes and consignment notes                                                           | Correctly completed controlled waste transfers and consignment notes detail what wastes have been consigned. They provide valuable evidence in proving compliance with the regulations.                                                                                                                                                                                                                                                                                     |                                         | Ensure controlled waste transfer notes and consignment notes are collected.<br>Ensure they are completed correctly, including an accurate description of waste consigned.<br>Ensure that the description adequately covers all the waste types in the skip.<br>Retain transfer notes for a minimum of 2 years and consignment notes for a minimum of 3 years.                                                                          | 4           | The production manager maintains records for waste transfer notes at the local area office. These records are not available at site. Sample of Transfer Notes held:<br>Lisburn City Council for period 01/06/07 and 31/05/08 for wheelie bins for canteen and general office EWC200301. Copy for period 2009/10 not available at local office.<br>Irish Waste dated 8/5/09 ref. DA5047137 descriptions and EWCs attached. Irish Waste dated 8/1/09 ref. DA5046677 descriptions and EWCs attached.<br>List not attached for DA5046696 dated 22/01/09. |

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| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                                                                                              | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                           | Audit Score | Audit Comments                            |
|-----------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------|
| WM7       | Waste segregation               | Failure to segregate waste could result in Special waste being co-disposed with non-special waste in a facility not able to cope with hazardous material. This may lead to contamination and pollution. |                                         | Special waste should be handled and stored separately from non-special controlled waste.<br>Different categories of special waste should not be mixed.<br>Ideally active and inactive wastes should be segregated. | 3           | Wastes are handled and stored separately. |

Environmental Audit

ALCA 137

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                       |                                              |                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------|
| <b>Name of Site</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sandy Bay Plant                                                       | <b>Date of Audit</b>                         | 28 <sup>th</sup> , 29 <sup>th</sup> & 30 <sup>th</sup> January 2008 |
| <b>Name of Operating Company</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Northstone (NI) Ltd.<br>Concrete Division                             | <b>Names of Auditees</b>                     | [Redacted], Environmental Manager<br>[Redacted], Production Manager |
| <b>Address of Site</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sandybay Site, 19 Shore Road, Upper Ballinderry, Co. Antrim, BT28 2LF |                                              |                                                                     |
| <b>Description of Site Operations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sand Plant                                                            |                                              |                                                                     |
| <p>The site is operated for the landing of sand, dredged by sand barge boats from Lough Neagh, and processed with water by classification plant to produce sand products. The operator does not hold a planning permission for the operations. The site operates under 'Established User Rights Prior to Introduction of 1972 Planning Order' as specified in the application form. Scott (Toomebridge) Ltd operate an Environmental Management System which is certified to BS EN ISO 14001 Certificate No. EMS 55117 with the scope described as 'Production of sand, concrete tiles, pipes and blocks'.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                       |                                              |                                                                     |
| <b>Weather</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mainly sunny with cloudy periods. Moderate cold winds.                | <b>ALCA ref. no.</b>                         | 137                                                                 |
| <b>Date of Report</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 24 <sup>th</sup> February 2008                                        | <b>Output Tonnes per annum (Approximate)</b> | Commercially confidential                                           |
| <b>Name of Auditor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | [Redacted] MLI AIEMA<br>Member of IEMA at Environmental Auditor Level | <b>Geology</b>                               | Lough Neagh Dredged Sand                                            |
| <p>The purpose of this environmental audit is to assess the level of compliance with the Aggregates Levy Credit Scheme (ALCS) Code of Practice. This report aims to record the basic environmental performance on site to enable identification of any requirements for improvement action to correct shortfalls in compliance with the Code of Practice.</p> <p>This audit has been carried out by an accredited environmental auditor. This audit follows the Aggregates Levy Audit Protocol addressing all the areas of environmental risk pertaining to the site. Since the audit protocol is generic some elements of the code are not applicable.</p> <p>The assessment of legal compliance required by the code has been addressed by the inspection of the relevant permits/licensing paperwork held by the operator at the site. This audit has relied on the site operator to advise of any relevant regulatory non-compliance or incidents that would require notification to any regulatory authority.</p> <p>The audit assessment is based on selective sampling directed by the audit protocol and therefore environmental impacts may exist which have not been identified.</p> |                                                                       |                                              |                                                                     |

## Environmental Audit

### Site Summary

- a. **Products Produced:**  
Washed sands.
- b. **Staff Numbers:**  
3 site based employees and 2 boat based.
- c. **Equipment and vehicles on site:**  
Aggregates are processed using a sand washing and classification plant. A loading shovel and excavator are normally used on site.
- d. **General observations of surrounding area e.g. Special Area of Conservation:**  
Lough Neagh Area of Special Scientific Interest (ASSI), RAMSAR and Special Protection Area (SPA) designations relate to areas along the site boundary.
- e. **Proximity of waterways close to the site:**  
The site is located adjacent to Lough Neagh
- f. **Provision of Septic Tanks or Chemical toilet:**  
Foul sewerage provision is to septic tank.

### Improvement Notices

Specific information in relation to the Improvement Notice is included in the appropriate 'Audit Comments' box. Some required improvements have been audited with consideration given to the DOE NI's revised Improvement Notice following the verification audit at this site. Not all improvements implemented have resulted in an increased audit score, notably where the improvement does not take the operating standard beyond meeting 'the basic tenet of the code' and where further actions in the future would reflect best practices within the industry.

# Environmental Audit

## Summary of Audit Scores

| 6.1 Air Quality                      |      | 6.6 Dust                     |      | 6.9 Landscape & Visual     |      | 6.11 Oil / Chemical cont.               |      | 6.15 Transport               |      |
|--------------------------------------|------|------------------------------|------|----------------------------|------|-----------------------------------------|------|------------------------------|------|
| 2005                                 | 2008 | 2005                         | 2008 | 2005                       | 2008 | 2005                                    | 2008 | 2005                         | 2008 |
| AQ1                                  | 5    | D1                           | NA   | LV1                        | 4    | OCS6                                    | 3    | T1                           | 3    |
| AQ2                                  | 5    | D2                           | 5    | LV2                        | 3    | OCS7                                    | 3    | T2                           | 3    |
| AQ3                                  | 5    | D3                           | NA   | LV3                        | NA   | OCS8                                    | 5    | T3                           | 3    |
| AQ4                                  | 4    | D4                           | NA   | LV4                        | 3    | OCS9                                    | 4    | T4                           | 5    |
| <b>6.2 Archaeology &amp; Geology</b> |      | D5                           | NA   | LV5                        | 3    | <b>6.12 Restoration &amp; Aftercare</b> |      | T5                           | 3    |
| AG1                                  | NA   | D6                           | 4    | <b>6.10 Noise</b>          |      | R1                                      | 3    | T6                           | 3    |
| AG2                                  | NA   | D7                           | NA   | N1                         | 3    | R2                                      | 3    | <b>6.16 Waste Management</b> |      |
| AG3                                  | 1    | D8                           | 3    | N2                         | NA   | R3                                      | NA   | WM1                          | 4    |
| AG4                                  | NA   | D9                           | 3    | N3                         | 4    | R4                                      | NA   | WM2                          | 4    |
| <b>6.3 Biodiversity</b>              |      | D10                          | 5    | N4                         | 4    | R5                                      | NA   | WM3                          | 4    |
| BD1                                  | 3    | <b>6.7 Energy Efficiency</b> |      | N5                         | 4    | R6                                      | NA   | WM4                          | 3    |
| BD2                                  | 4    | EE1                          | 3    | N6                         | 4    | <b>6.13 Secondary Aggregate</b>         |      | WM5                          | 3    |
| BD3                                  | 3    | EE2                          | 4    | N7                         | 4    | SA1                                     | 3    | WM6                          | 4    |
| BD4                                  | 3    | EE3                          | 4    | N8                         | 3    | SA2                                     | 3    | WM7                          | 3    |
| <b>6.4 Blasting</b>                  |      | EE4                          | 4    | N9                         | 4    | <b>6.14 Surface Waters</b>              |      |                              |      |
| BL1                                  | NA   | EE5                          | 3    | N10                        | 4    | SW1                                     | 3    |                              |      |
| BL2                                  | NA   | EE6                          | 4    | N11                        | NA   | SW2                                     | 3    |                              |      |
| BL3                                  | NA   | <b>6.8 Groundwater</b>       |      | N12                        | 4    | SW3                                     | 3    |                              |      |
| BL4                                  | NA   | GW1                          | 3    | <b>6.11 Oil / Chemical</b> |      | SW4                                     | 4    |                              |      |
| <b>6.5 Community</b>                 |      | GW2                          | 4    | OCS1                       | 3    | SW5                                     | 3    |                              |      |
| C01                                  | 3    | GW3                          | 4    | OCS2                       | 3    | SW6                                     | 3    |                              |      |
| C02                                  | 4    | GW4                          | NA   | OCS3                       | 2    |                                         |      |                              |      |
| C03                                  | 5    | GW5                          | NA   | OCS4                       | NA   |                                         |      |                              |      |
| C04                                  | 3    |                              |      | OCS5                       | 3    |                                         |      |                              |      |

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## 6.1 AIR QUALITY (EXCLUDING DUST)

| Impact No | Source of Environmental Risk(s)            | Specific Potential Environmental Impact(s)                                                                                                                                                                                                              | General Possible Improvement Measure(s)                                                                                                                                                                                                                             | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                          | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AQ1       | Operating prescribed processes             | Release of emissions without or in breach of an emit for an authorised process is a criminal offence                                                                                                                                                    | Avoid emissions to air. Avoid producing dark smoke, odours and other potential nuisance. If you operate a prescribed process under LAPC then ensure that the site has obtained the appropriate permit and that it is not in breach of any of the conditions imposed | Ensure a permit has been acquired and that the site is not in breach of the conditions of the permit. Additional measures to upgrade permit conditions could include monitoring stack emissions with continuous stack monitors.<br>Do not burn material on site and avoid the production of grey and dark coloured smoke on site. | 5           | No prescribed processes are carried out at this site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| AQ2       | Burning of material                        | Burning of material and the production of smoke represent local air pollution. This has a detrimental effect on local air quality and will also contribute to global issues such as climate change. It may also represent a nuisance to local residents |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                   | 5           | No evidence of burning seen on site. Environmental manager advised that no burning of waste is carried out on site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| AQ3       | Production of noxious and offensive gasses | Release of noxious or offensive gasses may have a detrimental effect on local air quality and may constitute a nuisance to local residents                                                                                                              |                                                                                                                                                                                                                                                                     | Avoid the production of noxious and offensive gasses.                                                                                                                                                                                                                                                                             | 5           | The are no significant gasses produced on site. There is 1 diesel generator used as a pump engine for discharge of sand from boats which is used for up to 1 hour at a time. Boats are normally unloaded 4 times per day but this may be increased to meet production demands. The generator was new in July 2003 and is serviced every 250 hours. The quantity of emission is very small and has no perceived impact on local air quality or residents.                                                                                                                                                                                                                                                                                                                                                                                                          |
| AQ4       | Road and site vehicles                     | Exhaust fumes from diesel engines can reduce local air quality                                                                                                                                                                                          |                                                                                                                                                                                                                                                                     | Ensure both site and off-site vehicle fleet is regularly maintained.                                                                                                                                                                                                                                                              | 5           | The loading shovel (Volvo L110E) is 2 years old and will be serviced by Pat O'Donnell & Co. Ltd. at 500 hour intervals on a 3 year service and maintenance agreement. The first service at 100 hours was carried out on 8/8/5.<br><br>The excavator (Fiat Hitachi) is approximately 12 years old and will be serviced annually by TBF Thompson with maintenance carried out by company filters.<br><br>The site is normally supplied by 2 diesel engine sand barge boats, the William James (1968) and the Rams Island (1972), both of which are serviced at 250 hour intervals by R A Phillips with maintenance carried out by company filters. Records of maintenance work are kept.<br><br>New engines have been filled within the last 12 years. Most of the road haulage vehicles are independently owned and outside the direct control of site. There is 1 |

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| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s) | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s) | Audit Score | Audit Comments                                                                                                                                                        |
|-----------|---------------------------------|--------------------------------------------|-----------------------------------------|------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |                                 |                                            |                                         |                                          |             | company owned truck serviced and maintained by TBF Thompson and 2 owner driver trucks independently serviced and maintained as required by their contract agreements. |

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### 6.2 ARCHAEOLOGY AND GEODIVERSITY

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                                                                                                                      | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                    | Specific Possible Improvement Measure(s)                                                                                                                                       | Audit Score | Audit Comments                                                                                                                                                                                                                                                                      |
|-----------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AG1       | Response plan                   | Loss or damage of finds incurred during operation                                                                                                                                                                               | Particular care should be taken when extracting alluvium. Care should also be taken to ensure that newly discovered remains, and the areas in which they are found, are stable and safe areas in which archaeologists can work. The restoration plan should be modified to take account of new discoveries | A Response Plan should be in place in case archaeological remains or important geological deposits are discovered - the reporting of archaeological finds is required by law.  | NA          | No land based extraction activities take place on site. There are no activities carried out that require any excavations of virgin ground.                                                                                                                                          |
| AG2       | Stripping of soils              | Can be particularly bad in wet conditions, and when soil is stripped down to clean gravel                                                                                                                                       |                                                                                                                                                                                                                                                                                                            | Avoid wet conditions if possible. In areas of recognised archaeological interests subsoils may be left exposed for an agreed period of time to allow inspection by specialist. | NA          | No stripping of soils is carried out on site.                                                                                                                                                                                                                                       |
| AG3       | Mineral extraction              | Loss or damage to geological or palaeontological features of interest                                                                                                                                                           |                                                                                                                                                                                                                                                                                                            | Instruction/training of site staff to raise awareness of potential features. Implement Response plan for any finds.                                                            | NA          | Considered to be Not Applicable by DOE NI at verification visit as it is a processing site and there is no soil stripping. Mineral extraction is from the bed of Lough Neagh and there is no knowledge of any geological or palaeontological features of interest within the Lough. |
| AG4       | De-watering operations          | Can dry out adjacent areas which may contain remains which are only preserved because they are submerged. Any change from this may initiate rapid decay, and the consequent damage / destruction of the archaeological resource |                                                                                                                                                                                                                                                                                                            | Artificial watering, creation of buffer zones or wet working may be instigated.                                                                                                | NA          | There is no land based dewatering carried out within the site.                                                                                                                                                                                                                      |

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## 6.3 BIODIVERSITY

| Impact No | Source of Environmental Risk(s)           | Specific Potential Environmental Impact(s)                                                                                                                                                             | General Possible Improvement Measure(s)                                                                                                                                                                                                           | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                    | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BD1       | Biodiversity related planning constraints | Failure to adhere to biodiversity planning constraints could result in damage to habitats identified as being valuable                                                                                 | Planning constraints linked to biodiversity should be adhered to rigorously. Areas of high ecological value should be fenced off and staff made aware. The site should be continually monitored for the possible occurrence of protected species. | Adhere to planning constraints and avoid degrading designated areas. Areas to be marked off and access for recording and management provided.<br>Review site for areas of potential value. Agree access and management plans.                                                                               | 3           | There are no biodiversity related planning constraints. No knowledge of any designated areas within site. It is known that the Lough Neagh Area of Special Scientific Interest (ASSI), RAMSAR and Special Protection Area (SPA) designations relate to areas along the site boundary. Details of the designations are addressed in the QPA Biodiversity Report dated January 2008. No areas have been marked off yet.                                                                                                                 |
| BD2       | Non-designated sites                      | Valuable, non-recorded sites may be lost if not identified and protected                                                                                                                               |                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                             | 4           | A biodiversity site review was carried out on 17 <sup>th</sup> January 2007 by [redacted] QPA Biodiversity officer. A report has been prepared to identify habitats and species within the landholding and provide guidance on management. A site review was carried out and a landscape management plan produced in June 1998 but will be superseded by the Biodiversity management plan.                                                                                                                                            |
| BD3       | Protected species                         | Damage to protected species and their habitat represents a detrimental impact upon biodiversity and could also contravene The Conservation (Nature Habitats etc.) Regulations (Northern Ireland) 1985. |                                                                                                                                                                                                                                                   | Adhere to any planning constraint imposed with regard to protected species. Monitor the site. Ensure that staff are aware of the key protected species that may occur on site. Should protected species be found, avoid disturbing the habitat and seek guidance from the Environment and Heritage Service. | 4           | No planning constraints imposed with regard to protected species. Sand Martins are known to frequent the site and site staff are aware that their nests should not be disturbed when occupied. The Biodiversity review has identified sand martin activities.<br>The operator has introduced EMS Procedure EP 19 – 'Archaeology, Geology & Biology Response Plan', dated January 2008.<br>Toolbox talks are planned to take place during 2008. QPANI Biodiversity Advice note for Sand Martins has been posted in weighbridge office. |
| BD4       | Use of Native Species                     | Use of native species in planting can contribute positively to biodiversity                                                                                                                            |                                                                                                                                                                                                                                                   | During restoration planning or landscape works, native species for all planting should be used if appropriate. Contact the Environment & Heritage Service for further advice.                                                                                                                               | 3           | No native species have been planted. Much of the established vegetation is the result of natural regeneration in previously disturbed areas. The landscape management plan produced in June 1998 identifies areas for planting of native species but will be superseded by the Biodiversity management plan.<br>Some non native hedge species have been planted.<br>Planting of deciduous species within close proximity of sand stockpiles is avoided to minimise the risk of contamination with leaves in autumn.                   |

