



Civil Construction  
WSIB Safety Group



**OSWCA**

365 Brunel Road, Unit 1  
Mississauga, Ontario, L4Z 1Z5  
Tel:(905) 507-1107 \*Fax:(905) 890-8122

5045 Orbitor Drive, Unit 12, Suite 300  
Mississauga, Ontario, L4W 4Y4  
Tel:(905) 629-7766 \*Fax:(905) 629-0587

**PHYSICAL DEMANDS ANALYSIS**

**JOB TITLE:** Dump Truck Operator

**COMPLETED BY:** David Sewell, BA (Kin), CK  
**DATE COMPLETED:** October 26, 2004

**JOB PURPOSE:** Drive and operate a Dump Truck to remove excavated materials from the construction site and to deliver required construction materials to work sites.

**ESSENTIAL JOB DUTIES:**

1. Visual inspection of machine prior to operation
2. Oil and lubricate machine on a fixed schedule
3. Drive Dump Truck to predetermined location for loading
4. Drive Dump Truck to predetermined area for unloading
5. Operate Dump Truck to tilt the bin and empty load
6. Report any malfunctions in machine operation to foreman to arrange for repairs
7. Clean cab of Dump Truck at the end of each shift
8. Signalman as needed

**EQUIPMENT/SAFETY REQUIREMENTS:**

1. Hard Hat
2. Safety Vest
3. Safety shoes/boots
4. Hearing protection



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Physical Demands Checklist

| Position Title: Dump Truck Operator |                          | Completed By: David Sewell, BA (Kin), CK<br>Certified Kinesiologist |         |  |          |             |          |  |   |
|-------------------------------------|--------------------------|---|---------|--|----------|-------------|----------|--|---|
| Date Completed:<br>October 26, 2004 |                          |   |         |  |          |             |          |  |   |
| Physical Demands                    | Check if Performed       | Weight (lbs.)   |         | *Frequency                               |          |             |          | Comments   |   |
|                                     |                          | Maximum   | (Usual) | 1. Seldom                                | 2. Minor | 3. Required | 4. Major |  |   |
| Strength                            | 1. Lifting               | X   | 10      | 5  |          | X           |          | Lifting of oil and grease to perform routine maintenance on Dump Truck, performed once per day   |   |
|                                     | 2. Carrying              | X   | 10      | 5  |          | X           |          | Carrying of oil and grease to perform routine maintenance on Dump Truck, performed once per day  |   |
|                                     | 3. Pushing               | X   | 5       | (5)                                      |          |             | X        | Operating box controls   |   |
|                                     | 4. Pulling               | X   | 30      | (5)                                      |          |             | X        | 30 lbs static force required to open release latch to access oil reservoir, performed twice per day. Operating movement and box controls |   |
|                                     | 5. Fine Finger Movements | X   |         |  |          | X           |          | Performed to operate Dump Trucks lights and wipers   |   |
|                                     | 6. Handling              | X   |         |  |          |             | X        | Performed to operate movement controls and box controls  |   |
|                                     | 7. Gripping              | X   |         | 9 lbs force unilateral right and/or left |          |             |          | X  | Performed to operate movement controls and box controls |
|                                     | 8. Reaching              | Above Shoulder  | X       |  |          |             | X        |  | Performed during entry and exit of the Dump Truck       |
|                                     |                          | At Shoulder   | X       |  |          |             |          | X  | Performed to operate movement controls and box controls |
|                                     |                          | Below Shoulder  | X       |  |          |             | X        |  | Perform for machine inspection and general cleaning     |
| 9. Foot Action                      | 1. Foot                  | X   |         |  |          |             | X        | Performed to operate movement controls   |   |
|                                     | 2. Feet                  | X   |         |  |          |             | X        | Performed to operate movement controls   |   |
| 10. Throwing                        |                          |   |         |  |          |             |          | Not Observed   |   |



