RISK ASSESSMENT

STG Global HDV4500













Is the plant safe to operate?

HDV4500 RISK ASSESSMENT

Clients Name: STG Global			Date of assessment:	October 2017	
Machine Make & Model: STG Global HDV4500					
Capacity Limits: 4500 LITRES					
Certification of operator required: Yes					
Is the plant designed to perform the task as outlined in the scope?	Yes X	No 🗌			
Has the plant been modified from the original condition?	Yes □	No X			
All identified action items closed out/addressed?	Yes X	No 🗌			

	STEP 1: Likelihood of Occurrence		STEP 2: Severity of Result
1.	Expected to Occur (once per week)	Α	Fatality
2.	Common (once per month)	В	Permanent Disability
3.	Sometimes (once per year)	С	Lost Time Injury (LTI)
4.	Rarely (once in < 20 years)	D	Medical Treatment / Damage
5.	Highly Unlikely (once in > 20 years)	E	First Aid Injury

STEP 3: A B C D E

1 H H M M M

2 H H M M L L

4 M M L L L

5 M L L L L

Yes X

No 🖂

STEP 4: Hazard Risk Assessment

H = High Risk (INTOLERABLE, significant and urgent actions required- Immediate Action).

M = Medium Risk (ALARP, reduce risk to As Low As Reasonably Practicable).

L = Low Risk (TOLERABLE, monitor and manage risk).

If all suggested controls are implemented by the operator and management

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Report Acceptance

General Notes

The Owner/Operator of the above Plant/Equipment Must perform an inspection at regular intervals, that all procedures and control methods are maintained to an acceptable level where the level of risk to any person in increased. When any alteration or modification is made to the Plant/Equipment, a review of both Control Methods and Documentation must be made. The Owner/Operator must read, understand, implement, monitor and review all documentation and control measures as per SWMS.

A Plant Risk Assessment must be performed by the owner/operator upon acceptance of plant and at regular intervals with a minimum of 12 months between assessments.

<u>Confidentiality</u> <u>Disclaimer</u>

Information obtained from **STG Global** during the production of this report will be treated as confidential. It will not be used for any purpose other than to produce this report.

This report has been prepared by Donovan's Construction Services Pty. Ltd. for determining compliance to Work health and safety legislation and standards.

The contents of this report are intended only for use by **STG Global.** Whilst every effort has been made by Donovan's Construction Services Pty. Ltd. to ensure the accuracy of this report. Donovan's Construction Services Pty. Ltd. will not be held responsible, and extends no warranties as to the suitability of such information or for the consequence of its use.

Likewise, Donovan's Construction Services Pty. Ltd. will not be held responsible for actions taken by third parties because of information contained in this report.

John Donovan Assessor

THIS RISK ASSESSMENT DOCUMENT IS VALID FOR TWELVE (12) MONTHS FROM THE DATE OF ISSUE



				Likelihood (How	Often)		Elimination	The complete elimination of the h	azard	
	Consequence (How Bad)	Α	В	С	D	Е				
		Common	Has Happened	Could Happen	Not Likely	Nearly Impossible	Substitution	Replacing the material or process	s with a less hazardous one	
1	Fatality/Catastrophic Environmental Impact	1	2	4	7	11	Redesign	Redesign the equipment or work	processes	
2	Serious Injury (LTI at > 7 Days) / High Criticality	3	5	8	12	16	Separation	Isolating the hazard by guarding of	or enclosing it	
3	LTI / Moderate Impact	6	9	13	17	20	Administration	Providing controls such as training	g, procedures, etc	
4	Moderate Impact (Non lasting effects)	10	14	18	21	23	PPE	Use properly fitted PPE where oth	ner controls are not practicable	
5	Minimal Impact / Minor Injury	15	19	22	24	25	Date:	Site/Office:		
Cor	mpleted: Yes						Originator:			
	No – Reaso	n:	·		·	<u> </u>	Signature: Date:			