## Environmental Audit

### 6.4 BLASTING

| Impact No | Impact of Blasting         | Specific Potential Environmental Impact(s)                                                                                                                                                                                                                                                                                                                                   | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Audit Score | Audit Comments                           |
|-----------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------|
| BL1       | Ground vibration           | Can cause damage to property, ranging from minor cosmetic cracks to major structural damage                                                                                                                                                                                                                                                                                  | <p>The following might be activities mandated by planning conditions:</p> <ul style="list-style-type: none"> <li>Limits on the days per year when blasting occurs</li> <li>Limits on the number of blasts that occur in a day</li> <li>Limits on the timing of blasts</li> <li>Audible warnings prior to blasting</li> <li>Methods for minimizing air overpressure</li> <li>Monitoring to ensure limits are not exceeded</li> </ul> <p>These can, of course, be undertaken voluntarily, as well as:</p> <ul style="list-style-type: none"> <li>Ensuring adequate separation distances between the working face and any property, to remove risk of slope failures affecting such property.</li> <li>Personally informing local residents prior to blasting, particularly if blasting activities are infrequent</li> <li>Carrying out face surveys prior to blasting to double-check. If necessary, revise blast design following inspection</li> <li>Temporarily closing nearby roads if necessary</li> <li>If possible, directing</li> </ul> | <p>Scheme of vibration monitoring. Make results available to interested parties. (see Code of Practice - may be mandated by planning condition)</p> <p>Limits on ground vibrations received at noise or vibration sensitive properties</p> <p>Noise and vibration are intrinsically linked, and are dealt with together in this section</p> <p>Prepare a written scheme of air overpressure control (see Code of Practice for details)</p> <p>Cover detonation cord(s) (noise becomes a dull 'thud' rather than a sharp 'crack')</p> | NA          | No blasting is carried out at this site. |
| BL2       | Air overpressure and noise | Air overpressure is blast energy transmitted through the air as pressure waves. It can be felt by humans, but is entirely safe. However, it can cause windows to rattle and ornaments to shake in houses<br>Noise can be quite loud, often in the form of a sharp 'crack', but impacts are temporary. Noise can also adversely affect wildlife (particularly breeding birds) | <ul style="list-style-type: none"> <li>Ensuring adequate separation distances between the working face and any property, to remove risk of slope failures affecting such property.</li> <li>Personally informing local residents prior to blasting, particularly if blasting activities are infrequent</li> <li>Carrying out face surveys prior to blasting to double-check. If necessary, revise blast design following inspection</li> <li>Temporarily closing nearby roads if necessary</li> <li>If possible, directing</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Filter dust from drill rigs</p> <p>Bag and remove drilling dust from blast zone</p> <p>Use stemming material (angular chippings)</p> <p>Can never be completely eliminated, but can be minimised by:</p> <ul style="list-style-type: none"> <li>Preparing a written specification for blasting and following it exactly</li> <li>Using sufficient stemming</li> <li>Using screen nets if necessary</li> <li>Using toe rather than collar priming/detonation</li> </ul>                                                            | NA          |                                          |
| BL3       | Dust                       | Blasting creates large piles of rock, which fall to the ground and create dust. Drilling holes for explosives also causes dust.                                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>Ensuring adequate separation distances between the working face and any property, to remove risk of slope failures affecting such property.</li> <li>Personally informing local residents prior to blasting, particularly if blasting activities are infrequent</li> <li>Carrying out face surveys prior to blasting to double-check. If necessary, revise blast design following inspection</li> <li>Temporarily closing nearby roads if necessary</li> <li>If possible, directing</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Filter dust from drill rigs</p> <p>Bag and remove drilling dust from blast zone</p> <p>Use stemming material (angular chippings)</p> <p>Can never be completely eliminated, but can be minimised by:</p> <ul style="list-style-type: none"> <li>Preparing a written specification for blasting and following it exactly</li> <li>Using sufficient stemming</li> <li>Using screen nets if necessary</li> <li>Using toe rather than collar priming/detonation</li> </ul>                                                            | NA          |                                          |
| BL4       | Flyrock                    | Flyrock is the unexpected projection of debris beyond blast zone, caused by a number of factors. It can represent a danger to human health and safety, and if it carries beyond the site boundary, or injures someone, the event must be reported to the Health                                                                                                              | <ul style="list-style-type: none"> <li>Ensuring adequate separation distances between the working face and any property, to remove risk of slope failures affecting such property.</li> <li>Personally informing local residents prior to blasting, particularly if blasting activities are infrequent</li> <li>Carrying out face surveys prior to blasting to double-check. If necessary, revise blast design following inspection</li> <li>Temporarily closing nearby roads if necessary</li> <li>If possible, directing</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Filter dust from drill rigs</p> <p>Bag and remove drilling dust from blast zone</p> <p>Use stemming material (angular chippings)</p> <p>Can never be completely eliminated, but can be minimised by:</p> <ul style="list-style-type: none"> <li>Preparing a written specification for blasting and following it exactly</li> <li>Using sufficient stemming</li> <li>Using screen nets if necessary</li> <li>Using toe rather than collar priming/detonation</li> </ul>                                                            | NA          |                                          |

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| Impact No | Impact of Blasting | Specific Potential Environmental Impact(s)                        | General Possible Improvement Measure(s)                                                                                               | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                 | Audit Score | Audit Comments |
|-----------|--------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|
|           |                    | <p>and Safety Executive. It can also cause damage to property</p> | <p>detonation away from sensitive locations</p> <ul style="list-style-type: none"> <li>• Setting up a complaints procedure</li> </ul> | <ul style="list-style-type: none"> <li>• Correctly training personnel</li> <li>• Ensuring drill holes are accurate and avoid concentration of explosives at a particular point (e.g. corners)</li> <li>• Filling natural rock cavities if they are visible and if practicable</li> </ul> |             |                |

## Environmental Audit

### 6.5 COMMUNITY

| Impact No | Source of Environmental Risk(s)       | Specific Potential Environmental Impact(s)                                                                                                                                                                                                                                  | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                  | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                               | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C01       | Dedicated contact                     | Failure to provide a dedicated named contact could result in complainants contacting regulators.                                                                                                                                                                            | Provide a dedicated contact and phone number, which the local community can contact at any time.<br>Encourage regular liaison between the site and the local community.<br>Provide advance notice to any residents that may be affected by any activities that may cause nuisance.<br>Consider holding open days and encouraging school visits to educate the community. | Provide a dedicated contact name and number for the local community.<br>Try to make the contact available throughout all operational hours. Publicise this name and number<br>Write and adhere to a complaints procedure that details the complaints process from the initial contact through to resolution.<br>Ensure the procedure prescribes timescales for response.<br>Log all complaints in detail.<br>Record corrective actions taken and the eventual outcome. | 3           | Sign at entrance includes a contact telephone number for the site but does not include a dedicated contact name. In the interests of personal safety for site managers it is company policy not to include the manager's name on the entrance sign. This policy has been accepted by DOE NI.<br><br>The company operates EMS Procedure 9.3 for External Communications which requires all communications to be forwarded to the Environmental Manager who maintains a record of all correspondence and associated records for resolution.<br><br>The company maintains a 'Communications Log' EPR041 which is maintained by the Environmental Manager in electronic format. Records are kept of associated correspondence and resolution actions.<br><br>Log from June 2008 onwards inspected at audit. |
| C02       | Documented complaints procedure       | Adoption of a complaints procedure can help to ensure that complaints are handled in a uniform fashion and within specified timescales.                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C03       | Complaints and corrective action log  | Failure to log complaints and corrective actions may result in unresolved issues and an inability to assess effectiveness of outcomes. It also provides an audit trail to prove that complaints have been taken seriously and that appropriate corrective action was taken. |                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C04       | Educational initiatives and open days | Educating local communities can help to improve the perspective of local residents towards aggregates and there extraction and processing. It can help build relations and inspire confidence in the management of a site.                                                  |                                                                                                                                                                                                                                                                                                                                                                          | Consider organising open days and conducting educational visits by local schools and colleges.<br>Provide opportunities for access of interested parties.                                                                                                                                                                                                                                                                                                              | 3           | An educational visit for St Marys Primary School was conducted in 2006 and 2007 at the Hutchinsons site to show sand extraction/processing operations and to the Airfield site in 2006 to show finished products in the life factory. The company also held a careers day at Randalstown for local schools.<br><br>The company is happy to provide opportunities for access to interested parties.                                                                                                                                                                                                                                                                                                                                                                                                      |

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## 6.6 DUST (EXCLUDING BLASTING DUST)

| Impact No | Source of Environmental Risk(s)   | Specific Potential Environmental Impact(s)                                                                                                                             | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                            | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Audit Score | Audit Comments                                                                                                 |
|-----------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------|
| D1        | Operating Prescribed Processes    |                                                                                                                                                                        | <p>If possible, locate dust-generating activities where:</p> <ul style="list-style-type: none"> <li>Sensitive receptors such as houses are upwind from the dust source</li> <li>The need to transport minerals around the site is minimised</li> <li>Maximum protection can be obtained from the local topography and woodland</li> </ul> <p>Schedule major dust-generating activities to avoid extremely dry or windy weather</p> | <p>Ensure current permit is in place for all prescribed processes. Ensure all operations meet the conditions of the permit.</p> <p>Minimise speed of conveyors and drop heights to minimise likelihood of dust spread</p> <p>Install wind guards, covers on high and steep conveyors, belt cleaning, and dust collection systems</p> <p>Regularly clean and maintain conveyors</p> <p>Where problems arise introduce control measures such as water misting; wetting of mineral feed as practicable; enclosing plant and fitting dust extraction systems.</p> <p>To control dust, plant should have sealed silos for concrete with automatic alarms to prevent overfilling, sealed mixing areas with dust proof covers and dust extraction filters etc</p> | NA          | No prescribed processes are carried out at this site.                                                          |
| D2        | Conveyor transfer of minerals     | Dust levels from conveyor transfer activities are often the most significant on mineral extraction sites, particularly because of their continuous, long term, nature. | <ul style="list-style-type: none"> <li>Bowlers</li> <li>Hand-held pumps</li> <li>Water trucks with water cannons</li> <li>Automated water atomizing sprays</li> </ul> <p>Install and maintain on plant dust suppression technology recommended by manufacturers</p>                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5           | There are no conveyors used within the sand classification plant and all sand is processed in a wet condition. |
| D3        | Mineral crushing                  |                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA          | No mineral crushing is carried out on site.                                                                    |
| D4        | Batching Plant                    |                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA          | There is no concrete batching process carried out at this site.                                                |
| D5        | Removal of topsoil and vegetation |                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                    | Avoid wetting of soils as this can cause damage to soil structures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA          | There are no topsoil or vegetation removal operations carried out at this site.                                |

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| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                              | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|---------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D6        | Mineral stockpiles and loading  |                                                                                         |                                         | Mineral stockpiles are likely subject to daily addition and reclaim and control measure where excess generation occurs. Reduce dust generation-through storage within sheltered bays (potentially three sided bays with roof), use of atomising sprays or regular wetting, or locate stocking and loading area remote from sensitive receptors. Where stockpiles represent longer term features, consideration should be given to sealing and protection using chemical or physical means. | 4           | Sand stockpiles are very wet when first formed under sand towers and have to drain so that sand is dry enough to be transported. The normal moisture content of the sand in stockpiles after draining is approximately 5%. No sensitive receptors have been identified on the basis of no complaints have been received.                                                                                      |
| D7        | Soil and Overburden dump        | Exposed soil and overburden can cause dust and be subject to erosion.                   |                                         | All soils and overburden dumps that will be in place longer than 6 months should be seeded as quickly as is practicable.                                                                                                                                                                                                                                                                                                                                                                   | NA          | No soil or overburden dumps have been created on site.                                                                                                                                                                                                                                                                                                                                                        |
| D8        | Haul roads                      | Vehicles can carry material onto highways and dust can be emitted from uncovered loads. |                                         | Install wheel washing equipment<br>Cover loaded vehicles                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3           | There is no wheel wash equipment on site. Loaded vehicles are not covered. The road in the vicinity of the entrance is cleaned with a road sweeper on a regular basis approximately every 3 weeks. DOE NI Improvement Notice requires: Ensure there is no carry over from vehicles leaving the processing site. Ensure all vehicles leaving site are correctly loaded to prevent spillage onto road surfaces. |
| D9        | Internal Haul Roads             | Can be a major source of dust                                                           |                                         | Water haul roads with a dedicated bowser as required. Consider installing sprinklers in areas likely to be operational for long periods.                                                                                                                                                                                                                                                                                                                                                   | 3           | Internal haul routes around the plant area are covered with sandy material which is kept damp in locations where water drains from sand stockpiles. There is no water bowser or sprinkler system on site. Vehicle movement are intermittent and depend on sales volumes.                                                                                                                                      |
| D10       | Mobile Plant                    | Dust rise                                                                               |                                         | Exhausts on mobile plant should not be directed downwards as this can cause dust rise on roadways and unsurfaced areas.                                                                                                                                                                                                                                                                                                                                                                    | 5           | No vehicles with exhaust directed downwards.                                                                                                                                                                                                                                                                                                                                                                  |

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## 6.7 ENERGY EFFICIENCY

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                                                                                                | General Possible Improvement Measure(s)                                                                                                                                                                                 | Specific Possible Improvement Measure(s)                                                                                                                                                                                                 | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EE1       | Purchasing of plant             | Purchasing equipment without assessing energy consumption can result in acquisition of inefficient plant and equipment through out the life of the equipment                                              | Always seek to use the most efficient equipment and plant possible. Only operate equipment when it is needed. Regularly service and maintain plant and raise awareness of the need for energy efficiency amongst staff. | Consider efficiency of plant and equipment as part of the purchasing criteria. This can lead to reduced whole life impacts and costs. E.g. Motors can cost up to 100 times as much to run over ten years as their initial purchase cost. | 3           | Boat and generator engines have been replaced within the last 7 years. With environmentally friendly engines. The company policy statement includes a commitment to review energy efficiency measures when plant is refurbished. Purchasing of major new plant such as loading shovels is carried out by parent company.<br><br>Energy efficiency is considered for purchase of motors as this provides for efficiency in operating costs. An electrical contractor (GES Group) is used for electrical maintenance services and who also advise on efficiency of motors when replacements are required.<br><br>A summary of energy usage is maintained and monitored by a company engineer. The Energy, Fuel & Water Usage for all of the company sites, includes data from 2003 onwards and provides information on energy usage and CO <sub>2</sub> per tonne of production to allow comparisons between sites. An Energy Management Action Plan has been prepared for 2008. |
| EE2       | Monitoring energy consumption   | Monitoring is essential to managing energy consumption. Failure to monitor can result in ineffective identification of potential energy savings and therefore opportunities to reduce the impact and cost |                                                                                                                                                                                                                         | Establish a monitoring programme to chart energy consumption data for the site. This can be used to identify areas of high-energy consumption, potential savings and a baseline from which improvements can be made.                     | 4           | There is one compressor which is used in the garage workshop. The compressor is used with a grease gun and is only used on an occasional basis. The hose is relatively short.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| EE3       | Compressed Air                  | Compressed air is expensive to generate in terms of impact and cost. Compressors are typically only 10% efficient.                                                                                        |                                                                                                                                                                                                                         | Check air compressors and lines routinely for leaks. Avoid unnecessary long runs in air lines. Only operate compressors when required.                                                                                                   | 4           | Motors are replaced as and when necessary. An electrical contractor (GES Group) is used for electrical maintenance services and who also advise on efficiency of motors when replacements are required. There are no conveyors used within the sand classification plant and all sand is processed in a wet condition.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| EE4       | Motors and Drives               | Motors are large consumers of energy. They account for up to two thirds of electrical energy in industry.                                                                                                 |                                                                                                                                                                                                                         | Use high efficiency motors. Switch off motors when not in use. Reduce motor speeds where possible - Variable Speed Drives can save 30 - 40%.                                                                                             | 4           | The loading shovel (Volvo L110E) is 2 years old and is serviced by Pat O'Donnell & Co. Ltd. at 500 hour intervals on a service and maintenance agreement.<br><br>The excavator (Fiat Hitachi) is approximately 12 years old and is serviced annually by TBF Thompson with maintenance carried out by company fitters.<br><br>The site is normally supplied by 2 diesel engine sand barge boats, the William James (1968) and the Rams Island (1972), both of which are serviced at 250 hour intervals by R A Phillips with maintenance carried out by company fitters.<br><br>Records of maintenance work are kept. New engines have been fitted within the last 12 years.                                                                                                                                                                                                                                                                                                     |
| EE5       | Transport                       | Consumption of fuels by vehicles depletes fossil fuels and cause associated emissions, they may also constitute a nuisance                                                                                |                                                                                                                                                                                                                         | Regularly service and maintain vehicles. Try to reduce the number of journeys required through planning. Raise awareness amongst staff about driving techniques for efficiency.                                                          | 4           | Most of the road haulage vehicles are independently owned and outside the direct                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Environmental Audit

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                             | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s) | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EE6       | Servicing and maintenance       | Poorly maintained plant will be less efficient and consume more energy to carry out the same task than efficient well maintained plant |                                         | Regularly service and maintain plant.    | 4           | <p>control of site. There is 1 company owned truck serviced and maintained by TBF Thompson and 2 owner driver trucks independently serviced and maintained as required by their contract agreements.</p> <p>There is no planning to try to reduce the number of journeys required. Induction training includes awareness of driving techniques for efficiency.</p> <p>Fixed plant is subject to regular visual inspections by site staff and maintained as and when necessary.</p> |