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|                    |                            |              |   |  |  |   |  |   |
|--------------------|----------------------------|--------------|---|--|--|---|--|---|
| Mobility           | 11. Sitting                |              | X |  |  |   | X  | Worker seated while operating Dump Truck              |
|                    | 12. Standing               |              | X |  |  | X |  | Performed while inspecting Dump Truck                 |
|                    | 13. Walking                |              | X |  |  | X |  | Performed while inspecting Dump Truck                 |
|                    | 14. Running                |              |   |  |  |   |  | Not Observed  |
|                    | 15. Climbing               |              | X |  |  | X |  | To enter and exit the cab of the Dump Truck           |
|                    | 16. Bending/Stooping       |              | X |  |  | X |  | Performed for machine inspection and general cleaning |
|                    | 17. Crouching              |              | X |  |  | X |  | Performed for machine inspection and general cleaning |
|                    | 18. Kneeling               |              |   |  |  |   |  | Not Observed  |
|                    | 19. Crawling               |              |   |  |  |   |  | Not Observed  |
|                    | 20. Twisting               |              | X |  |  |   | X  | Neck rotation required when driving                   |
|                    | 21. Balancing              |              | X |  |  | X |  | Enter & Exit Dump Truck                               |
| Sensory/Perceptual | 22. Hearing                | Conversation | X |  |  | X |  | Receive instructions from foreman                     |
|                    |                            | Other Sounds | X |  |  |   | X  | Monitor machine operation                             |
|                    | 23. Vision                 | Far          | X |  |  |   | X  | Required while driving Dump Truck                     |
|                    |                            | Near         | X |  |  |   | X  | Required while operating Dump Truck and box controls  |
|                    |                            | Colour       | X |  |  |   | X  | Required while driving Dump Truck                     |
|                    |                            | Depth        | X |  |  |   | X  | Required while driving Dump Truck                     |
|                    | 24. Perception             | Spatial      | X |  |  |   | X  | Required while operating Dump Truck and box controls  |
|                    |                            | Form         | X |  |  |   | X  | Required while operating Dump Truck and box controls  |
|                    | 25. Feeling                |              | X |  |  |   | X  | Required while operating Dump Truck and box controls  |
|                    | 26. Reading                |              | X |  |  | X |  | Reading delivery ticket                               |
|                    | 27. Writing                |              |   |  |  |   |  | Not Observed  |
| 28. Speech         |                            | X            |   |  |  | X | Required to interact with foreman and crew |   |
| Work Environment   | 29. Inside Work            |              |   |  |  |   |  | Not Observed  |
|                    | 30. Outside Work           |              | X |  |  |   | X  | Dump Trucks are operated outside                      |
|                    | 31. Hot/Cold               |              | X |  |  |   |  | Climate controlled cab                                |
|                    | 32. Humid/Dry              |              | X |  |  |   |  | Climate controlled cab                                |
|                    | 33. Dust                   |              | X |  |  |   | X  | Dump Truck frequently operates on dirt base           |
|                    | 34. Vapour Fumes           |              | X |  |  | X |  | Oil and lubricating machine                           |
|                    | 35. Noise                  |              | X |  |  |   | X  | Constant noise produced from machine                  |
|                    | 36. Moving Objects         |              | X |  |  |   | X  | Dump Truck is constantly in motion                    |
|                    | 37. Hazardous Machines     |              | X |  |  |   | X  | Dump Truck, other construction equipment              |
|                    | 38. Electrical             |              | X |  |  |   | X  | Dump Truck's electrical system                        |
|                    | 39. Sharp Tools etc.       |              |   |  |  |   |  | Not Observed  |
|                    | 40. Radiant/Thermal Energy |              | X |  |  |   | X  | Heat from machine                                     |
|                    | 41. Slippery               |              | X |  |  | X |  | Dump Truck entry when raining                         |
|                    | 42. Congested Worksite     |              |   |  |  |   |  | Not Observed  |



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|  |                                     |   |  |  |  |   |   |                            |   |
|--|-------------------------------------|---|--|--|--|---|---|----------------------------|---|
| Conditions of Work   | 43. Traveling                       | X |  |  |  |   | X | Drive to and from worksite |   |
|  | 44. Work Alone                      |   |  |  |  |   |   |                            | Not Observed  |
|  | 45. Work Independently but in group | X |  |  |  |   |   | X                          | Dump Truck operators work independently, but as part of a crew                |
|  | 46. Deadline Pressures              | X |  |  |  |   |   | X                          | Dump Truck operators are expected to maintain pace with other members of crew |
|  | 47. Interact with Public            | X |  |  |  | X |   |                            | Not Observed  |
|  | 48. Operate Equipment/Machinery     | X |  |  |  |   |   |                            | X   |
| <p><b>*Frequency (The frequency of maximum weight should be shown without brackets and the frequency of usual weight, within brackets.)</b></p> <p>1. Seldom Performed - Not Daily<br/>         2. Minor Daily Activity - Less than 1 Hour<br/>         3. Required - Frequent Repetition, for 1-3 Hours Daily<br/>         4. Major Job Demand, Maximum ability required, Frequent Repetition for more than 3 Hours Daily</p> |                                     |   |  |  |  |   |   |                            |   |