Hazard Type	Hazard	Control Methods in Place	Risk	Comments / Recommended Improvements/ DESCRIPTION	Residual Risk Score	Reasonably Practicable Yes /No
ENTANGLEMENT Can anyone's, hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags or other materials become entangled with moving parts of the plant, or materials in motion?	Moving Parts in engine areas, such as belts, wheels and pullies.	Guard Sheilds installed Warning Decals for Personal (i.e. Do not operate with guards removed etc) Engine covers fitted	8	 Trained competent personnel to carry out maintenance operations only. Guards to be removed by trained personnel only for maintenance and servicing purposes. Do not remove Guards during operations Daily inspections to be carried out by personnel trained and competent in plant operations. Keep hands, feet, hair, and clothing away from moving parts. Contact with a moving mechanism can cause entanglement that can lead dismemberment or death. Review operators manual 	12	Yes



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CRUSHING Can a person be crushed due to: Falling, uncontrolled or unexpected movement of plant during pre-inspection, operations and post inspections. Lack of capacity to slow, stop or immobilise the plant Falling, uncontrolled or unexpected movement of plant's load Under or trapped between plant and materials or fixed structure Contact with moving parts during testing, inspection, maintenance, cleaning Tipping or rolling over Parts of plant collapsing Being thrown off Other – specify:	Crushing Hazard at tail gate when closing. Uncontrolled movement of the plant Tank uncontrolled drop when been elevated	Emergency stop buttons in place that will shut down all components of the plant. Remote control operations allows for operators to be clear of the machine when in operation and conducting tasks such as disposing of loads. Four hydraulic ramps unlocks the tail gate of the tanks. Two hydraulic ramps open the gate and two hydraulic rams lift the tank to dispose of the materials. Pressure protection valve and Anti Drop Valve fitted. Remote operations protect operator in the event of component failures. Training for all operators of the plant.	8	 Ensure the machine is set up on stable level ground with wheels chocked to prevent uncontrolled movements, during Servicing, pre-inspection, operations and post inspections. Operational checks must be conducted by trained competent personnel only. The guardrail must be erected to prevent falls from heights. Ensure all persons stand clear when disposing of materials. Exclusion Zone of 10m to be established during operations 	12	Yes

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Hazard Type	Hazard	Control Methods in Place	Risk	Comments / Recommended Improvements/ DESCRIPTION	Residual Risk Score	Reasonably Practicable Yes /No
Cut, Stab, Punctured Can anyone be cut, stabbed or counctured due to Coming into contact with moving parts of the clant during testing, inspection, operation, maintenance, cleaning or repair of the plant? Moving plant or parts Sharp of flying objects Work pieces disintegrated Work pieces ejected The plant, parts of the plant or work pieces disintegrating? Nork pieces being ejected?	Contact with Hydraulic Ramps Whilst in operation Moving Parts in Engine areas.	Guard Sheilds installed Warning Decals for Personal (i.e. Do not operate with guards removed etc) Engine covers fitted Maintenance of equipment to be carried out as per manufacturers recommendations Signage in place on the equipment prohibiting the removal of guards during operations.	13	 Remote operations to be used during plant operations. This will prevent contact between the operator and the Hydralic ramps. Do not remove any gurads that Protect moving components, trained Personnel to carry out servcing Operator to be trained and competent in equipment operation, testing and inspection Qualified competent personnel to carry out maintenance, cleaning or repair. PPE to be worn at all times during operations Refer to the manufactures operator and maintenance manual. Pre-Start checks to be carried out daily. Not to be operated with guards removed, or any modification to be made to the equipment. Exclusion Zone of 10m to be established during operations 	17	Yes

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Hazard Type	Hazard	Control Methods in Place	Risk	Comments / Recommended Improvements/ DESCRIPTION	Residual Risk Score	Reasonably Practicable Yes /No		
SHEARING Can anyone's body parts be sheared between any two parts of the plant, or between a part of the plant and a work piece or structure?	Crushing Hazard at tail gate when closing. Uncontrolled movement of the plant Tank uncontrolled drop when been elevated Roller Door Slaming Shut when closing.	Use of wireless remote to prevent operator from been in the line of fire. Signage in place to warn operator not to climb onto the upper platform. Signage in place to warn operator to isolate plant and equipment prior to climb onto the upper platform. Handles on storage units Retrievable cords for closing roller shutters	8	 Isolation of the machine when climbing onto upper platform. This will prevent body parts been sheared due to uncontrolled movement of boom and moving components at the rear of the plant. Wheels to be chocked at all times during operation except in transit. Retrevable cords to be used when closing roller shutters of Engine block Handles of all doors and compartment to be used when opening and closing. Site risk assessment to be conducted prior to the commencement of work. Ensure your operators familiarise themselves with the work location. Exclusion Zone of 10m to be established during operations 	12	YES		
Hazard Type	Hazard	Control Methods in Place	Risk	Comments / Recommended Improvements/ DESCRIPTION	Residual; Risk Score	Reasonably Practicable Yes /No		
FRICTION/BURN HAZARD Can anyone be burnt due to contact with moving parts or surfaces of the plant, or material handled by the plant?	Suction Hose can become hot during operations . Vaccum Pump can become hot during operations. Refuelling	Insulation of hoses Training of operators Do not touch hot fluid or equipment	14	 Avoid contact with the vacuum pump during or immediately after operation. Operating temperatures can range from near 200oF to over 00oF, depending on the make and model of pump and on the working conditions. Contact with a hot vacuum pump can cause severe burns. Do not touch hot fluid or equipment 	21			