# Environmental Audit

## 6.8 GROUNDWATER

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                                                                         | General Possible Improvement Measure(s)                                                                                                                                                                                                     | Specific Possible Improvement Measure(s)                                                                                                                                     | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GW1       | Monitoring                      | Failure to monitor the effects on groundwater will result in late detection of any potential issues preventing early identification and implementation of appropriate improvement. | Assess the hydrology of the site before commencing operations. Continually monitor groundwater levels and also affects of abstractions on agriculture, ecology and the land.<br>Prevent the infiltration of pollutants into the groundwater | Sites should identify and regularly monitor sensitive receptors and record pertinent data.                                                                                   | 3           | The company commissioned a Preliminary Environmental Review Report, which was produced in July 1998. The report described the site (along with Ballyginniff & Hutchinsons) as in High Risk areas where oil spills could leach into the underlying soils and that the soils are of high leaching potential over moderately permeable rock. As the site is located adjacent to Lough Neagh the operator is aware of the sensitivity of the site's location. There is no monitoring of groundwater levels carried out principally as there is no land based extraction.<br>The site is not aware of any specific sensitive receptors. |
| GW2       | Abstraction                     | Over abstraction may cause a significant cone of depression and adversely affect the hydrology of an aquifer. It will also provide a pathway to an aquifer for pollutants          |                                                                                                                                                                                                                                             | EHS Water Management Unit should be consulted on maximum abstraction levels. Operators should use minimisation techniques to reduce below this level.                        | 4           | Water is drawn from Lough Neagh to facilitate pumping of sand from barges and into sand classification plant. Any water not retained within sand product stockpiles drains across the yard and is mostly directed to return to Lough Neagh.<br>Application for appropriate Abstraction licensing as per the Water Abstraction and Impoundment (licensing) Regulations 2006 has been submitted with information on proposed maximum abstraction levels.                                                                                                                                                                             |
| GW3       | Pollution of Groundwater        | Pollutants entering the groundwater could pollute important water resources.                                                                                                       |                                                                                                                                                                                                                                             | Have appropriate spill kits in areas of risk.<br>Respond to any spill as quickly as possible, contain the spill and remove pollutants through use of appropriate spill kits. | 4           | Spill kit materials are held on site and include booms (large and small), mats and absorbent rolls.<br>These are stored in the garage workshop and electrical switch building.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| GW4       | Dewatering                      | Dewatering can adversely affect the Hydrology of an area                                                                                                                           |                                                                                                                                                                                                                                             | Avoid dewatering.<br>If dewatering is unavoidable dewater progressively in cells, monitoring effects continuously.<br>Reduce inflow of water by sealing.                     | NA          | No dewatering is carried out within the site. The level of water in Lough Neagh is managed by DoE (NI).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| GW5       | Aquifers                        | Removal of filter layers and failure to provide for sufficient recharge may damage a valuable water resource.                                                                      |                                                                                                                                                                                                                                             | Leave effective filter layers of aquifers and provide adequate opportunity for recharge of aquifers.                                                                         | NA          | There are no extraction activities within the site and as such no aquifer filter layers are removed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

# Environmental Audit

## 6.9 LANDSCAPE AND VISUAL

| Impact No | Source of Environmental Risk(s)                              | Specific Potential Environmental Impact(s)                                                                         | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                          | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LV1       | Landscape Master Plan                                        |                                                                                                                    | Good site design during the planning application and operational phases can minimise impacts.<br><br>Operators should plan ahead for planting and management, direction of working, progressive restoration, and siting of processing plant.                                                                                                                                                     | Site operators should have or develop a landscape plan for the site covering the full life cycle from current operations to final restoration and closure<br><br>Consider alternative locations for tall plant - can it be located where its effects will be less visually obtrusive? If unavoidable select suitable cladding.<br><br>This may be mitigated as part of a restoration plan. Operators should seek to consult on landscaping requirements with the planning authority<br><br>Consider use of screen planting, retention of existing visual/screen features, construction and planting up of screening mounds and management of vegetation once established.<br><br>(Landscape and noise screen mounds may be combined) | NA          | A site review was carried out and a landscape management plan produced in June 1998 but has been superseded by the Biodiversity review. No extraction takes place within the site and therefore a restoration plan has not been prepared. The DOE NI has determined in the revised improvement notice that this impact is Not Applicable 'As this is a processing site and there is no extraction.'       |
| LV2       | Tall structures                                              | Introduction of features alien to the landscape can adversely affect that landscape and can cause visual intrusion | Good use can be made of existing topography, woodlands, hedges, mounds, and general site layout to screen potentially intrusive activities.<br><br>Introduced improvement measures such as screen planting, landscaping, fences, etc. can also be effective.<br><br>The site should have a 'good housekeeping' policy which seeks to keep the site tidy and well-maintained, including paintwork |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3           | The sand classification plant includes 2 towers up to approximately 15 metres tall which are located close to Lough Neagh to facilitate processing of sand directly from sand barges.<br><br>The site is located within a predominantly flat area of landscape and is not open to many significant views other than those from within the Lough.                                                          |
| LV3       | Open quarry faces, excavation voids, overburden mounds, etc. | Can involve destruction of some of the existing landscape, such as a hill, distant view or skyline                 |                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NA          | There are no extraction activities within the site and as such there are no open quarry faces, excavation voids or overburden mounds.                                                                                                                                                                                                                                                                     |
| LV4       | Site Entrances                                               | Site entrances are often the most visible part of an operations                                                    |                                                                                                                                                                                                                                                                                                                                                                                                  | Keep entrances clean with well maintained fencing and planting schemes as appropriate, signage should be well kept, roads surface cleaned, verges are kept cut and tidy and debris, litter, old plant etc removed from view.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3           | Steel gates and fencing are used to define the entrance to site.<br><br>Hedge shrubs and natural regeneration to either side of the gates is quite mature and provides a partial screen to some views into the site from the adjacent road.<br><br>The entrance appears tidy, free of litter and well maintained.<br><br>The surface of the public highway was reasonably clean at the time of the audit. |
| LV5       | Good House Keeping                                           |                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                  | Have well maintained fencing and planting schemes as appropriate, signage should be well kept, roads surface cleaned, verges are kept cut and tidy and debris, litter, old plant etc removed from view.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3           | Boundary to site defined largely by banks supporting shrubs and natural regeneration which is quite mature. This vegetation provides a degree of enclosure for the site and is keeping with the character of adjacent areas. Agricultural fencing and/or hedgerows are used for some boundaries.                                                                                                          |

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## 6.10 NOISE

| Impact No                   | Source of Environmental Risk(s)             | Specific Potential Environmental Impact(s)                                          | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                              | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N1                          | General Site Operations                     |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                      | Develop operational plans and appropriate improvement strategies to ensure noise impacts from static and mobile plant are minimised. Where they exist, noise related planning conditions will be the basis of the site control measures. Where plans do not exist they should be developed.                                                                                                                                                                                                                                                               | 3           | No operational plans or improvement strategies have been developed. No noise limits set in planning. The site operator is not aware of any complaints regarding noise.<br>The operator has adopted voluntary working hour restrictions to minimise noise impacts outside of normal working hours.                        |
| Static Plant and Operations |                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                                                                                                                                                                                                                                                                                                                          |
| N2                          | Drilling                                    | Likely to cause particular irritation to local residents                            | Incorporate buffer zones between extraction and processing activities and sensitive receptors.<br>Take advantage of natural topography and quarry faces to screen noise.<br>Install acoustic screening<br>Select low-noise plant, possibly electric-powered.<br>If possible, locate plant as far away as possible from sensitive receptors.<br>Regularly maintain plant - especially | Undertake drilling operation at times least likely to cause nuisance. Use well maintained silenced equipment. Install portable acoustic barriers if in sensitive locations.<br>Keep all draglines and conveyors well maintained and lubricated to reduce noise. Fit appropriate silencers to all diesel engines.<br>If pump operation is likely to be an issue, ensure the pump is suitably acoustically insulated. Locate away from sensitive receptors.<br>Fit appropriate silencers. If appropriate, locate plant in acoustically insulated enclosures | NA          | No drilling operations are carried out within the site.                                                                                                                                                                                                                                                                  |
| N3                          | Draglines, excavators and conveyors         | Likely to be left on overnight, so may cause particular problems                    |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4           | There are no conveyors used within the sand classification plant.<br>All mobile plant fitted with silencers. The excavator is only used on an occasional basis and is regularly serviced and maintained.                                                                                                                 |
| N4                          | Pumping                                     |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4           | The diesel powered pump used for discharging barges is located within a building near to the edge of Lough Neagh. Pumps used for abstraction and serving the sand plant are electric. All pumps are located away from any potential sensitive receptors.                                                                 |
| N5                          | Engine noise                                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4           | The diesel engine which powers the pump used for discharging barges is located within a building near to the edge of Lough Neagh. The building is not acoustically insulated but is located away from any potential sensitive receptors. The diesel engine is only used during periods when a barge is being discharged. |
| N6                          | Crushing and Screening                      | Likely to be particularly noisy and may not meet noise limits for normal operations |                                                                                                                                                                                                                                                                                                                                                                                      | Locate plant away from sensitive receptors. Make maximum use of natural topography to screen plant. Use acoustically insulated enclosures in sensitive areas.                                                                                                                                                                                                                                                                                                                                                                                             | 4           | No crushing is carried out on site.<br>The oversize screen on the feed to the sand classification plant is located near to the edge of Lough Neagh and away from any potential sensitive receptors. No complaints have been received regarding processing plant.                                                         |
| N7                          | Erection, maintenance and movement of plant |                                                                                     | Lubrication of bearings and sharpening of cutting edges.<br>Limit working hours                                                                                                                                                                                                                                                                                                      | Undertake at times least likely to cause nuisance. Where out of hours activity is necessary, avoid early starts or late working and control activities to minimise noise generation within sensitive locations.                                                                                                                                                                                                                                                                                                                                           | 4           | Maintenance works are generally carried out during normal working hours which are 7.00 am to 5.00 pm Monday to Friday and 7.00 am to Noon Saturday mornings. No complaints have been received regarding maintenance work.                                                                                                |

# Environmental Audit

| Impact No                   | Source of Environmental Risk(s)             | Specific Potential Environmental Impact(s)                | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                 | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------|-----------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mobile Plant and Operations |                                             |                                                           |                                         |                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N8                          | Trucks, dozers, scrapers, loaders -         | Likely to cause particular irritation to local residents  | Limit working hours                     | Select low-noise plant. Fit silencers. Maintain plant in accordance with manufacturers' recommendations.                                                                                                 | 3           | All mobile plant fitted with silencers. The loading shovel (Volvo L110E) is 2 years old and is serviced at 500 hour intervals on a service and maintenance agreement. The excavator (Fiat Hitachi) is approximately 12 years old and is serviced annually by TBF Thompson with maintenance carried out by company fitters. The site is normally supplied by 2 diesel engine sand barge boats both of which are serviced at 250 hour intervals with maintenance carried out by company fitters. |
| N9                          | general engine noise<br>Internal Haul Roads | Uneven roads can increase noise emitted from mobile plant |                                         | Lubricate tracked vehicles regularly to avoid squeal.                                                                                                                                                    | 4           | Internal haul roads around the plant area are graded as required, dependent upon spillages and rutting, to keep internal routes in a good state of repair.                                                                                                                                                                                                                                                                                                                                     |
|                             |                                             |                                                           |                                         | Keep roads smooth to avoid bounce.                                                                                                                                                                       |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N10                         | Audible reversing alarms                    | Likely to cause particular irritation to local residents  |                                         | Use alternative alarm systems, such as "smart" alarms which monitor the ambient noise levels and only emit an alarm 10 dB(A) above this level. Radar controls and directional alarms are also available. | 4           | Mobile plant uses standard bleeper type alarms which is a common approach for the company. No history of complaints regarding reversing alarms at this site.                                                                                                                                                                                                                                                                                                                                   |
|                             |                                             |                                                           |                                         | Ensure sirens and whistles are appropriate to their purpose, position so that disturbance of sensitive receptors is minimised.                                                                           |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N11                         | Other whistles and sirens                   | Likely to cause particular irritation to local residents  |                                         | Limit working hours.                                                                                                                                                                                     | NA          | No sirens are used on site                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| N12                         | Body slap of empty vehicles                 | Likely to cause particular irritation to local residents  |                                         |                                                                                                                                                                                                          | 4           | No complaints received regarding body slap. Internal haul routes around the plant area are on sandy material.                                                                                                                                                                                                                                                                                                                                                                                  |

# Environmental Audit

## 6.11 OIL / CHEMICAL STORAGE AND HANDLING

| Impact No | Source of Environmental Risks(s)         | Specific Potential Environmental Impact(s)                                                                                                                                               | General Possible Improvement Measure(s)                                                                                                                                                  | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                            | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OCS1      | Bulk oil and chemical storage facilities | Poorly maintained storage facility without secondary containment may leak and cause pollution.                                                                                           | Tanks should be of good integrity and housed within suitable secondary containment.<br>Tanks and drums should be sited away from areas at risk of impact and from surface water systems. | Provide adequate secondary containment of all fixed chemical and oil tanks with a minimum capacity of 110% of the volume of the tank.<br>Secondary containment should be constructed in line with guidance PPG02. Where underground pipework exists it should be regularly pressure tested.                                                         | 3           | The fuel oil storage facilities have been upgraded in recent years and consequently an old steel tank within a concrete block bund has been decommissioned but remains on site.<br>Diesel for the pump engine is stored within a double skinned plastic tank which is connected from a bottom outlet via a rubber reinforced pipe to the engine. The tank is located outside on a concrete base and protected by steel bollards.<br>Barge/waste oil and diesel for barges and mobile plant are stored in a double skinned plastic tank.<br>The diesel tank for mobile plant and barges is filled with a bottom outlet. The tanks are located within a concrete block bund which is provided with corrugated metal sheets on 3 sides and a roof. An electric pump is also located within the bund. Draw off pipes for refuelling mobile plant and barges are connected to the pump. Some pipework has been moved to within the bund since the previous audit. The draw off pipes for mobile plant is now within the bund but the draw off pipe for refuelling barges remains located outside the bund although this is filled with an electric cut off valve. A section of the draw off pipework for refuelling barges is located underground. This pipework has been pressure tested following the DOE NI verification visit.<br>The company has produced Notice EWI 13 which gives details on delivery procedures although this had not been displayed near the delivery points.<br>Procedures for fuelling and refuelling are defined in the company EMS Procedure EWI 12 - Fuelling & Refuelling 12.3 - Filling of fuel tanks.<br>Spill kit materials are held on site and include booms (large and small), mats and absorbent rolls.<br>These are stored in the garage workshop and electrical switch building. Filling areas are not isolated from surface water but concrete bases have been provided. |
| OCS2      | Bulk oil and chemical delivery to tank   | Risk of spillage during delivery of bulk oils and chemicals to storage tanks                                                                                                             | All storage and filling should be on impermeable hard standing.<br>Spill kits should be placed near areas of risk.<br>All oil storage should be protected from potential vandalism.      | Notice giving details on safe delivery procedures and what to do in an emergency, near delivery point (available from EHS).<br>Fill pipe located within the secondary containment.<br>Automatic cut off pipes, spill kits in vicinity, delivery supervised, filling areas isolated from surface water system using ramps, roll-overs and bunds etc. | 3           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| OCS3      | Location of oil storage facilities       | Locating oil storage close to sensitive receptors e.g. water courses, or on permeable ground, shortens the pollution pathway and will reduce the time available to contain any spillage. |                                                                                                                                                                                          | Oil storage facilities should be sited away from surface water drainage systems, controlled waters and boreholes (minimum 10m from a watercourse and 50m from a borehole), on an impermeable base with suitable secondary containment to prevent migration of any spill.                                                                            | 3           | Oil storage facilities associated with the diesel pump engine, barge/waste oil and diesel for barges are located within close proximity (approximately 10 to 15 metres) to Lough Neagh. This arrangement reflects the need to have facilities close to where sand barges are unloaded and refuelled.<br>Storage facilities are located on impermeable concrete base.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OCS4      | Use of mobile bowers                     | Bowers left in areas at high risk of impact e.g. in                                                                                                                                      |                                                                                                                                                                                          | All bowers should have appropriate secondary containment e.g. double                                                                                                                                                                                                                                                                                | NA          | The site does have a mobile fuel bowser.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

# Environmental Audit

| Impact No | Source of Environmental Risk(s)                   | Specific Potential Environmental Impact(s)                                                                                                                                                            | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                               | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |                                                   | routes used by mobile plant. Could potentially be punctured by impact. Poorly maintained bowlers and careless use could result in a pollution incident.                                               |                                         | skinned. They should always be sited away from sources of potential risk e.g. routes used by mobile plant and have shut-off valves/trigger guns fitted. All bowlers should be locked outside of operational hours                      |             |                                                                                                                                                                                                                                                                                                                                                                                                                               |
| OCS5      | Manual handling of Oils and Chemicals             | Careless handling and inadequate equipment increase the risk of spillage. Undertaking handling activities near surface waters or on permeable ground increases the risk of pollution                  |                                         | Where practical hand pumps should be used for extraction of liquids from drums. Filling should take place on impermeable hard standing. Guidance on handling is contained in PPG11.                                                    | 3           | Hand pumps are used. Half of floor to garage workshop is un surfaced and is used to park vehicles                                                                                                                                                                                                                                                                                                                             |
| OCS6      | Signage on Bulk oil and chemical tanks and stores | Failure to provide signage may result in tanks being used or filled incorrectly. This could result in a pollution incident.                                                                           |                                         | All tanks should be clearly marked as to their contents. Delivery procedures should also be placed on the tank next to the point of delivery.                                                                                          | 4           | The bulk tanks were all marked with their contents labelled. Since the previous audit, notices giving details on safe delivery procedures and what to do in an emergency have been posted near the delivery points                                                                                                                                                                                                            |
| OCS7      | Storage of drums                                  | Poor storage of drums and intermediate bulk containers without secondary containment may lead to leakages and cause pollution                                                                         |                                         | Drums stored on an impermeable base ideally banded. Drum storage areas should be sited away from areas of risk from impact from mobile plant, watercourses and drains. Drums and IBCs should be stored in accordance with PPG26.       | 3           | Drums are kept in a steel tray within the garage workshop which has a concrete floor. Hand pumps are used. A Poly Trolley is provided for use with 208 litre drums. Some small plastic drums are kept on small plastic sump pallets in pump engine shed on concrete.                                                                                                                                                          |
| OCS8      | Pollution incident response                       | Poor pollution response plans, inadequate spill kits and lack of staff training can result in ineffectual pollution control. This could lead to pollution of controlled waters and land contamination |                                         | Spill kits, trained staff, spill procedure, incidents logged and corrective actions put in place. Guidance available in PPG21. Incidents should be reported to the EHS Water Management Unit on the free phone hotline (0800 80 70 60) | 5           | Spill kit materials are held on site and include booms (large and small), mats and absorbent rolls. These are stored in the garage workshop and electrical switch building. Staff training records are kept. Spill procedure is EMS 13 Emergency Preparedness and Response. Work Instruction EW1 01 - Accidental Oil Spillage is held on file at all sites. Freephone emergency hotline telephone number is listed in EW 101. |
| OCS9      | Security and Vandalism                            | Unauthorised operation and vandalism could result in discharge of polluting matters to controlled waters.                                                                                             |                                         | Oil storage facilities should be as resistant as possible to unauthorised interference and vandalism. Any permanent taps or valves should be locked shut when not in use.                                                              | 4           | No incidents recorded since system procedures/work instructions introduced. No known history of vandalism to oil storage facilities. Some of the pipes and nozzles are not protected against possible unauthorised interference and vandalism. Electric pumps are isolated at night.                                                                                                                                          |

## Environmental Audit

### 6.12 RESTORATION AND AFTERCARE

| Issue No | Component of Reclamation and Potential Issues | Possible Management Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                           |
|----------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R1       | Restoration Scheme                            | This should ideally be considered at the project inception, and show a vision of the final result anticipated and the processes required to achieve it. There should be an up-to-date copy of the Reclamation Scheme in the site management office; it should reflect what reclamation works are expected to be undertaken, not simply what was originally planned. The Reclamation Scheme should be fully integrated with the Working Scheme. Any proposed after use must take account of physical characteristics, adjacent land uses, setting, planning designations, local opinion and the desire of any interested parties. | NA          | A site review was carried out and a landscape management plan produced in June 1998 but has been superseded by the Biodiversity review. No extraction takes place within the site and therefore a restoration scheme has not been prepared.<br>The DOE NI has determined in the revised improvement notice that this impact is Not Applicable 'As this is a processing site and there is no extraction.' |
| R2       | Proposed After-use                            | Progressive restoration is preferable to leaving reclamation works to the end of the operational site life, because it reduces the site's environmental impacts more quickly. The rate of progressive reclamation should be roughly equal to the rate of mineral extraction                                                                                                                                                                                                                                                                                                                                                      | 3           | No proposed afteruse has been considered. The landscape management plan has been prepared on the basis of the sand plant remaining as a permanent development.                                                                                                                                                                                                                                           |
| R3       | Progressive Restoration                       | Only in rare cases will a Mineral Planning Authority require financial guarantees to ensure reclamation. The proposed European Directive on the Management of Waste from the Extractive Industries sets out significant changes to the current regime in this area.                                                                                                                                                                                                                                                                                                                                                              | NA          | There are no extraction activities within the site and as such there are no requirements for any progressive restoration operations.                                                                                                                                                                                                                                                                     |
| R4       | Financial Provisions for Restoration Works    | Consultation is vital                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA          | There are no restoration requirements for the site and as such there are no MPA requirements for financial guarantees.                                                                                                                                                                                                                                                                                   |
| R5       | Regulatory Authority Consultation             | Public involvement is preferential, and can assist in raising the public image of the company. It can help define appropriate after uses and identify any potential socio-economic benefits that may be derived from the scheme.                                                                                                                                                                                                                                                                                                                                                                                                 | NA          | There are no restoration requirements for the site and as such there has been no need to conduct any such consultations.                                                                                                                                                                                                                                                                                 |
| R6       | Public Consultation Regarding Restoration     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NA          | There are no restoration requirements for the site and as such there has been no need to conduct any such consultations.                                                                                                                                                                                                                                                                                 |

## Environmental Audit

### 6.13 SECONDARY AGGREGATE USAGE

| Impact No | Source of Environmental Risk(s)                          | Specific Potential Environmental Impact(s)                                                                          | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                         | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SA 1      | No decrease in use of virgin aggregate                   | Virgin aggregates are a finite resources and will be exhausted if alternative resources are not developed and used. |                                         | <p>Retain evidence of efforts to source recycle material.</p> <p>Retain evidence of advising potential suppliers of capacity to take in recycle material.</p> <p>Installation of recycling equipment.</p> <p>Acquisition of any additional permits required to take in recyclable/recoverable materials.</p> <p>Retain evidence of tonnages of recycle incorporated into aggregate products.</p> | 3           | <p>No efforts have been made to source, or establish potential suppliers for, recycle materials.</p> <p>Recycles have not yet been incorporated into aggregate products.</p> <p>Considering the restricted range of sand aggregate products produced at the site the operator believes that there are limited opportunities incorporate recycle materials within the current range of sand products.</p> |
| SA2       | No increase in use of recycled and recovered aggregates. | No decrease in the amount of construction and demolition waste sent to landfill.                                    |                                         |                                                                                                                                                                                                                                                                                                                                                                                                  | 3           | There are no plans to increase the use of recycles and recovered aggregates at the site.                                                                                                                                                                                                                                                                                                                 |

# Environmental Audit

| Impact No | Source of Environmental Risk(s)       | Specific Potential Environmental Impact(s)                      | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|---------------------------------------|-----------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SW6       | Site Drainage / Water Management Plan | settling systems and could increase the risk of silt pollution. |                                         | <p>Progressively restore areas and line water channels.</p> <p>Where practical clean water run off (such as from roofs) should be separated from dirty water and discharged directly from site (or collected if required). Drainage plans should be held for the site indicating where all site run-off reports. Where formal foul and surface water systems exit on site these should be shown on a site plan and any appropriate drain covers marked to indicate where fouls or surface exit.</p> | 3           | <p>There are no arrangements on site to separate clean water from the dirty water system for discharge of water containing suspended solids.</p> <p>The operators has produced a site drainage plan. The consent for the septic tank includes a plan of the site indicating the location of the septic tank. There are no mains linked foul or surface water drainage systems on site.</p> |

# Environmental Audit

## 6.15 TRANSPORT (OFF-SITE EFFECTS)

| Impact No | Source of Environmental Risk(s)                                   | Specific Potential Environmental Impact(s)                                                                                                                                                                                                          | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                 | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| T1        | Ingress to and egress from site                                   | Can cause disturbance to local community, and impacts may be especially bad during early morning, late evening and at night                                                                                                                         | Sensitive routing should, if possible, be adopted in order to avoid residential or other sensitive areas. The local Highways Agency could issue Weight Restriction Orders on particular routes, or Routing Agreements could be signed by mutual undertaking. Consideration should be given to alternative means of transportation, such as rail for long distance movements (if facilities are available), or conveyor systems to adjacent sites if applicable. Additional care should be taken to inform drivers unfamiliar with the site of any relevant local environmental considerations | Review site access and establish whether effects on congestion etc. are significant. Consideration should be given to sensitive routing (see General Possible Improvement Measures)                                                                                      | 3           | The route taken by road haulage is entirely dependent on customer requirements. The site is not aware of any sensitive routing issues. A safe site entrance has been provided. No significant congestion effects have been identified.                                                                                                                                                            |
| T2        | Dirt on vehicles leaving site                                     | May create dust, which can cause both a nuisance and adverse impacts on ecology and water resources<br>Can also be classified as 'litter' - the deposit of which is an offence. In large quantities it could also cause a hazard to other motorists | Consideration should be given to alternative means of transportation, such as rail for long distance movements (if facilities are available), or conveyor systems to adjacent sites if applicable.                                                                                                                                                                                                                                                                                                                                                                                            | Ensure that vehicles leaving the site are wheel-washed                                                                                                                                                                                                                   | 3           | There is no wheel wash equipment on site. Loaded vehicles are not covered. The road in the vicinity of the entrance is cleaned with a road sweeper on a regular basis approximately every 3 weeks. DOE NI Improvement Notice for Sandy Bay requires 'Ensure there is no carry over from vehicles leaving the processing site'                                                                     |
| T3        | Accidental spillage of aggregate on roads                         | Can be classified as 'litter' - the deposit of which is an offence. In large quantities it could also cause a hazard to other motorists                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Loads should be properly loaded, trimmed and sheeted as appropriate.                                                                                                                                                                                                     | 3           | Loaded vehicles are not sheeted. The road in the vicinity of the entrance is cleaned with a road sweeper on a regular basis approximately every 3 weeks. There was no evidence of spillage on the public highway during the course of the audit. DOE NI Improvement Notice for Sandy Bay requires 'Ensure all vehicles leaving site are correctly loaded to prevent spillage onto road surfaces.' |
| T4        | Poor parking facilities on site                                   | If vehicles are forced to park on local roads instead of within the site, this can create congestion and parking problems (particularly overnight)                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sufficient car parking should be provided on site. If not, off site parking should take account of the likely effects on local residents                                                                                                                                 | 5           | There are sufficient car parking facilities on site.                                                                                                                                                                                                                                                                                                                                              |
| T5        | Aggressive driving, conveying, and other inconsiderate activities | Can antagonize local residents                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Site should have written policy on conduct and controls expected from drivers. Drivers should drive according to the Highway Code, and should take particular care during early morning, late evening and at night. Horns should not be used unless absolutely necessary | 3           | The company has produced a Driver Induction Pack for employees and a Motor Fleet Policy.<br>Most of the road haulage vehicles are independently owned and outside the direct control of site. There is 1 company owned truck                                                                                                                                                                      |

## Environmental Audit

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s) | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                    | Audit Score | Audit Comments                                                                                            |
|-----------|---------------------------------|--------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------|
| T6        | Backhaul materials              | Road Traffic                               |                                         | Where materials are being imported to a site, backhaulage should be adopted to minimise road traffic generated by the site. | 3           | No materials are imported to this site.<br>There are few opportunities for backhaulage at this operation. |

# Environmental Audit

## 6.16 WASTE MANAGEMENT

| Impact No | Source of Environmental Risk(s)    | Specific Potential Environmental Impact(s)                                                                                                                      | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                         |
|-----------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WM1       | Waste minimisation                 | Minimising the amount of waste disposed to landfill can cut bottom line cost and reduce environmental risk                                                      | All waste management and transfers should be in accordance with the Duty of Care.<br>Waste should be kept in a suitable container that prevents it escaping including as a result of vandalism. It should also prevent rain water infiltration of the facility as this could result in pollutants being 'leached out'.<br>Waste storage facilities should be on areas of hard standing away from surface water drains and water courses.<br>Waste should only be transferred to carriers licensed to take the particular type of waste being consigned. All transfer notes should be retained for a minimum of 2 years.<br>Special waste i.e. material that is considered difficult to treat, keep or dispose of, should be managed in accordance with the special waste regulations. Categories of special waste should not be mixed and special waste should not be mixed with general controlled waste.<br>Special waste should be stored in suitable containers. | With all waste look to apply the waste hierarchy:<br>1. Reduce the amount of waste<br>2. Re-use as much as possible<br>3. Recycle<br>4. Dispose of responsibly to landfill<br><br>Operators must develop an appropriate waste management plan for all non saleable arisings from the workings.<br>Use uncontaminated mineral waste for landscaping.<br>Try to vegetate waste heaps.<br>Ensure that waste mineral working material is stored within the site and that it is located in an area to reduce visual intrusion to sensitive properties.<br>Where practical ensure it is contained within the sites water management system so that run off is subject to the same controls as other water on the site. | 4           | Types of waste generated at the site include:<br>Carleen, weighbridge and office waste in wheelite<br>Scrap steel on an occasional basis<br>Oily wastes/filters in relatively small quantities<br>Batteries in limited numbers.<br>There is no waste minimisation programme in place.                                                                                  |
| WM2       | Mineral working waste              | Poorly stored and managed mineral working waste can cause nuisance through dust and intrusion into visual amenity. It may also cause pollution if contaminated. | Waste should only be transferred to carriers licensed to take the particular type of waste being consigned. All transfer notes should be retained for a minimum of 2 years.<br>Special waste i.e. material that is considered difficult to treat, keep or dispose of, should be managed in accordance with the special waste regulations. Categories of special waste should not be mixed and special waste should not be mixed with general controlled waste.<br>Special waste should be stored in suitable containers.                                                                                                                                                                                                                                                                                                                                                                                                                                             | Operators must develop an appropriate waste management plan for all non saleable arisings from the workings.<br>Use uncontaminated mineral waste for landscaping.<br>Try to vegetate waste heaps.<br>Ensure that waste mineral working material is stored within the site and that it is located in an area to reduce visual intrusion to sensitive properties.<br>Where practical ensure it is contained within the sites water management system so that run off is subject to the same controls as other water on the site.                                                                                                                                                                                   | 4           | All material offloaded from sand barges is processed through the sand classification plant to produce useful products. Some very fine silty material is returned to Lough Neagh via the discharge from the sand plant. Material from the oversize screen is stockpiled for sale. Any fine silty sand which is not returned to Lough Neagh is also stockpiled for sale. |
| WM3       | Waste containers                   | Inadequate waste containers may allow waste to escape into the environment via natural processes or through vandalism.                                          | Waste should only be transferred to carriers licensed to take the particular type of waste being consigned. All transfer notes should be retained for a minimum of 2 years.<br>Special waste i.e. material that is considered difficult to treat, keep or dispose of, should be managed in accordance with the special waste regulations. Categories of special waste should not be mixed and special waste should not be mixed with general controlled waste.<br>Special waste should be stored in suitable containers.                                                                                                                                                                                                                                                                                                                                                                                                                                             | Waste containers should be robust and suitable for the material to be stored in them. They should prevent waste escaping into the environment and should not allow water to leach out pollutants. They should deter vandalism i.e. be lockable or be located in a secure area.                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4           | 1 wheelite bin provided at weighbridge. Double skinned tank is provided for bilge waste off. Waste oil filters are kept in drums in garage workshop. Drums are provided for oily rags and contaminated absorbent materials.                                                                                                                                            |
| WM4       | Siting of waste storage facilities | Facilities stored on permeable ground or near surface water systems will                                                                                        | Waste should only be transferred to carriers licensed to take the particular type of waste being consigned. All transfer notes should be retained for a minimum of 2 years.<br>Special waste i.e. material that is considered difficult to treat, keep or dispose of, should be managed in accordance with the special waste regulations. Categories of special waste should not be mixed and special waste should not be mixed with general controlled waste.<br>Special waste should be stored in suitable containers.                                                                                                                                                                                                                                                                                                                                                                                                                                             | Waste facilities should be stored on hard standing of sound integrity, away from surface water systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3           | No flammable waste located next to buildings.                                                                                                                                                                                                                                                                                                                          |

# Environmental Audit

| Impact No | Source of Environmental Risk(s)                                                                      | Specific Potential Environmental Impact(s)                                                                                                                                                                                                                                                                                                                                                                                                                                             | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                              | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WM5       | Waste management / carriers licences (As & when the Waste Management Licensing regime is introduced) | <p>reduce the length of the pollution pathway and increase the probability of pollution being caused.</p> <p>The Duty of Care and Special Waste regulations place an obligation on consignors to ensure that third parties are competent and will manage waste on their behalf in accordance with regulations. Unlicensed contractors may not adhere to the regulations and waste may cause pollution e.g. fly tipping. This could in turn result in prosecution of the consignor.</p> |                                         | <p>Flammable waste should not be sited next to buildings.</p> <p>Ensure all waste management contractors and carriers used are licensed to manage the wastes that are to be consigned.</p> <p>Obtain copies of their licences. Verify licences with the regulator.</p> <p>Ensure a waste management licence is gained for any process that may require licensing. If the process is exempt ensure there is written confirmation of the exemption.</p> | 3           | <p>The production manager maintains records of licensed contractors and carriers at the head office. These records are not available at site. Carriers' Licences registration details held and checked on EHS Registered Carriers Database:</p> <p>Mc Quillan Envirocare Ltd. Reg. No. ROC 632</p> <p>Thompson Recycled Oil Reg. No. ROC 141</p> <p>Thomas Hamill &amp; Sons Reg. No. ROC 265</p> <p>Irish Waste Services Ltd Reg. No. ROC 210</p> <p>ENWA (NI) Ltd Reg. No. ROC 146</p> |
| WM6       | Waste transfer notes and consignment notes                                                           | <p>Correctly completed controlled waste transfers and consignment notes detail what wastes have been consigned. They provide valuable evidence in proving compliance with the regulations.</p>                                                                                                                                                                                                                                                                                         |                                         | <p>Ensure controlled waste transfer notes and consignment notes are collected.</p> <p>Ensure they are completed correctly, including an accurate description of waste consigned.</p> <p>Ensure that the description adequately covers all the waste types in the skip.</p> <p>Retain transfer notes for a minimum of 2 years and consignment notes for a minimum of 3 years.</p>                                                                      | 4           | <p>The production manager maintains records for waste transfer notes at the head office. These records are not available at site. Transfer Notes held:</p> <p>Lisburn City Council for period 01/06/07 and 31/05/08 for wheelle bins for carleap and general office EWC200301.</p> <p>Irish Waste dated 12/11/07 ref. DA5030657 descriptions and EWCs attached.</p>                                                                                                                      |