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Hazard Type	Hazard	Control Methods in Place	Risk	Comments / Recommended Improvements/ DESCRIPTION	Residual Risk Score	Reasonably Practicable Yes /No
				 Do not touch exhaust pipe of Truck unless you are a trained professional carrying out maintenance or repairs Refuelling to be carried out in designated areas. Ensure spill kits are available and shutdown valvue of the pump is avaible. Conduct a risk assessment of the refueling station 		
STRIKING Can anyone be struck by moving objects due to: The plant, parts of the plant or work pieces disintegrating? Plant or work pieces being ejected or disintegrated Uncontrolled or unexpected plant movement Mobility Other – specify:	Striking can occur due to uncontrolled movement from the Truck, Boom, moving engine components and pipe blow out.	Remote control used during operations. Wheels chocked. Signage in place to warn operators Training of operators	8	 Isolatioon of plant Prior to climbing onto upper platform. Do not remove guards protecting moving components. Checks to all clamps prior to use to ensure they are in good working order, free of cracks and stresses. Reporting of issues to ensure they are repaired prior to continued use. Maintenance of equipment to be carried out as per manufacturers recommendations. 	12	YES
Hazard Type	Hazard	Control Methods in Place	Risk	Comments / Recommended Improvements/ DESCRIPTION	Projected Risk Score	Reasonably Practicable Yes /No
High Pressure Fluid. Can anyone come into contact with fluid	Hydraulic oil	All pipe clams fitted Pressure protection valves and Anti Drop valves fitted to hydraulic system. High pressure warning decals	5	Hydralic Fluid lines to be inspected daily, cracks, tears and deformed lines must be reported and repaired prior to use.	12	



GLUBAL				HDV43UU KISK ASSESSIVIEN I						
Hazard Type	Hazard	Control Methods in Place	Risk	Comments / Recommended Improvements/ DESCRIPTION	Residual Risk Score	Reasonably Practicable Yes /No				
Pressurized Aluminium Parts Hazard Use of incompatible fluids	NII	Only fluids specified in the manufacturers recommendations to be used with this equipment	Nil	Any attachments to the Plant and or extra parts added need to be risk assessed to ensure Safety	Nil	Nil				
Hazard Type		Control Methods in Place	Yes / No	Comments / Recommended Improvements/ DESCRIPTION	Projected Risk Score	Reasonably Practicable Yes /No				
Thermal Expansion Hazard Fluids subjected to heat in confined spaces, including hoses, can create a rapid rise in pressure due to the thermal expansion. Over- pressurization can result in equipment rupture and serious injury.		Open valve to relieve the fluid expansion during heating Replace hoses proactively at regular intervals based on operating conditions								
Thermal expansion of equipment and hoses										