## Environmental Audit

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                                                                                              | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                        | Audit Score | Audit Comments                            |
|-----------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------|
| WM7       | Waste segregation               | Failure to segregate waste could result in Special waste being co-disposed with non-special waste in a facility not able to cope with hazardous material. This may lead to contamination and pollution. |                                         | Special waste should be handled and stored separately from non-special controlled waste.<br>Different categories of special waste should not be mixed. Ideally active and inactive wastes should be segregated. | 3           | Wastes are handled and stored separately. |

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**AGGREGATES LEVY CREDIT SCHEME AUDIT  
TO CODE OF PRACTICE**

**NORTHSTONE (NI) LIMITED – CONCRETE DIVISION**

**SITE: SANDY BAY PLANT**

**ADDRESS: SANDYBAY SITE, 19 SHORE ROAD, UPPER  
BALLINDERRY, CO ANTRIM, BT28 2LF**

# Environmental Audit

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                                                       |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------|
| <b>Name of Site</b>                   | Sandy Bay Plant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Date of Audit</b>     | 12 <sup>th</sup> , 13 <sup>th</sup> & 14 <sup>th</sup> September 2005 |
| <b>Name of Operating Company</b>      | Northstone (NI) Ltd.<br><i>Concrete Division</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Names of Auditees</b> | [Redacted], Environmental Manager<br>[Redacted], Production Manager   |
| <b>Address of Site</b>                | Sandybay Site, 19 Shore Road, Upper Ballinderry, Co. Antrim, BT28 2LF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                                                                       |
| <b>Description of Site Operations</b> | Sand Plant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                                                       |
|                                       | <p>The site is operated for the landing of sand, dredged by sand barge boats from Lough Neagh, and processed with water by classification plant to produce sand products. The operator does not hold a planning permission for the operations. The site operates under 'Established User Rights Prior to Introduction of 1972 Planning Order' as specified in the application form. Scott (Toomebridge) Ltd operate an Environmental Management System which is certified to BS EN ISO 14001 Certificate No. EMS 55117 with the scope described as 'Production of sand, concrete tiles, pipes and blocks'.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |                                                                       |
| <b>Weather</b>                        | Mainly sunny with cloudy periods. Some intermittent light rain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                                                       |
| <b>Date of Report</b>                 | 16 <sup>th</sup> October 2005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |                                                                       |
| <b>Name of Auditor</b>                | [Redacted] MLI AIEMA<br>Member of IEMA at Environmental Auditor Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                                                                       |
|                                       | <p>The purpose of this environmental audit is to assess the level of compliance with the Aggregates Levy Credit Scheme (ALCS) Code of Practice. This report aims to record the basic environmental performance on site to enable identification of any requirements for improvement action to correct shortfalls in compliance with the Code of Practice.</p> <p>This audit has been carried out by an accredited environmental auditor. This audit follows the Aggregates Levy Audit Protocol addressing all the areas of environmental risk pertaining to the site. Since the audit protocol is generic some elements of the code are not applicable.</p> <p>The assessment of legal compliance required by the code has been addressed by the inspection of the relevant permits/licensing paperwork held by the operator at the site. This audit has relied on the site operator to advise of any relevant regulatory non-compliance or incidents that would require notification to any regulatory authority.</p> <p>The audit assessment is based on selective sampling directed by the audit protocol and therefore environmental impacts may exist which have not been identified.</p> |                          |                                                                       |

# Environmental Audit

## Summary of Audit Scores

| 6.1 Air Quality                      | 6.6 Dust                     | 6.9 Landscape & Visual | 6.11 Oil/ Chemical cont.                | 6.15 Transport               |
|--------------------------------------|------------------------------|------------------------|-----------------------------------------|------------------------------|
| AQ1 5                                | D1 NA                        | LV1 4                  | OGS6 3                                  | T1 3                         |
| AQ2 5                                | D2 5                         | LV2 3                  | OCS7 3                                  | T2 3                         |
| AQ3 5                                | D3 NA                        | LV3 NA                 | OCS8 5                                  | T3 3                         |
| AQ4 4                                | D4 NA                        | LV4 3                  | OCS9 4                                  | T4 5                         |
| <b>6.2 Archaeology &amp; Geology</b> |                              |                        |                                         |                              |
| AG1 NA                               | D5 NA                        | LV5 3                  | <b>6.12 Restoration &amp; Aftercare</b> |                              |
| AG2 NA                               | D6 4                         | <b>6.10 Noise</b>      | R1 3                                    | T5 3                         |
| AG3 1                                | D7 NA                        | N1 3                   | R2 3                                    | T6 3                         |
| AG4 NA                               | D8 3                         | N2 NA                  | R3 NA                                   | <b>6.16 Waste Management</b> |
| <b>6.3 Biodiversity</b>              |                              |                        |                                         |                              |
| BD1 3                                | D9 3                         | N3 4                   | R4 NA                                   | WM1 4                        |
| BD2 4                                | D10 5                        | N4 4                   | R5 NA                                   | WM2 4                        |
| BD3 3                                | <b>6.7 Energy Efficiency</b> |                        |                                         |                              |
| BD4 3                                | EE1 3                        | N5 4                   | R6 NA                                   | WM3 4                        |
| <b>6.4 Blasting</b>                  |                              |                        |                                         |                              |
| BL1 NA                               | EE2 4                        | N6 4                   | <b>6.13 Secondary Aggregate</b>         |                              |
| BL2 NA                               | EE3 4                        | N7 4                   | SA1 3                                   | WM4 3                        |
| BL3 NA                               | EE4 4                        | N8 3                   | SA2 3                                   | WM5 3                        |
| BL4 NA                               | EE5 3                        | N9 4                   | <b>6.14 Surface Waters</b>              |                              |
| <b>6.5 Community</b>                 |                              |                        |                                         |                              |
| C01 3                                | EE6 4                        | N10 4                  | SW1 3                                   | WM6 4                        |
| C02 4                                | <b>6.8 Groundwater</b>       |                        |                                         |                              |
| C03 5                                | GW1 3                        | N11 NA                 | SW2 3                                   | WM7 3                        |
| C04 3                                | GW2 4                        | N12 4                  | SW3 3                                   |                              |
| <b>6.11 Oil/ Chemical</b>            |                              |                        |                                         |                              |
|                                      | GW3 4                        | OCS1 3                 | SW4 4                                   |                              |
|                                      | GW4 NA                       | OCS2 3                 | SW5 3                                   |                              |
|                                      | GW5 NA                       | OCS3 2                 | SW6 3                                   |                              |
|                                      |                              | OCS4 NA                |                                         |                              |
|                                      |                              | OCS5 3                 |                                         |                              |

# Environmental Audit

## 6.1 AIR QUALITY (EXCLUDING DUST)

| Impact No | Source of Environmental Risk(s)            | Specific Potential Environmental Impact(s)                                                                                                                                                                                                              | General Possible Improvement Measure(s)                                                                                                                                                                                                                             | Specific Possible Improvement Measure(s)                                                                                                                                                    | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AQ1       | Operating prescribed processes             | Release of emissions without or in breach of an emit for an authorised process is a criminal offence                                                                                                                                                    | Avoid emissions to air. Avoid producing dark smoke, odours and other potential nuisance. If you operate a prescribed process under LAPC then ensure that the site has obtained the appropriate permit and that it is not in breach of any of the conditions imposed | Ensure a permit has been acquired and that the site is not in breach of the conditions of the permit. Additional measures to upgrade permit stack emissions with continuous stack monitors. | 5           | No prescribed processes are carried out at this site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| AQ2       | Burning of material                        | Burning of material and the production of smoke represent local air pollution. This has a detrimental effect on local air quality and will also contribute to global issues such as climate change. It may also represent a nuisance to local residents |                                                                                                                                                                                                                                                                     | Do not burn material on site and avoid the production of grey and dark coloured smoke on site.                                                                                              | 5           | No evidence of burning seen on site. Environmental manager advised that no burning of waste is carried out on site. The company's policy for no burning is referred to in Audit Report - EPL 04 Legal Compliance Check dated January 2005.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AQ3       | Production of noxious and offensive gasses | Release of noxious or offensive gasses may have a detrimental effect on local air quality and may constitute a nuisance to local residents                                                                                                              |                                                                                                                                                                                                                                                                     | Avoid the production of noxious and offensive gasses.                                                                                                                                       | 5           | There are no significant gasses produced on site. There is 1 diesel generator used as a pump engine for discharge of sand from boats which is used for up to 1 hour at a time. Boats are normally unloaded 4 times per day but this may be increased to meet production demands. The generator was new in July 2003 and is serviced every 250 hours. The quantity of emission is very small and has no perceived impact on local air quality or residents.                                                                                                                                                                                                                                                                                                                                              |
| AQ4       | Road and site vehicles                     | Exhaust fumes from diesel engines can reduce local air quality                                                                                                                                                                                          |                                                                                                                                                                                                                                                                     | Ensure both site and off-site vehicle fleet is regularly maintained.                                                                                                                        | 4           | The loading shovel (Volvo L110E) is 2 months old and will be serviced by Pat O'Donnell & Co. Ltd. at 500 hour intervals on a 3 year service and maintenance agreement. The first service at 100 hours was carried out on 8/8/05.<br><br>The excavator (Fiat Hitachi) is approximately 10 years old and is serviced annually by TBF Thompson with maintenance carried out by company fitters.<br><br>The site is normally supplied by 2 diesel engine sand barge boats, the William James (1968) and the Ramis Island (1972), both of which are serviced at 250 hour intervals by R.A. Phillips with maintenance carried out by company fitters.<br><br>Records of maintenance work are kept. New engines have been fitted within the last 10 years. Most of the road haulage vehicles are independently |

## Environmental Audit

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s) | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s) | Audit Score | Audit Comments                                                                                                                                                                                                                 |
|-----------|---------------------------------|--------------------------------------------|-----------------------------------------|------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |                                 |                                            |                                         |                                          | ✓           | owned and outside the direct control of site. There is 1 company owned truck serviced and maintained by TBF Thompson and 2 owner driver trucks independently serviced and maintained as required by their contract agreements. |

## Environmental Audit

### 6.2 ARCHAEOLOGY AND GEODIVERSITY

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                                                                                                                      | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                    | Specific Possible Improvement Measure(s)                                                                                                                                       | Audit Score | Audit Comments                                                                                                                                                                                                                              |
|-----------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AG1       | Response plan                   | Loss or damage of finds incurred during operation                                                                                                                                                                               | Particular care should be taken when extracting alluvium. Care should also be taken to ensure that newly discovered remains, and the areas in which they are found, are stable and safe areas in which archaeologists can work. The restoration plan should be modified to take account of new discoveries | A Response Plan should be in place in case archaeological remains or important geological deposits are discovered - the reporting of archaeological finds is required by law.  | NA          | No land based extraction activities take place on site. There are no activities carried out that require any excavations of virgin ground.                                                                                                  |
| AG2       | Stripping of soils              | Can be particularly bad in wet conditions, and when soil is stripped down to clean gravel                                                                                                                                       |                                                                                                                                                                                                                                                                                                            | Avoid wet conditions if possible. In areas of recognised archaeological interests subsolls may be left exposed for an agreed period of time to allow inspection by specialist. | NA          | No stripping of soils is carried out on site.                                                                                                                                                                                               |
| AG3       | Mineral extraction              | Loss or damage to geological or palaeontological features of interest                                                                                                                                                           |                                                                                                                                                                                                                                                                                                            | Instruction/training of site staff to raise awareness of potential features. Implement Response plan for any finds.                                                            | 1           | Mineral extraction is from the bed of Lough Neagh and there is no knowledge of any geological or palaeontological features of interest within the Lough. No instruction/training of site staff carried out. No Response plan for any finds. |
| AG4       | De-watering operations          | Can dry out adjacent areas which may contain remains which are only preserved because they are submerged. Any change from this may initiate rapid decay, and the consequent damage / destruction of the archaeological resource |                                                                                                                                                                                                                                                                                                            | Artificial watering, creation of buffer zones or wet working may be instigated.                                                                                                | NA          | There is no land based dewatering carried out within the site.                                                                                                                                                                              |

# Environmental Audit

## 6.3 BIODIVERSITY

| Impact No | Source of Environmental Risk(s)           | Specific Potential Environmental Impact(s)                                                                                                                                                             | General Possible Improvement Measure(s)                                                                                                                                                                                                           | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                   | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BD1       | Biodiversity related planning constraints | Failure to adhere to biodiversity planning constraints could result in damage to habitats identified as being valuable                                                                                 | Planning constraints linked to biodiversity should be adhered to rigorously. Areas of high ecological value should be fenced off and staff made aware. The site should be continually monitored for the possible occurrence of protected species. | Adhere to planning constraints and avoid degrading designated areas. Areas to be marked off and access for recording and management provided.                                                                                                                                                              | 3           | There are no biodiversity related planning constraints. No knowledge of any designated areas within site. It is known that the Lough Neagh Area of Special Scientific Interest (ASSI), RAMSAR and Special Protection Area (SPA) designations relate to areas along the site boundary. The operator did not have records of the designations for these designations. Therefore, no areas have been marked off. Access for recording and management has not been proposed.            |
| BD2       | Non-designated sites                      | Valuable, non-recorded sites may be lost if not identified and protected                                                                                                                               |                                                                                                                                                                                                                                                   | Review site for areas of potential value. Agree access and management plans.                                                                                                                                                                                                                               | 4           | A site review was carried out and a landscape management plan produced in June 1998 but has not yet been implemented. The supporting report for the plan was not available at the audit.                                                                                                                                                                                                                                                                                            |
| BD3       | Protected species                         | Damage to protected species and their habitat represents a detrimental impact upon biodiversity and could also contravene The Conservation (Nature Habitats etc.) Regulations (Northern Ireland) 1995. |                                                                                                                                                                                                                                                   | Adhere to any planning constraint imposed with regard to protected species. Monitor the site. Ensure that staff are aware of the key protected species that may occur on site. Should protected species be found, avoid disturbing the habitat and seek guidance from the Environment and Heritage Service | 3           | No planning constraints imposed with regard to protected species. Sand Martins are known to frequent the site and site staff are aware that their nests should not be disturbed when occupied.                                                                                                                                                                                                                                                                                      |
| BD4       | Use of Native Species                     | Use of native species in planting can contribute positively to biodiversity                                                                                                                            |                                                                                                                                                                                                                                                   | During restoration planning or landscape works, native species for all planting should be used if appropriate. Contact the Environment & Heritage Service for further advice.                                                                                                                              | 3           | No native species have been planted. Much of the established vegetation is the result of natural regeneration in previously disturbed areas. The landscape management plan produced in June 1998 identifies areas for planting of native species but has not yet been implemented. Some non native hedge species have been planted. Planting of deciduous species within close proximity of sand stockpiles is avoided to minimise the risk of contamination with leaves in autumn. |

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## 6.4 BLASTING

| Impact No | Impact of Blasting         | Specific Potential Environmental Impact(s)                                                                                                                                                                                                                                                                                                                                 | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Audit Score | Audit Comments                           |
|-----------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------|
| BL1       | Ground vibration           | Can cause damage to property, ranging from minor cosmetic cracks to major structural damage                                                                                                                                                                                                                                                                                | <p>The following might be activities mandated by planning conditions:</p> <ul style="list-style-type: none"> <li>Limits on the days per year when blasting occurs</li> <li>Limits on the number of blasts that occur in a day</li> <li>Limits on the timing of blasts</li> <li>Audible warnings prior to blasting</li> <li>Methods for minimizing air overpressure</li> <li>Monitoring to ensure limits are not exceeded</li> </ul> <p>These can, of course, be undertaken voluntarily, as well as:</p> <ul style="list-style-type: none"> <li>Ensuring adequate separation distances between the working face and any property, to remove risk of slope failures affecting such property.</li> <li>Personally informing local residents prior to blasting, particularly if blasting activities are infrequent</li> <li>Carrying out face surveys prior to blasting to double-check, if necessary, revise blast design following inspection</li> <li>Temporarily closing nearby roads if necessary</li> <li>If possible, directing</li> </ul> | <p>Scheme of vibration monitoring. Make results available to interested parties. (see Code of Practice - may be mandated by planning condition)</p> <p>Limits on ground vibrations received at noise or vibration sensitive properties</p> <p>Noise and vibration are intrinsically linked, and are dealt with together in this section</p> <p>Prepare a written scheme of air overpressure control (see Code of Practice for details)</p> <p>Cover detonation cord(s) (noise becomes a dull 'thud' rather than a sharp 'crack')</p> | NA          | No blasting is carried out at this site. |
| BL2       | Air overpressure and noise | Air overpressure is blast energy transmitted through the air as pressure waves. It can be felt by humans, but is entirely safe. However, it can cause windows to rattle and ornaments to shake in houses. Noise can be quite loud, often in the form of a sharp 'crack', but impacts are temporary. Noise can also adversely affect wildlife (particularly breeding birds) | <ul style="list-style-type: none"> <li>Ensuring adequate separation distances between the working face and any property, to remove risk of slope failures affecting such property.</li> <li>Personally informing local residents prior to blasting, particularly if blasting activities are infrequent</li> <li>Carrying out face surveys prior to blasting to double-check, if necessary, revise blast design following inspection</li> <li>Temporarily closing nearby roads if necessary</li> <li>If possible, directing</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Filler dust from drill rigs</p> <p>Bag and remove drilling dust from blast zone</p> <p>Use stemming material (angular chippings)</p>                                                                                                                                                                                                                                                                                                                                                                                              | NA          |                                          |
| BL3       | Dust                       | Blasting creates large piles of rock, which fall to the ground and create dust. Drilling holes for explosives also causes dust.                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>Ensuring adequate separation distances between the working face and any property, to remove risk of slope failures affecting such property.</li> <li>Personally informing local residents prior to blasting, particularly if blasting activities are infrequent</li> <li>Carrying out face surveys prior to blasting to double-check, if necessary, revise blast design following inspection</li> <li>Temporarily closing nearby roads if necessary</li> <li>If possible, directing</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Can never be completely eliminated, but can be minimised by:</p> <ul style="list-style-type: none"> <li>Preparing a written specification for blasting and following it exactly</li> <li>Using sufficient stemming</li> <li>Using screen nets if necessary</li> <li>Using toe rather than collar priming/detonation</li> </ul>                                                                                                                                                                                                    | NA          |                                          |
| BL4       | Flyrock                    | Flyrock is the unexpected projection of debris beyond blast zone, caused by a number of factors. It can represent a danger to human health and safety, and if it carries beyond the site boundary, or injures someone, the event must be reported to the Health                                                                                                            | <ul style="list-style-type: none"> <li>Ensuring adequate separation distances between the working face and any property, to remove risk of slope failures affecting such property.</li> <li>Personally informing local residents prior to blasting, particularly if blasting activities are infrequent</li> <li>Carrying out face surveys prior to blasting to double-check, if necessary, revise blast design following inspection</li> <li>Temporarily closing nearby roads if necessary</li> <li>If possible, directing</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Can never be completely eliminated, but can be minimised by:</p> <ul style="list-style-type: none"> <li>Preparing a written specification for blasting and following it exactly</li> <li>Using sufficient stemming</li> <li>Using screen nets if necessary</li> <li>Using toe rather than collar priming/detonation</li> </ul>                                                                                                                                                                                                    | NA          |                                          |

# Environmental Audit

| Impact No | Impact of Blasting | Specific Potential Environmental Impact(s)                        | General Possible Improvement Measure(s)                                                                                                     | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                 | Audit Score | Audit Comments |
|-----------|--------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|
|           |                    | <p>and Safety Executive. It can also cause damage to property</p> | <ul style="list-style-type: none"> <li>• delamination away from sensitive locations</li> <li>• Setting up a complaints procedure</li> </ul> | <ul style="list-style-type: none"> <li>• Correctly training personnel</li> <li>• Ensuring drill holes are accurate and avoid concentration of explosives at a particular point (e.g. corners)</li> <li>• Filling natural rock cavities if they are visible and if practicable</li> </ul> |             |                |

## Environmental Audit

### 6.5 COMMUNITY

| Impact No | Source of Environmental Risk(s)       | Specific Potential Environmental Impact(s)                                                                                                                                                                                                                                  | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C01       | Dedicated contact                     | Failure to provide a dedicated named contact could result in complainants contacting regulators.                                                                                                                                                                            | Provide a dedicated contact and phone number, which the local community can contact at any time.<br>Encourage regular liaison between the site and the local community.<br>Provide advance notice to any residents that may be affected by any activities that may cause nuisance.<br>Consider holding open days and encouraging school visits to educate the community.<br>Log any complaints and undertake prompt remedial action.<br>Liaise with the complainant to re-assure them that action is being taken.<br>Log all corrective actions taken so that effectiveness can be reviewed. | Provide a dedicated contact name and number for the local community.<br>Try to make the contact available throughout all operational hours. Publicise this name and number.<br>Write and adhere to a complaints procedure that details the complaints process from the initial contact through to resolution.<br>Ensure the procedure prescribes timescales for response.<br>Log all complaints in detail.<br>Record corrective actions taken and the eventual outcome. | 3           | Sign at entrance includes a contact telephone number for the site but does not include a dedicated contact name.<br><br>The company operates EMS Procedure 9.3 for External Communications which requires all communications to be forwarded to the Environmental Manager who maintains a record of all correspondence and associated records for resolution.<br><br>The company maintains a 'Communications Log' EPR9/1 which is maintained by the Environmental Manager in electronic format. Records are kept of associated correspondence and resolution actions. |
| C02       | Documented complaints procedure       | Adoption of a complaints procedure can help to ensure that complaints are handled in a uniform fashion and within specified timescales.                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| C03       | Complaints and corrective action log  | Failure to log complaints and corrective actions may result in unresolved issues and an inability to assess effectiveness of outcomes. It also provides an audit trail to prove that complaints have been taken seriously and that appropriate corrective action was taken. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| C04       | Educational initiatives and open days | Educating local communities can help to improve the perspective of local residents towards aggregates and there extraction and processing. It can help build relations and inspire confidence in the management of a site.                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Consider organising open days and conducting educational visits by local schools and colleges.<br>Provide opportunities for access of interested parties.                                                                                                                                                                                                                                                                                                               | 3           | An educational visit for 24 school children was conducted in May/June 2005 at the company's Hutchinsons sand site to show sand extraction/processing operations and to the Airfield site to show finished products in the life factory.<br>The company also held a careers day at Randalstown for local schools.<br>The company is happy to provide opportunities for access to interested parties.                                                                                                                                                                   |

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## 6.6 DUST (EXCLUDING BLASTING DUST)

| Impact No | Source of Environmental Risk(s)   | Specific Potential Environmental Impact(s)                                                                                                                             | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                   | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                           | Audit Score | Audit Comments                                                                                                 |
|-----------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------|
| D1        | Operating Prescribed Processes    |                                                                                                                                                                        | <p>If possible, locate dust-generating activities where:</p> <ul style="list-style-type: none"> <li>Sensitive receptors such as houses are upwind from the dust source</li> <li>The need to transport minerals around the site is minimised</li> <li>Maximum protection can be obtained from the local topography and woodland</li> </ul> | <p>Ensure current permit is in place for all prescribed processes. Ensure all operations meet the conditions of the permit.</p> <p>Minimise speed of conveyors and drop heights to minimise likelihood of dust spread</p> <p>Install wind guards, covers on high and steep conveyors, belt cleaning, and dust collection systems</p> <p>Regularly clean and maintain conveyors</p> | NA          | No prescribed processes are carried out at this site.                                                          |
| D2        | Conveyor transfer of minerals     | Dust levels from conveyor transfer activities are often the most significant on mineral extraction sites, particularly because of their continuous, long term, nature. | <ul style="list-style-type: none"> <li>Bowlers</li> <li>Hand-held pumps</li> <li>Water trucks with water cannons</li> <li>Automated water atomizing sprays</li> </ul> <p>Install and maintain on plant dust suppression technology recommended by manufacturers</p>                                                                       | <p>Where problems arise introduce control measures such as water misting, wetting of mineral feed as practicable, enclosing plant and fitting dust extraction systems.</p> <p>To control dust, plant should have sealed silos for concrete with automatic alarms to prevent overfilling, sealed mixing areas with dust proof covers and dust extraction filters etc</p>            | 5           | There are no conveyors used within the sand classification plant and all sand is processed in a wet condition. |
| D3        | Mineral crushing                  |                                                                                                                                                                        | Schedule major dust-generating activities to avoid extremely dry or windy weather                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                    | NA          | No mineral crushing is carried out on site.                                                                    |
| D4        | Batching Plant                    |                                                                                                                                                                        | Utilise dust suppression watering techniques as appropriate, such as:                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                    | NA          | There is no concrete batching process carried out at this site.                                                |
| D5        | Removal of topsoil and vegetation |                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                           | Avoid wetting of soils as this can cause damage to soil structures.                                                                                                                                                                                                                                                                                                                | NA          | There are no topsoil or vegetation removal operations carried out at this site.                                |

# Environmental Audit

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                              | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                           |
|-----------|---------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D6        | Mineral stockpiles and loading  |                                                                                         |                                         | Mineral stockpiles are likely subject to daily addition and reclaim and control measure where excess generation occurs. Reduce dust generation-through storage within sheltered bays (potentially three sided bays with roof), use of atomising sprays or regular wetting, or locate stocking and loading area remote from sensitive receptors. Where stockpiles represent longer term features, consideration should be given to sealing and protection using chemical or physical means. | 4           | Sand stockpiles are very wet when first formed under sand towers and have to drain so that sand is dry enough to be transported. The normal moisture content of the sand in stockpiles after draining is approximately 5%. No sensitive receptors have been identified on the basis of no complaints have been received. |
| D7        | Soil and Overburden dump        | Exposed soil and overburden can cause dust and be subject to erosion.                   |                                         | All soils and overburden dumps that will be in place longer than 6 months should be seeded as quickly as is practicable.                                                                                                                                                                                                                                                                                                                                                                   | NA          | No soil or overburden dumps have been created on site.                                                                                                                                                                                                                                                                   |
| D8        | Haul roads                      | Vehicles can carry material onto highways and dust can be emitted from uncovered loads. |                                         | Install wheel washing equipment<br>Cover loaded vehicles                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3           | There is no wheel wash equipment on site. Loaded vehicles are not covered. The road in the vicinity of the entrance is cleaned with a road sweeper on a regular basis approximately every 3 weeks.                                                                                                                       |
| D9        | Internal Haul Roads             | Can be a major source of dust                                                           |                                         | Water haul roads with a dedicated bowser as required. Consider installing sprinklers in areas likely to be operational for long periods.                                                                                                                                                                                                                                                                                                                                                   | 3           | Internal haul routes around the plant area are covered with sandy material which is kept damp in locations where water drains from sand stockpiles. There is no water bowser or sprinkler system on site. Vehicle movement are intermittent and depend on sales volumes.                                                 |
| D10       | Mobile Plant                    | Dust rise                                                                               |                                         | Exhausts on mobile plant should not be directed downwards as this can cause dust rise on roadways and unsurfaced areas.                                                                                                                                                                                                                                                                                                                                                                    | 5           | No vehicles with exhaust directed downwards.                                                                                                                                                                                                                                                                             |

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## 6.7 ENERGY EFFICIENCY

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                                                                                                | General Possible Improvement Measure(s)                                                                                                                                                                                 | Specific Possible Improvement Measure(s)                                                                                                                                                                                                 | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EE1       | Purchasing of plant             | Purchasing equipment without assessing energy consumption can result in acquisition of inefficient plant and equipment increasing energy consumption through out the life of the equipment                | Always seek to use the most efficient equipment and plant possible. Only operate equipment when it is needed. Regularly service and maintain plant and raise awareness of the need for energy efficiency amongst staff. | Consider efficiency of plant and equipment as part of the purchasing criteria. This can lead to reduced whole life impacts and costs. E.g. Motors can cost up to 100 times as much to run over ten years as their initial purchase cost. | 3           | Boat and generator engines have been replaced within the last 5 years with environmentally friendly engines. There are no requirements in company procedures for purchasing. Purchasing of major new plant such as loading shovels is carried out by parent company.<br><br>Energy efficiency is considered for purchase of motors as this provides for efficiency in operating costs. An electrical contractor (GES Group) is used for electrical maintenance services and who also advise on efficiency of motors when replacements are required.<br><br>A summary of energy usage is maintained by the Environmental Manager. The Energy, Fuel & Water Usage Summary 2004, for all of the company sites, includes data from 2003 onwards and provides information on energy usage per tonne of production to allow comparisons between sites. |
| EE2       | Monitoring energy consumption   | Monitoring is essential to managing energy consumption. Failure to monitor can result in ineffective identification of potential energy savings and therefore opportunities to reduce the impact and cost |                                                                                                                                                                                                                         | Establish a monitoring programme to chart energy consumption data for the site. This can be used to identify areas of high-energy consumption, potential savings and a baseline from which improvements can be made.                     | 4           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| EE3       | Compressed Air                  | Compressed air is expensive to generate in terms of impact and cost. Compressors are typically only 10% efficient.                                                                                        |                                                                                                                                                                                                                         | Check air compressors and lines routinely for leaks. Avoid unnecessary long runs in air lines. Only operate compressors when required.                                                                                                   | 4           | There is one compressor which is used in the garage workshop. The compressor is used with a grease gun and is only used on an occasional basis. The hose is relatively short.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| EE4       | Motors and Drives               | Motors are large consumers of energy. They account for up to two thirds of electrical energy in industry.                                                                                                 |                                                                                                                                                                                                                         | Use high efficiency motors. Switch off motors when not in use. Reduce motor speeds where possible - Variable Speed Drives can save 30 - 40%.                                                                                             | 4           | Motors are replaced as and when necessary. An electrical contractor (GES Group) is used for electrical maintenance services and who also advise on efficiency of motors when replacements are required.<br><br>There are no conveyors used within the sand classification plant and all sand is processed in a wet condition.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| EE5       | Transport                       | Consumption of fuels by vehicles depletes fossil fuels and cause associated emissions, they may also constitute a nuisance                                                                                |                                                                                                                                                                                                                         | Regularly service and maintain vehicles. Try to reduce the number of journeys required through planning. Raise awareness amongst staff about driving techniques for efficiency.                                                          | 3           | The loading shovel (Volvo L110E) is 2 months old and will be serviced by Pat O'Donnell & Co. Ltd. at 500 hour intervals on a 3 year service and maintenance agreement. The first service at 100 hours was carried out on 8/8/5.<br><br>The excavator (Fiat Hitachi) is approximately 10 years old and is serviced annually by TBF Thompson with maintenance carried out by company fitters.<br><br>The site is normally supplied by 2 diesel engine sand barge boats, the William James (1968) and the Rams Island (1972), both of which are serviced at 250 hour intervals by R A Phillips with maintenance carried out by company fitters.<br><br>Records of maintenance work are kept.<br>New engines have been fitted within the last 10 years.<br><br>Most of the road haulage vehicles are independently owned and outside the direct      |

## Environmental Audit

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                             | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s) | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EE6       | Servicing and maintenance       | Poorly maintained plant will be less efficient and consume more energy to carry out the same task than efficient well maintained plant |                                         | Regularly service and maintain plant.    | 4           | control of site. There is 1 company owned truck serviced and maintained by TBF Thompson and 2 owner driver trucks independently serviced and maintained as required by their contract agreements.<br><br>There is no planning to try to reduce the number of journeys required. Induction training includes awareness of driving techniques for efficiency.<br><br>Fixed plant is subject to regular visual inspections by site staff and maintained as and when necessary. |

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## 6.8 GROUNDWATER

| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                                                                         | General Possible Improvement Measure(s)                                                                                                                                                                                                     | Specific Possible Improvement Measure(s)                                                                                                                                     | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GW1       | Monitoring                      | Failure to monitor the effects on groundwater will result in late detection of any potential issues preventing early identification and implementation of appropriate improvement. | Assess the hydrology of the site before commencing operations. Continually monitor groundwater levels and also affects of abstractions on agriculture, ecology and the land.<br>Prevent the infiltration of pollutants into the groundwater | Sites should identify and regularly monitor sensitive receptors and record pertinent data.                                                                                   | 3           | The company commissioned a 'Preliminary Environmental Review Report' which was produced in July 1998. The report described the site (along with Ballyginniff & Hutchinsons) as in 'High Risk areas where oil spills could leach into the underlying soils' and that the soils are of 'high leaching potential over moderately permeable rock.' As the site is located adjacent to Lough Neagh the operator is aware of the sensitivity of the site's location. There is no monitoring carried out.<br>The site is not aware of any specific sensitive receptors. |
| GW2       | Abstraction                     | Over abstraction may cause a significant cone of depression and adversely affect the hydrology of an aquifer. It will also provide a pathway to an aquifer for pollutants          |                                                                                                                                                                                                                                             | EHS Water Management Unit should be consulted on maximum abstraction levels. Operators should use minimisation techniques to reduce below this level.                        | 4           | Water is drawn from Lough Neagh to facilitate pumping of sand from barges and into sand classification plant. Any water not retained within sand product stockpiles drains across the yard and is mostly directed to return to Lough Neagh. The EHS has not been consulted on maximum abstraction levels.                                                                                                                                                                                                                                                        |
| GW3       | Pollution of Groundwater        | Pollutants entering the groundwater could pollute important water resources.                                                                                                       |                                                                                                                                                                                                                                             | Have appropriate spill kits in areas of risk.<br>Respond to any spill as quickly as possible, contain the spill and remove pollutants through use of appropriate spill kits. | 4           | Spill kit materials are held on site and include booms (large and small), mats and absorbent rolls.<br>These are stored in the garage workshop and electrical switch building.                                                                                                                                                                                                                                                                                                                                                                                   |
| GW4       | Dewatering                      | Dewatering can adversely affect the Hydrology of an area                                                                                                                           |                                                                                                                                                                                                                                             | Avoid dewatering.<br>If dewatering is unavoidable dewater progressively in cells, monitoring effects continuously.<br>Reduce inflow of water by sealing.                     | NA          | No dewatering is carried out within the site. The level of water in Lough Neagh is managed by DoE (NI).                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| GW5       | Aquifers                        | Removal of filter layers and failure to provide for sufficient recharge may damage a valuable water resource.                                                                      |                                                                                                                                                                                                                                             | Leave effective filter layers of aquifers and provide adequate opportunity for recharge of aquifers.                                                                         | NA          | There are no extraction activities within the site and as such no aquifer filter layers are removed.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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## 6.9 LANDSCAPE AND VISUAL