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GLUDAL			HDV43UU KISK ASSESSIWI					
Hazard Type	Hazard	Control Methods in Place	Risk	Comments / Recommended Improvements/ DESCRIPTION	Residual Risk Score	Reasonably Practicable Yes /No		
This equipment must be grounded. Improper grounding, setup, or usage of systems can cause electric shock Can anyone be injured by electrical shock or burn due to: The plant contacting live electrical conductors? Damaged or poorly maintained electrical leads and cables Damaged electrical switches? Servicing equipment	systems Static Electricity can be caused from soils and debris been sucked up into the hose. It can Also be created using the blower Welding on Equipment with Electronic Controls	All electrical components are to manufacturers recommendations. All electrical equipment must be maintained, Tested and Tagged every 3 months by Qualified personnel Prior and post use checks must be carried out by the operator to ensure safe use Turn off and disconnect power at main switch before disconnecting any cables and before servicing equipment. Conductive hoses shall provide suitable electrical conductance less than or equal to 1 mega ohm per 100 feet (as determined by the hose manufacturer). Thin walled metallic spiral-wound conductive hoses should not be used because of the potential for electrical discharge through the thin plastic thatcovers the metal spiral.	13	Do not set up near overhead powerlines It is important to ensure Bounding and Grounding of the Plant to reduce the risk of Staftic Electricity, maintain proper battery usage and damage to the panel Always use the checklist when conducting operations and ensure the operator manaual has been read and understood by all persons involved in the operations and works Ensure an Exclusion Zone of 10m Circuit Breakers must be maintained Ensure proper welding procedures are carried out and ensure procedure in the manual are read and understood. Do not ground the welder to electrical components such as the control ground or sensors. Improper grounding can cause damage to electrical components Clamp the ground cable from the welder to the component being welded. Place the clamp as close as possible to the weld to reduce the possibility of damage	17	YES		



Hazard Type	Hazard	Control Methods in Place	Risk	Comments / Recommended Improvements/ DESCRIPTION	Residual Risk Score	Reasonably Practicable Yes /No
FIRE AND EXPLOSION Flammable fumes, such as solvent paint fumes, in the work area can gnite or explode. During a fire smoke may contain priginal material in addition to combustion products of varying composition which might be toxic and/or irritating. Product reacts with water. Reaction may be violent and produce heat and/or gases.	Refuelling Hazard Smokers Flamable works been carried out in the workzone Electrical Ignitions	Fire Extinguseher on the truck Isolation of the plant and equipment signs in place	7	 Use equipment only in well ventilated area Eliminate all ignition sources such as pilot lights, cigarettes, portable electric lamps and plastic drop cloths (potential static arc) Keep work area free of debris, including solvent rags and gasoline Do not plug or unplug power cord, or turn power or light switches on or off when flammable fumes are present Ensure isolation of the plant and equipment prior to all works including refueling Ground all equipment in work area (refer to instructions in operator's manuals) Keep a working fire extinguisher in work area at all times (Water fog or fine spray, foam, carbon dioxide or dry chemical powder.) are suitable. An appropriate properly fitted respirator, which may include an air supply Ensure you read the operators manual prior to using the plant Ensure a risk assessment is carried out of the refueling depot 	11	YES

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Hazard Type	Hazard	Control Methods in Place	Risk	Comments / Recommended Improvements/ DESCRIPTION	Residual Risk Score	Reasonably Practicable Yes /No
SLIP/TRIP/FALL Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to: • Uneven or slippery work surfaces? • Lack of guardrails or suitable edge protection? • Lack of proper stairs or ladders? The working environment Poor housekeeping Uneven work surfaces Slippery work surfaces Lack of guardrails Other – specify:	Fall from the platform Falling from the truck Trip over hoses	Non slip surface Guardrails or suitable edge protection in place 3 point of contact warning decal fitted Ladder fitted to back of truck	9	 Also ensure that the plant is isolated to prevent uncontrolled movement of the boom. Three points of contact climbing onto the platform Tidy up as you go Keep hoses and pipe to the side to redcue the chance of tripping over them. Clean footwear of mud and debris prior to climbing onto the platform to reduce slips Do not climb onto the truck when inmontion Also read the operators manaual prior to using plant 	17	YES



Hazard Type	Hazard	Control Methods in Place	Risk	Comments / Recommended Improvements/ DESCRIPTION	Residual Risk Score	Reasonably Practicable Yes /No
SKIN INJECTION HAZARD High pressure fluid from gun, hose leaks or ruptured components will pierce skin. This may look like just a cut but it is a serious injury that can result in amputation. GET IMMEDIATE SURGICAL TREATMENT	Cracks and damaged hoses and piping Operating gerni/ presurised water hose	Maintenance of equipment Emergency shut down button Isolator Servicing	7	 Shut down plant immediately and report fault, do not continue until repaired by qualified personnel Engage trigger lock when not spraying Do not point gun at anyone or any part of the body Do not put your hand over the spray tip Do not stop or deflect leaks with your hand, body or a rag Follow the pressure relief procedure when you stop spraying and before cleaning, checking or servicing equipment Tighten all fluid connections before operating the equipment Ensure correct PPE is worn at all times Check hoses and couplings daily. Replace worn or damaged parts immediately 	11	YES