| Impact No | Source of Environmental Risk(s)                              | Specific Potential Environmental Impact(s)                                                                         | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                  | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                  | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LV1       | Landscape Master Plan                                        |                                                                                                                    | Good site design during the planning application and operational phases can minimise impacts.<br>Operators should plan ahead for planting and management, direction of working, progressive restoration, and siting of processing plant.                                                                                                                                                 | Site operators should have or develop a landscape plan for the site covering the full life cycle from current operations to final restoration and closure<br>Consider alternative locations for tall plant - can it be located where its effects will be less visually obtrusive? If unavoidable select suitable cladding.                                                                | 4           | A site review was carried out and a landscape management plan produced in June 1998 but has not yet been implemented. The supporting report for the plan was not available at the audit. No extraction takes place within the site and therefore a restoration plan has not been prepared.                                                                                                    |
| LV2       | Tall structures                                              | Introduction of features alien to the landscape can adversely affect that landscape and can cause visual intrusion | Good use can be made of existing topography, woodlands, hedges, mounds, and general site layout to screen potentially intrusive activities.<br>Introduced improvement measures such as screen planting, landscaping, fences, etc. can also be effective.<br>The site should have a 'good housekeeping' policy which seeks to keep the site tidy and well-maintained, including paintwork | This may be mitigated as part of a restoration plan.<br>Operators should seek to consult on landscaping requirements with the planning authority<br>Consider use of screen planting, retention of existing visual/screen features, construction and planting up of screening mounds and management of vegetation once established.<br>(Landscape and noise screen mounds may be combined) | 3           | The sand classification plant includes 2 towers up to approximately 15 metres tall which are located close to Lough Neagh to facilitate processing of sand directly from sand barges.<br>The site is located within a predominantly flat area of landscape and is not open to many significant views other than those from within the Lough.                                                  |
| LV3       | Open quarry faces, excavation voids, overburden mounds, etc. | Can involve destruction of some of the existing landscape, such as a hill, distant view or skyline                 |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                           | NA          | There are no extraction activities within the site and as such there are no open quarry faces, excavation voids or overburden mounds.                                                                                                                                                                                                                                                         |
| LV4       | Site Entrances                                               | Site entrances are often the most visible part of an operations                                                    |                                                                                                                                                                                                                                                                                                                                                                                          | Keep entrances clean with well maintained fencing and planting schemes as appropriate, signage should be well kept, roads surface cleaned, verges are kept cut and tidy and debris, litter, old plant etc removed from view.                                                                                                                                                              | 3           | Steel gates and fencing are used to define the entrance to site.<br>Hedge shrubs and natural regeneration to either side of the gates is quite mature and provides a partial screen to some views into the site from the adjacent road.<br>The entrance appears tidy, free of litter and well maintained.<br>The surface of the public highway was reasonably clean at the time of the audit. |
| LV5       | Good House Keeping                                           |                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                          | Have well maintained fencing and planting schemes as appropriate, signage should be well kept, roads surface cleaned, verges are kept cut and tidy and debris, litter, old plant etc removed from view.                                                                                                                                                                                   | 3           | Boundary to site defined largely by banks supporting shrubs and natural regeneration which is quite mature. This vegetation provides a degree of enclosure for the site and is keeping with the character of adjacent areas. Agricultural fencing and/or hedgerows are used for some boundaries.                                                                                              |

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## 6.10 NOISE

| Impact No                   | Source of Environmental Risk(s)             | Specific Potential Environmental Impact(s)                                          | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                              | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                    | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                           |
|-----------------------------|---------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N1                          | General Site Operations                     |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                      | Develop operational plans and appropriate improvement strategies to ensure noise impacts from static and mobile plant are minimised. Where they exist, noise related planning conditions will be the basis of the site control measures. Where plans do not exist they should be developed. | 3           | No operational plans or improvement strategies have been developed. No noise limits set in planning. The site operator is not aware of any complaints regarding noise.                                                                                                                                                   |
| Static Plant and Operations |                                             |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                             |             |                                                                                                                                                                                                                                                                                                                          |
| N2                          | Drilling                                    | Likely to cause particular irritation to local residents                            | Incorporate buffer zones between extraction and processing activities and sensitive receptors.<br>Take advantage of natural topography and quarry faces to screen noise.<br>Install acoustic screening<br>Select low-noise plant, possibly electric-powered.<br>If possible, locate plant as far away as possible from sensitive receptors.<br>Regularly maintain plant - especially | Undertake drilling operation at times least likely to cause nuisance. Use well maintained silenced equipment. Install portable acoustic barriers if in sensitive locations.                                                                                                                 | NA          | No drilling operations are carried out within the site.                                                                                                                                                                                                                                                                  |
| N3                          | Draglines, excavators and conveyors         |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                      | Keep all draglines and conveyors well maintained and lubricated to reduce noise. Fit appropriate silencers to all diesel engines.                                                                                                                                                           | 4           | There are no conveyors used within the sand classification plant. All mobile plant fitted with silencers. The excavator is only used on an occasional basis and is regularly serviced and maintained.                                                                                                                    |
| N4                          | Pumping                                     | Likely to be left on overnight, so may cause particular problems                    |                                                                                                                                                                                                                                                                                                                                                                                      | If pump operation is likely to be an issue, ensure the pump is suitably acoustically insulated. Locate away from sensitive receptors.                                                                                                                                                       | 4           | The diesel powered pump used for discharging barges is located within a building near to the edge of Lough Neagh. Pumps used for abstraction and serving the sand plant are electric. All pumps are located away from any potential sensitive receptors.                                                                 |
| N5                          | Engine noise                                |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                      | Fit appropriate silencers. If appropriate, locate plant in acoustically insulated enclosures                                                                                                                                                                                                | 4           | The diesel engine which powers the pump used for discharging barges is located within a building near to the edge of Lough Neagh. The building is not acoustically insulated but is located away from any potential sensitive receptors. The diesel engine is only used during periods when a barge is being discharged. |
| N6                          | Crushing and Screening                      | Likely to be particularly noisy and may not meet noise limits for normal operations |                                                                                                                                                                                                                                                                                                                                                                                      | Locate plant away from sensitive receptors. Make maximum use of natural topography to screen plant. Use acoustically insulated enclosures in sensitive areas.                                                                                                                               | 4           | No crushing is carried out on site. The oversize screen on the feed to the sand classification plant is located near to the edge of Lough Neagh and away from any potential sensitive receptors. No complaints have been received regarding processing plant.                                                            |
| N7                          | Erection, maintenance and movement of plant |                                                                                     | Lubrication of bearings and sharpening of cutting edges.<br>Limit working hours                                                                                                                                                                                                                                                                                                      | Undertake at times least likely to cause nuisance. Where out of hours activity is necessary, avoid early starts or late working and control activities to minimise noise generation within sensitive locations.                                                                             | 4           | Maintenance works are generally carried out during normal working hours which are 7.00 am to 5.00 pm Monday to Friday and 7.00 am to Noon Saturday mornings. No complaints have been received regarding maintenance work.                                                                                                |

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| Impact No                   | Source of Environmental Risk(s)             | Specific Potential Environmental Impact(s)                | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                 | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------|---------------------------------------------|-----------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mobile Plant and Operations |                                             |                                                           |                                         |                                                                                                                                                                                                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| N8                          | Trucks, dozers, scrapers, loaders -         | Likely to cause particular irritation to local residents  | Limit working hours                     | Select low-noise plant. Fit silencers. Maintain plant in accordance with manufacturers' recommendations.                                                                                                 | 3           | All mobile plant fitted with silencers. The loading shovel (Volvo L110E) is 2 months old and will be serviced at 500 hour intervals on a 3 year service and maintenance agreement. The excavator (Fiat Hitachi) is approximately 10 years old and is serviced annually by TBF Thompson with maintenance carried out by company fitters. The site is normally supplied by 2 diesel engine sand barge boats both of which are serviced at 250 hour intervals with maintenance carried out by company fitters. |
| N9                          | general engine noise<br>Internal Haul Roads | Uneven roads can increase noise emitted from mobile plant |                                         | Lubricate tracked vehicles regularly to avoid squeal.<br>Keep roads smooth to avoid bounce.                                                                                                              | 4           | Internal haul roads around the plant area are graded as required, dependent upon spillages and rutting, to keep internal routes in a good state of repair.                                                                                                                                                                                                                                                                                                                                                  |
| N10                         | Audible reversing alarms                    | Likely to cause particular irritation to local residents  |                                         | Use alternative alarm systems, such as "smart" alarms which monitor the ambient noise levels and only emit an alarm 10 dB(A) above this level. Radar controls and directional alarms are also available. | 4           | Mobile plant uses standard bleeper type alarms which is a common approach for the company. No history of complaints regarding reversing alarms at this site.                                                                                                                                                                                                                                                                                                                                                |
| N11                         | Other whistles and sirens                   | Likely to cause particular irritation to local residents  |                                         | Ensure sirens and whistles are appropriate to their purpose, position so that disturbance of sensitive receptors is minimised.                                                                           | NA          | No sirens are used on site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| N12                         | Body slap of empty vehicles                 | Likely to cause particular irritation to local residents  |                                         | Limit working hours.                                                                                                                                                                                     | 4           | No complaints received regarding body slap. Internal haul routes around the plant area are on sandy material.                                                                                                                                                                                                                                                                                                                                                                                               |

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## 6.11 OIL / CHEMICAL STORAGE AND HANDLING

| Impact No | Source of Environmental Risk(s)          | Specific Potential Environmental Impact(s)                                                                                                                                               | General Possible Improvement Measure(s)                                                                                                                                               | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                      | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OCS1      | Bulk oil and chemical storage facilities | Poorly maintained storage facility without secondary containment may leak and cause pollution.                                                                                           | Tanks should be of good integrity and housed within suitable secondary containment. Tanks and drums should be sited away from areas at risk of impact and from surface water systems. | Provide adequate secondary containment of all fixed chemical and oil tanks with a minimum capacity of 110% of the volume of the tank. Secondary containment should be constructed in line with guidance PPG02. Where underground pipework exists it should be regularly pressure tested.                                                      | 3           | The fuel oil storage facilities have been upgraded in recent years and consequently an old steel tank within a concrete block bund has been decommissioned but remains on site.<br><br>Diesel for the pump engine is stored within a double skinned plastic tank which is connected from a bottom outlet via a rubber reinforced pipe to the engine. The tank is located outside on a concrete base and protected by steel bollards.<br><br>Bliger/waste oil and diesel for barges and mobile plant are stored in double skinned plastic tanks.<br><br>The diesel tank is fitted with a bottom outlet. The tanks are located within a concrete block bund which is provided with corrugated metal sheets on 3 sides and a roof.<br><br>An electric pump is also located within the bund. Draw off pipes for refuelling mobile plant and barges are connected to the pump. Both draw off pipes are located outside the bund. A section of the draw off pipework for refuelling barges is located underground. There are no facilities for testing for leaks from this pipework or any arrangements for testing the pipework for leaks. |
| OCS2      | Bulk oil and chemical delivery to tank   | Risk of spillage during delivery of bulk oils and chemicals to storage tanks                                                                                                             | All storage and filling should be on impermeable hard standing. Spill kits should be placed near areas of risk. All oil storage should be protected from potential vandalism.         | Notice giving details on safe delivery procedures and what to do in an emergency, near delivery point (available from EHS). Fill pipe located within the secondary containment. Automatic cut off pipes, spill kits in vicinity, delivery supervised, filling areas isolated from surface water system using ramps, roll-overs and bunds etc. | 3           | The company has produced Notice EWI 13 which gives details on delivery procedures although this had not been displayed near the delivery points.<br><br>Procedures for fuelling and refuelling are defined in the company EMS Procedure EWI 12 - Fuelling & Refuelling 12.3 - Filling of fuel tanks.<br><br>Spill kit materials are held on site and include booms (large and small), mats and absorbent rolls. These are stored in the garage workshop and electrical switch building. Filling areas are not isolated from surface water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| OCS3      | Location of oil storage facilities       | Locating oil storage close to sensitive receptors e.g. water courses, or on permeable ground, shortens the pollution pathway and will reduce the time available to contain any spillage. |                                                                                                                                                                                       | Oil storage facilities should be sited away from surface water drainage systems, controlled waters and boreholes (minimum 10m from a watercourse and 50m from a borehole), on an impermeable base with suitable secondary containment to prevent migration of any spill.                                                                      | 2           | Oil storage facilities associated with the diesel pump engine, big/waste oil and diesel for barges are located within close proximity (approximately 10 to 15 metres) to Lough Neagh. This arrangement reflects the need to have facilities close to where sand barges are unloaded and refuelled.<br><br>Storage facilities are located on impermeable concrete base.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| OCS4      | Use of mobile bowers                     | Bowers left in areas at high risk of impact e.g. in                                                                                                                                      |                                                                                                                                                                                       | All bowers should have appropriate secondary containment e.g. double                                                                                                                                                                                                                                                                          | NA          | The site does have a mobile fuel bowser.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| Impact No | Source of Environmental Risk(s)                   | Specific Potential Environmental Impact(s)                                                                                                                                                            | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                               | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |                                                   | routes used by mobile plant. Could potentially be punctured by impact. Poorly maintained bowlers and careless use could result in a pollution incident.                                               |                                         | skinned.<br>They should always be sited away from sources of potential risk e.g. routes used by mobile plant and have shut-off valves/trigger guns fitted. All bowlers should be locked outside of operational hours                   |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| OCS5      | Manual handling of Oils and Chemicals             | Careless handling and inadequate equipment increase the risk of spillage. Undertaking handling activities near surface waters or on permeable ground increases the risk of pollution                  |                                         | Where practical hand pumps should be used for extraction of liquids from drums. Filling should take place on impermeable hard standing. Guidance on handling is contained in PPG11.                                                    | 3           | Hand pumps are used. Half of floor to garage workshop is <u>unsurfaced</u> and is used to park vehicles.                                                                                                                                                                                                                                                                                                                                                                                                             |
| OGS6      | Signage on Bulk oil and chemical tanks and stores | Failure to provide signage may result in tanks being used or filled incorrectly. This could result in a pollution incident.                                                                           |                                         | All tanks should be clearly marked as to their contents. Delivery procedures should also be placed on the tank next to the point of delivery.                                                                                          | 3           | Tanks are not clearly marked as to their contents. <u>Delivery procedures</u> are not placed on the tanks next to the point of delivery. Only gas oil is delivered to site.                                                                                                                                                                                                                                                                                                                                          |
| OCS7      | Storage of drums                                  | Poor storage of drums and intermediate bulk containers without secondary containment may lead to leakages and cause pollution                                                                         |                                         | Drums stored on an impermeable base ideally bunded. Drum storage areas should be sited away from areas of risk from impact from mobile plant, watercourses and drains. Drums and IBCs should be stored in accordance with PPG26.       | 3           | Drums are kept in a steel tray within the garage workshop which has a concrete floor. Hand pumps are used. A Poly Trolley is provided for use with 208 litre drums. Some small plastic drums are kept on small plastic sump pallets in pump engine shed on concrete.                                                                                                                                                                                                                                                 |
| OCS8      | Pollution incident response                       | Poor pollution response plans, inadequate spill kits and lack of staff training can result in ineffectual pollution control. This could lead to pollution of controlled waters and land contamination |                                         | Spill kits, trained staff, spill procedure, incidents logged and corrective actions put in place. Guidance available in PPG21. Incidents should be reported to the EHS Water Management Unit on the free phone hotline (0800 80 70 60) | 5           | Spill kit materials are held on site and include booms (large and small), mats and absorbent rolls. These are stored in the garage workshop and electrical switch building. Staff training recorded on Training Records EPR 8/1 dated 14/11/01 and 14/11/02. Emergency review carried out 21/11/03. Spill procedure is EMS 13 Emergency Preparedness and Response. Work instruction EW1 01 – Accidental Oil Spillage is held on file at all sites. Freephone emergency hotline telephone number is listed in EW 101. |
| OCS9      | Security and Vandalism                            | Unauthorised operation and vandalism could result in discharge of polluting matters to controlled waters.                                                                                             |                                         | Oil storage facilities should be as resistant as possible to unauthorised interference and vandalism. Any permanent taps or valves should be locked shut when not in use.                                                              | 4           | No incidents recorded since system procedures/work instructions introduced.<br>No known history of vandalism to oil storage facilities. Draw off pipes and nozzles are not protected against possible unauthorised interference and vandalism. Electric pumps are isolated at night.                                                                                                                                                                                                                                 |