Hazard Type Hazard		Control Methods in Risk		Comments / Recommended Improvements/	Residual	Reasonably Practicable
		Place	RISK	DESCRIPTION	Risk Score	Yes /No
TOXIC FLUID OR FUMES HAZARD Toxic fluid or fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled or swallowed	Fumes from plant whislt working in confined space Sewage and Grains	Isloation of truck during vaccum, blowing and washing operations. Emergency shut down button Isolator Servicing	7	Refer to Safety data sheet for safe handling instructions, specific hazard of the fluids and the effects Keep work area well ventilated and wear appropriate PPE (refer to PPE warning in the manual and SDSI) Store hazardous fluid in approved containers and dispose of it accordingly to application guidelines and Environmental management plan Confined Space permit required for all operations conducted with in confined spaces. Risk assessment to be carried out prior to all operations	11	YES
PERSONNEL PROTECTIVE EQUIPMENT PPE must be worn at all times to protect the operators from the hazardous effects of the task	Refuelling Sewage Confined space Asbestos Fumes Other works in the work area	Signage on the truck to reinstate the importance PPE stored in the truck	9	 An appropriate properly fitted respirator, which may include an air supply Chemically impermeable gloves Full body suit including boot covers Use approved chemical glasses, goggles or face shield Maintain good hygiene keep area clean and tidy, wash hands regularly. Work area risk assessment to be conducted by operator prior to commencement of works Refer to SWMS 	17	YES



Hazard Type	Hazard	Control Methods in Place	Risk	Comments / Recommended Improvements/ DESCRIPTION	Residual Risk Score	Reasonably Practicable Yes /No
SUFFOCATION Can anyone be suffocated due to lack of oxygen or atmospheric contamination, refer to the Confined Spaces Regulations? Lack of oxygen Atmospheric contamination Other – specify:	Fumes from the Machine in confined Spaces Dealing with Grain and Sewage	SWMS Operators Manual Emergency shut down button Isolator	2	 Extra controls such as a gas detector to test air quality Breathing apparatus must be considered A properly fitted respirator, which may include an air supply Where product is being applied in a confined space ensure all work is conducted under a confined space permit Do not operate in any confined space with out a permit 	7	YES
UNCONTROLLED SPILLS Spills of fluids on to the ground, Avoid contamination of waterways, drains and sewers	Refueling	Spills kits to be located with the truck at all times including when not in use Emergency shut down button Isolator Servicing	4	 Spills kits to be located with the truck at all times including when not in use Ensure refueling in designated area Risk assessment to be conducted prio to refueling 	11	YES
Hazard Type	Hazard	Control Methods in Place	Yes / No	Comments / Recommended Improvements/ DESCRIPTION	Projected Risk Score	Reasonably Practicable Yes /No
ERGONOMIC (incl MANUAL HANDLING) – Can anyone be injured due to: Seating design Repetitive body movement Poor workplace or plant design Excessive effort Poor lighting Other – specify:	Strains to body	Remote control to operate the plant Appropriate adjustable seat fitted Seat Belts in good working order Access areas in good condition Wireless remote been used for operations Lighting to rear of plant	6	 Use three points of contact when climbing ladder or onto plant Work area risk assessment to be conducted by operator prior to commencement of works. Extra lighting may be required for night works or when there is poor visibility 	17	YES

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Hazard Type	Hazard	Control Methods in Place	Risk	Comments / Recommended Improvements/ DESCRIPTION	Residual Risk Score	Reasonably Practicable Yes /No
Can anyone be injured or suffer ill health from exposure to OTHER HAZARDS: Chemicals Vibration Toxic gases or vapours Fumes Noise Ionising Radiation Dusts Other – specify:	Noise Exposure due to prolonged periods of time Persons entering into the tank on the truck	SWMS Operators Manual Emergency stop button Isolation of Plant Signage in place	5	Wear hearing protection that meets 110 dB(A) Do not enter the tank of the machine without a permit to work in confined spaces	12	YES
DOCUMENTATION		Operator's Manual	N	To be implemented by owner/hirer Must be in cab at all times	L	
		Safety Data Sheet	N	To be implemented by owner/hirer Must be in cab at all times		
		Attachment instructions	N	To be implemented by owner/hirer Must be in cab at all times		
		Plant daily checklist in place	N	To be implemented by owner/hirer Must be in cab at all times		
		Maintenance records up to date	N	To be implemented by owner/hirer Must be in cab at all times		





Drivers Seat



Wheel Nut indicators installed





Emergency Stop Button loacted in the control panel along with the Isolation switch



Emergency Stop Button loacted at the rear of the machine.