# Environmental Audit

## 6.12 RESTORATION AND AFTERCARE

| Issue No | Component of Reclamation and Potential Issues | Possible Management Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                        |
|----------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| R1       | Restoration Scheme                            | This should ideally be considered at the project inception, and show a vision of the final result anticipated and the processes required to achieve it. There should be an up-to-date copy of the Reclamation Scheme in the site management office; it should reflect what reclamation works are expected to be undertaken, not simply what was originally planned. The Reclamation Scheme should be fully integrated with the Working Scheme. Any proposed after use must take account of physical characteristics, adjacent land uses, setting, planning designations, local opinion and the desire of any interested parties. | 3           | A site review was carried out and a landscape management plan produced in June 1998 but has not yet been communicated to site and implemented. The supporting report for the plan was not available at the audit. No extraction takes place within the site and therefore a restoration scheme has not been prepared. |
| R2       | Proposed After-use                            | Any proposed after use must take account of physical characteristics, adjacent land uses, setting, planning designations, local opinion and the desire of any interested parties.                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3           | No proposed afteruse has been considered. The landscape management plan has been prepared on the basis of the sand plant remaining as a permanent development.                                                                                                                                                        |
| R3       | Progressive Restoration                       | Progressive restoration is preferable to leaving reclamation works to the end of the operational site life, because it reduces the site's environmental impacts more quickly. The rate of progressive reclamation should be roughly equal to the rate of mineral extraction                                                                                                                                                                                                                                                                                                                                                      | NA          | There are no extraction activities within the site and as such there are no requirements for any progressive restoration operations.                                                                                                                                                                                  |
| R4       | Financial Provisions for Restoration Works    | Only in rare cases will a Mineral Planning Authority require financial guarantees to ensure reclamation. The proposed European Directive on the Management of Waste from the Extractive Industries sets out significant changes to the current regime in this area.                                                                                                                                                                                                                                                                                                                                                              | NA          | There are no restoration requirements for the site and as such there are no MPA requirements for financial guarantees.                                                                                                                                                                                                |
| R5       | Regulatory Authority Consultation             | Consultation is vital                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA          | There are no restoration requirements for the site and as such there has been no need to conduct any such consultations.                                                                                                                                                                                              |
| R6       | Public Consultation Regarding Restoration     | Public involvement is preferential, and can assist in raising the public image of the company. It can help define appropriate after uses and identify any potential socio-economic benefits that may be derived from the scheme.                                                                                                                                                                                                                                                                                                                                                                                                 | NA          | There are no restoration requirements for the site and as such there has been no need to conduct any such consultations.                                                                                                                                                                                              |

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## 6.13 SECONDARY AGGREGATE USAGE

| Impact No | Source of Environmental Risk(s)                         | Specific Potential Environmental Impact(s)                                                                         | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                         | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SA 1      | No decrease in use of virgin aggregate                  | Virgin aggregates are a finite resource and will be exhausted if alternative resources are not developed and used. |                                         | <p>Retain evidence of efforts to source recycle material.</p> <p>Retain evidence of advising potential suppliers of capacity to take in recycle material.</p> <p>Installation of recycling equipment.</p> <p>Acquisition of any additional permits required to take in recyclable/recoverable materials.</p> <p>Retain evidence of tonnages of recycle incorporated into aggregate products.</p> | 3           | <p>No efforts have been made to source, or establish potential suppliers for, recycle materials.</p> <p>Recyclates have not yet been incorporated into aggregate products.</p> <p>Considering the restricted range of sand aggregate products produced at the site the operator believes that there are limited opportunities incorporate recycle materials within the current range of sand products.</p> |
| SA2       | No increase in use of recycled and recovered aggregates | No decrease in the amount of construction and demolition waste sent to landfill.                                   |                                         |                                                                                                                                                                                                                                                                                                                                                                                                  | 3           | There are no plans to increase the use of recyclates and recovered aggregates at the site.                                                                                                                                                                                                                                                                                                                 |

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## 6.14 SURFACE WATERS

| Impact No | Source of Environmental Risk(s)   | Specific Potential Environmental Impact(s)                                                                                                                                                                | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                        | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                            | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SW1       | Consent to discharge              | Discharges to surface waters are strictly controlled through a permit system. Discharging without consent is an offence and without tight environmental controls may lead to pollution of surface waters. | Design surface water systems so that all run off from the site is channelled through a settling process to remove particulates and oil interceptors before it is discharged.<br>Any discharge of Trade effluent to a water course should have consents. Conditions of any consent should be adhered to.<br>Try to minimise use of mains supplied water and maximise the use of surface run off in processes e.g. damping down. | If a consent for any discharge to surface waters exists, strict adherence to the conditions set out in the consent is mandatory.                                                                                                                                                    | 3           | An application has been made to the Environment & Heritage Service (EHS) for consent to discharge trade effluent from the sand processing plant area. EHS letter dated 12 May 2000 acknowledged receipt of the application but the EHS has yet to issue a consent. There are ongoing discussions with the regulatory authorities to determine appropriate conditions for limits that may be set. The operator has submitted a technical report on typical discharge quality and predicted impacts on Lough Neagh.<br><br>A consent is held for the septic tank ref. no. CNW/1038/2001 dated 30 <sup>th</sup> March 2001 which requires that the discharge shall not contain suspended solids in excess of 120mg/l, not exceed 1 cubic metre per day and that the tank shall be desludged at least once every year. The operator has established an annual contract with Water Service Reclamation to empty the tank. This discharge is subject to monthly visual checks. |
| SW2       | Settling of particulates          | Failure to settle out particulates before discharge may lead to pollution of water courses.                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                | Particulates should be settled out in sumps and lagoons before discharge. These should be of an adequate size to cope with storm increases and should be suitably shielded from the wind to prevent material being 'slirred up'.                                                    | 3           | The majority of surface water is directed back to Lough Neagh. There are no limits for suspended solids. Excess water from the sand classification plant, containing silty sand, is directed back into Lough Neagh. In addition, any water not retained within sand product stockpiles drains across the yard and is mostly directed to return to Lough Neagh. The site makes use of a small silt settlement sump.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SW3       | Oil interceptors and sump removal | Without interceptors discharge from the site may be contaminated with oils.                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                | Interceptors should be installed before final discharge. Interceptors should be well maintained and emptied as required (The contents should be treated as special waste). Detergents should not be in the surface water system, as these will negate the effect of an interceptor. | 3           | No interceptors have been installed before final discharge. The excess water from the sand classification plant is kept separate from the surface water system and directed to Lough Neagh.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SW4       | Water consumption minimisation    | Water is a valuable natural resource. Mains water has undergone an energy intense process of cleaning and as such has extra impacts.                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                | Minimise the use of mains water on sites through the use of recycling and run-off water in processes.                                                                                                                                                                               | 4           | There is no mains water used in the processing of sand. Mains water is used only for site office requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SW5       | Erosion                           | Erosion around the site will increase the level of suspended particulate                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                | Vegetate exposed areas, cover mounds of soil, overburden and waste either physically or with                                                                                                                                                                                        | 3           | No soil or overburden dumps have been created on site. Surrounding areas and mounds etc have mainly been vegetated through natural regeneration. Not all areas are vegetated. No problems of erosion identified on site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| Impact No | Source of Environmental Risk(s)       | Specific Potential Environmental Impact(s)                                                                       | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|---------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SW6       | Site Drainage / Water Management Plan | matter. This may place increased pressure on the settling systems and could increase the risk of silt pollution. |                                         | <p>vegetation.</p> <p>Progressively restore areas and line water channels.</p> <p>Where practical clean water run off (such as from roofs) should be separated from dirty water and discharged directly from site (or collected if required). Drainage plans should be held for the site indicating where all site run-off reports. Where formal foul and surface water systems exit on site these should be shown on a site plan and any appropriate drain covers marked to indicate where fouls or surface exit.</p> | 3           | <p>There are no arrangements on site to separate clean water from the dirty water system for discharge of water containing suspended solids.</p> <p>The site does not hold a drainage plan. The consent for the septic tank includes a plan of the site indicating the location of the septic tank. There are no mains linked foul or surface water drainage systems on site.</p> |

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## 6.15 TRANSPORT (OFF-SITE EFFECTS)

| Impact No | Source of Environmental Risk(s)                                   | Specific Potential Environmental Impact(s)                                                                                                                                                                                                              | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                               | Audit Score | Audit Comments                                                                                                                                                                                                                                   |
|-----------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| T1        | Ingress to and egress from site                                   | Can cause disturbance to local community, and impacts may be especially bad during early morning, late evening and at night                                                                                                                             | Sensitive routing should, if possible, be adopted in order to avoid residential or other sensitive areas. The local Highways Agency could issue Weight Restriction Orders on particular routes, or Routing Agreements could be signed by mutual undertaking.<br><br>Consideration should be given to alternative means of transportation, such as rail for long distance movements (if facilities are available), or conveyor systems to adjacent sites if applicable.<br><br>Additional care should be taken to inform drivers unfamiliar with the site of any relevant local environmental considerations | Review site access and establish whether effects on congestion etc. are significant. Consideration should be given to sensitive routing (see General Possible Improvement Measures)                                                                                                    | 3           | The route taken by road haulage is entirely dependent on customer requirements. The site is not aware of any sensitive routing issues. A safe site entrance has been provided. No significant congestion effects have been identified.           |
| T2        | Dirt on vehicles leaving site                                     | May create dust, which can cause both a nuisance and adverse impacts on ecology and water resources<br><br>Can also be classified as 'litter' - the deposit of which is an offence. In large quantities it could also cause a hazard to other motorists |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ensure that vehicles leaving the site are wheel-washed                                                                                                                                                                                                                                 | 3           | There is no wheel wash equipment on site. Loaded vehicles are not covered. The road in the vicinity of the entrance is cleaned with a road sweeper on a regular basis approximately every 3 weeks.                                               |
| T3        | Accidental spillage of aggregate on roads                         | Can be classified as 'litter' - the deposit of which is an offence. In large quantities it could also cause a hazard to other motorists                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Loads should be properly loaded, trimmed and sheeted as appropriate.                                                                                                                                                                                                                   | 3           | Loaded vehicles are not sheeted. The road in the vicinity of the entrance is cleaned with a road sweeper on a regular basis approximately every 3 weeks. There was no evidence of spillage on the public highway during the course of the audit. |
| T4        | Poor parking facilities on site                                   | If vehicles are forced to park on local roads instead of within the site, this can create congestion and parking problems (particularly overnight)                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sufficient car parking should be provided on site. If not, off site parking should take account of the likely effects on local residents                                                                                                                                               | 5           | There are sufficient car parking facilities on site.                                                                                                                                                                                             |
| T5        | Aggressive driving, conveying, and other inconsiderate activities | Can antagonize local residents                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Site should have written policy on conduct and controls expected from drivers.<br><br>Drivers should drive according to the Highway Code, and should take particular care during early morning, late evening and at night.<br><br>Horns should not be used unless absolutely necessary | 3           | The company has not produced a specific document with a written policy on conduct and controls expected from drivers.                                                                                                                            |

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| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s) | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                    | Audit Score | Audit Comments                                                                                            |
|-----------|---------------------------------|--------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------|
| T6        | Backhaul materials              | Road Traffic                               |                                         | Where materials are being imported to a site, backhaulage should be adopted to minimise road traffic generated by the site. | 3           | No materials are imported to this site.<br>There are few opportunities for backhaulage at this operation. |

# Environmental Audit

## 6.16 WASTE MANAGEMENT

| Impact No | Source of Environmental Risk(s)    | Specific Potential Environmental Impact(s)                                                                                                                      | General Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                         |
|-----------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WM1       | Waste minimisation                 | Minimising the amount of waste disposed to landfill can cut bottom line cost and reduce environmental risk                                                      | All waste management and transfers should be in accordance with the Duty of Care.<br>Waste should be kept in a suitable container that prevents it escaping including as a result of vandalism. It should also prevent rain water infiltration of the facility as this could result in pollutants being 'leached out'.<br>Waste storage facilities should be on areas of hard standing away from surface water drains and water courses.<br>Waste should only be transferred to carriers licensed to take the particular type of waste being consigned. All transfer notes should be retained for a minimum of 2 years.<br>Special waste i.e. material that is considered difficult to treat, keep or dispose of, should be managed in accordance with the special waste regulations. Categories of special waste should not be mixed and special waste should not be mixed with general controlled waste.<br>Special waste should be stored in suitable containers. | With all waste look to apply the waste hierarchy:<br>1. Reduce the amount of waste<br>2. Re-use as much as possible<br>3. Recycle<br>4. Dispose of responsibly to landfill                                                                                                                                                                                                                                                                                                                                                     | 4           | Types of waste generated at the site include:<br>Canteen, weighbridge and office waste in wheeltie<br>Scrap steel on an occasional basis<br>Oily wastes/filters in relatively small quantities<br>Batteries in limited numbers.<br>There is no waste minimisation programme in place.                                                                                  |
| WM2       | Mineral working waste              | Poorly stored and managed mineral working waste can cause nuisance through dust and intrusion into visual amenity. It may also cause pollution if contaminated. | Operators must develop an appropriate waste management plan for all non saleable arisings from the workings.<br>Use uncontaminated mineral waste for landscaping.<br>Try to vegetate waste heaps.<br>Ensure that waste mineral working material is stored within the site and that it is located in an area to reduce visual intrusion to sensitive properties.<br>Where practical ensure it is contained within the sites water management system so that run off is subject to the same controls as other water on the site.                                                                                                                                                                                                                                                                                                                                                                                                                                       | Operators must develop an appropriate waste management plan for all non saleable arisings from the workings.<br>Use uncontaminated mineral waste for landscaping.<br>Try to vegetate waste heaps.<br>Ensure that waste mineral working material is stored within the site and that it is located in an area to reduce visual intrusion to sensitive properties.<br>Where practical ensure it is contained within the sites water management system so that run off is subject to the same controls as other water on the site. | 4           | All material offloaded from sand barges is processed through the sand classification plant to produce useful products. Some very fine silty material is returned to Lough Neagh via the discharge from the sand plant. Material from the oversize screen is stockpiled for sale. Any fine silty sand which is not returned to Lough Neagh is also stockpiled for sale. |
| WM3       | Waste containers                   | Inadequate waste containers may allow waste to escape into the environment via natural processes or through vandalism.                                          | Waste containers should be robust and suitable for the material to be stored in them. They should prevent waste escaping into the environment and should not allow water to leach out pollutants. They should deter vandalism i.e. be lockable or be located in a secure area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Waste containers should be robust and suitable for the material to be stored in them. They should prevent waste escaping into the environment and should not allow water to leach out pollutants. They should deter vandalism i.e. be lockable or be located in a secure area.                                                                                                                                                                                                                                                 | 4           | 1 wheeltie bin provided at weighbridge. Double skinned tank is provided for bilge waste oil. Waste oil filters are kept in drums in garage workshop. Drums are provided for oily rags and contaminated absorbent materials.                                                                                                                                            |
| WM4       | Siting of waste storage facilities | Facilities stored on permeable ground or near surface water systems will                                                                                        | Waste facilities should be stored on hard standing of sound integrity, away from surface water systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Waste facilities should be stored on hard standing of sound integrity, away from surface water systems.                                                                                                                                                                                                                                                                                                                                                                                                                        | 3           | No flammable waste located next to buildings.                                                                                                                                                                                                                                                                                                                          |

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| Impact No | Source of Environmental Risk(s)                                                                      | Specific Potential Environmental Impact(s)                                                                                                                                                                                                                                                                                                                                                                                                                                     | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                                                                                                                                                                                                                                                  | Audit Score | Audit Comments                                                                                                                                                                                                                                                                                                                                                               |
|-----------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WM5       | Waste management / carriers licences (As & when the Waste Management Licensing regime is introduced) | reduce the length of the pollution pathway and increase the probability of pollution being caused.<br>The Duty of Care and Special Waste regulations place an obligation on consignors to ensure that third parties are competent and will manage waste on their behalf in accordance with regulations.<br>Unlicensed contractors may not adhere to the regulations and waste may cause pollution e.g. fly tipping. This could in turn result in prosecution of the consignor. |                                         | Flammable waste should not be sited next to buildings.<br><br>Ensure all waste management contractors and carriers used are licensed to manage the wastes that are to be consigned.<br>Obtain copies of their licences.<br>Verify licenses with the regulator.<br>Ensure a waste management licence is gained for any process that may require licensing. If the process is exempt ensure there is written confirmation of the exemption. | 3           | The production manager maintains records of licensed contractors and carriers at the head office. These records are not available at site.<br>Carriers' Licences held:<br>Mc Quillan Envirocare Ltd expiring 13/03/2007<br>Atlas Environmental (NI) Ltd expiring 16/01/2006<br>Thomas Hamill & Sins expiring 07/03/2006                                                      |
| WM6       | Waste transfer notes and consignment notes                                                           | Correctly completed controlled waste transfers and consignment notes detail what wastes have been consigned. They provide valuable evidence in proving compliance with the regulations.                                                                                                                                                                                                                                                                                        |                                         | Ensure controlled waste transfer notes and consignment notes are collected.<br>Ensure they are completed correctly, including an accurate description of waste consigned.<br>Ensure that the description adequately covers all the waste types in the skip.<br>Retain transfer notes for a minimum of 2 years and consignment notes for a minimum of 3 years.                                                                             | 4           | The production manager maintains records for waste transfer notes at the head office. These records are not available at site. Transfer Notes held:<br>Lisburn City Council for period 01/06/05 and 31/05/06 for wheelle bins for domestic and general office waste.<br>Septic tank emptied 08/10/04<br>Oil filters Special Waste Consignment Note DA 0013929 dated 08/01/04 |

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| Impact No | Source of Environmental Risk(s) | Specific Potential Environmental Impact(s)                                                                                                                                                              | General Possible Improvement Measure(s) | Specific Possible Improvement Measure(s)                                                                                                                                                                           | Audit Score | Audit Comments                            |
|-----------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------|
| WM7       | Waste segregation               | Failure to segregate waste could result in Special waste being co-disposed with non-special waste in a facility not able to cope with hazardous material. This may lead to contamination and pollution. |                                         | Special waste should be handled and stored separately from non-special controlled waste.<br>Different categories of special waste should not be mixed.<br>Ideally active and inactive wastes should be segregated. | 3           | Wastes are handled and stored separately. |