Warning High Presure Air



Tank Raised height min 4.3 m



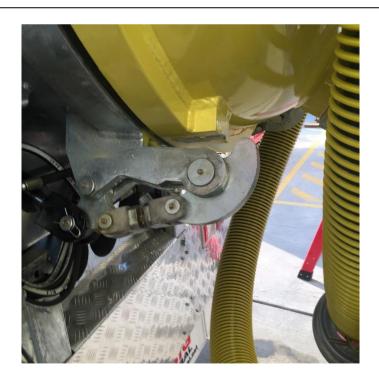


Inspection of the tank capacity during operation can be viewed through the glass Elements on the door



Remote control for the plant



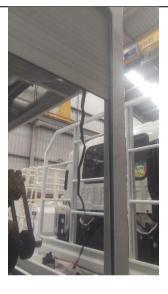


Door sealed using locking mechanisim



Door opening using Hydraulic Rams





Component used to retrive roller door on engine block



Deflection plate installed inside tank distriobute materilas evenly within the tank



Warning Isolate Plant and Equipment prior to climbing the ladder and platform



Handles on the roller door and lock





Do not drink the tank water



Warning sign at the rear of the vehicle frequently reversing.



Warning Hazard light on the module



Warning light at the rear of the vehicle.





Warning sign Crush Zone on tail gate of the Tank.



Location of fire Extinguisher





Fire Aid Kit located in the Cab of the Truck



Hydraulic Rams used to lift and tilt tank to empty contents.

Pressure protection valvue and Anti Drop Value installed to prevent uncontrolled movement in the event of a Hydraulic failure





Rubber ball to prevent overfill to be inspected daily



Tailgate lifted at fully height 3.8 m beaware of overhead powerlines



Acoustic Test Report STG Global HDV4500

The Acoustic Test Report for the STG Global HDV4500 was conducted on the 04/10/17 between 3 pm and 4 pm. The report was conducted in an isolated location with slight gusts of wind and little or no other background noise. The Report was conducted in order to assess the Acoustic decibels been omitted from the STG Global HDV4500.

Test Equipment:

The Equipment use for this assessment was a TroTec SL300. The SL300 meets the requirements for sound level meters of accuracy class 2 according to IEC 61672-1 and ANSI S1.4 and is ideally suited for the documentation of machine and environmental noise, for workplace measurements or expert assessments.

Test Procedure

The First Reading was taken to assess the Background noise of the environment at the time of testing. Then there were 5 readings taken of the machine running on full revs of 1900 RPM with the pressure washer and vacuum in operation. The readings were taken from 5 Distances as follows:

- 1. Operators perception
- 1 Meter from the machine
- 3 meters from the machine
- 5 meters from the machine
- 5. 10 meters from the machine

Test Results:

The Chart below shows the Lowest, Medium and highest readings recorded during the assessment from each distance, as shown in the Test set up.

Location	Low	Medium	High
Background Noise	39.9 (dBA)	44.8 (dBA)	54.1 (dBA)
Operations Perspective	96.6 (dBA)	98 (dBA)	102 (dBA)
1 Meter	85.1 (dBA)	89 (dBA)	95 (dBA)
3 Meter	76.1 (dBA)	84.4 (dBA)	90.1 (dBA)
5 Meters	81.2 (dBA)	84.2(dBA)	89 (dBA)
10 Meters	81.5 (dBA)	82.5 (dBA)	83.3 (dBA)

Main Sources of Noise:

The main sources of noise is the engine of the STG Global HDV4500. This engine is separate to the engine of the actually truck itself and operates the Vacuum, Blower and Pressure Washer. From the operator perspective is important that they wear hearing protection that defends against noises up to and including (110 dB). This will protect the operator hearing over an eight hour working day.



Acoustic Test Set up For STG Global HDV4500

