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AUCKLAND HARBOUR BRIDGE CONTRACT PSMC 003


Resource Consents for Discharge of Abrasive Blast Products

Annual Report - October 2004

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Approved for Release:



J Patman

4 / 11 / 4
Date

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1 INTRODUCTION

This report has been prepared for the Auckland Regional Council in accordance with the special conditions of consent as set out in the Resource Consent for the Auckland Harbour Bridge (AHB). This report covers the period from 1 October 2003 to 30 September 2004.

The Resource Consents have been granted to Transit New Zealand for the discharge of abrasive blasting products from abrasive blasting of the Auckland Harbour Bridge under the following Discharge Permits:

- Discharge Permit No. 23956 for discharge to air
- Discharge Permit No. 23954 for discharge to ground
- Discharge Permit No. 23955 for discharge to water

All conditions of these discharge permits are being complied with. In accordance with the special conditions of consent the following details are discussed:

- The location and extent of blasting, along with details of conditions
- The estimated quantity (in kg) of abrasive blasting products used
- Confirmation of the quantity of contaminants recovered, stored and disposed
- Confirmation that no more than 10m² of blasting has been carried out in those areas where lead paint is known to be present
- Confirmation that no abrasive blasting has been undertaken on surfaces coated with lead with concentrations greater than 5000 parts per million by weight in the dry film or containing other hazardous air pollutants
- Details of measures undertaken to avoid, remedy, or mitigate any adverse environmental effect
- Details of screens used and the areas where they are deployed
- Details of any complaints received, and their nature

The physical works contractor responsible for the painting of the AHB changed on 1 December 1998 from Serco to Total Bridge Services. The Total Bridge Services contract has a contract period of 10 years expiring on 30 November 2008. Total Bridge Services is a joint venture between TBS Farnsworth Limited, Fulton Hogan Limited and Opus International Consultants Limited.

2 DISCHARGE TO LAND AND WATER

2.1 Location and Extent of Blasting

Over the past twelve months the majority of the abrasive blasting, high pressure water blasting and maintenance painting was carried out on the original truss bridge in Spans 4, and 6 below the walkways, spans 1 and 3 above the main walkways and on the East Extension. Some blasting has been carried out over sealed areas where possible contaminants could enter the stormwater systems, these works are discussed below.

The areas painted include:

- Truss Bridge, Span 4, Below Walkway, Panel Points 4 – 8
- Truss Bridge, Span 6, Below Walkway, Panel Points 4 – 5
- Truss Bridge, Span 1, Above Walkways, Panel Points 8 – 15
- Truss Bridge, Span 3, Above Walkways, Panel Points 0 - 3
- East Extension External, Boxes 25 - 36
- Northern Extension Viaducts Trestle legs (TN2 and 3).

The total quantity of blasting media used over the past 12 months was 43,050kg. This is a significant increase compared to the year 2001-2002, however this figure is comparable to the usage in 2002-2003 (44,000kg). This increase compared to 2001/2 is mainly due to work focusing on the Original Truss Bridge and the increased paint areas completed.

The maintenance work of the original truss bridge under the walkway in span 4 included the coating of all external steel work from panel points 4-5 to 7-8. The total area coated in Span 6 of the original truss bridge was 2,643m². This area used a total of 13,000kg, which made up 30% of all media used in the past 12 months.

The maintenance work of the original truss bridge below the main walkway in span 6 included the coating of all external steel work within panel point 4-5. The total area coated in Span 6 of the original truss bridge was 6401m². This area used a total of 3500kg, which made up 8% of all media used in the past 12 months.

The maintenance work of the original truss bridge above the walkway in span 1 included the coating of all external steel work from panel points 7-8 to 14-15. The total area coated in Span 1 of the original truss bridge was 2296m². This area used a total of 14,500kg, which made up 34% of all media used in the past 12 months.

The maintenance work of the original truss bridge above the main walkway in span 3 included the coating of all external steel work from panel points 0-1 to 2-3. The total

area coated in Span 3 of the original truss bridge was 1,312m². This area used a total of 4,000kg, which made up 9% of all media used in the past 12 months.

The East Extension exterior maintenance works includes the recoating of the web and cantilever from box 25 to box 36. The total area of painting was 4,966m². It comprised of the outer web plate, outer cantilever, deck plate and longitudinal trough stiffeners. The total volume of blasting media used in this work package was 6,300kg, which made up 15% of all blasting media used in the last 12 months.

The trestle leg maintenance works includes the recoating of the east and west trestle legs TN2 and 3. The total area of painting was 360m². The total volume of blasting media used in this work package was 1,750kg, which made up 4% of all blasting media used in the last 12 months.

2.2 Abrasive Blasting Products

Quantity of Abrasive Blasting Products Generated

Details of abrasive blasting carried out on the Auckland Harbour Bridge between 1st October 2002 and 30th September 2003 have been tabulated and included in Appendix A. For each day the location of the blasting, the work hours, wind speed, wind direction, amounts and type of abrasive, and controls have been recorded. Table 1 below gives the approximate amount of abrasive blasting used in each part of the Bridge over the past 12 months. The period of blasting and prevailing wind direction is also given.

Table 1: Summary of Abrasive Blasting

Location of Blasting	Period	Approximate Amount of Abrasive Used (kg)	Prevailing Wind Direction
Truss Bridge, Span 4, Below Walkway, Panel Points 4 - 7	October - December 2003	9,000	SW
East Extension Externals, Boxes 25 - 36	December 2003 - March 2004	3,300	NE
Truss Bridge, Span 4, Below Walkways, Panel Points 7 - 8	16 February - 5 March 2003	4,000	SW
Truss Bridge, Span 1, Above Walkways, Panel Points 8 - 15	11 March 2004 - 7 April 2004	14,500	SW
East Extension Externals, Boxes	8 April 2004 - 30 April 2004	3,000	SW

31 - 36			
Truss Bridge, Above Walkway, Span 3, Panel Points 0 - 3	16 August 2004 – 1 September 2004	4,000	NW
Truss Bridge, Below Walkway, Span 6, Panel Point 4 - 5	8 September 2004 – 30 September 2004	3,500	SW
TN2/3	January 2004	1,750	NE

2.3 Contaminant Recovery

In accordance with the conditions of the resource consent it is necessary to minimise the discharge of blast media and paint debris as far as is practicable via capture and correct disposal where discharges are over seawater. Where discharges are over land, all debris is to be captured and removed to an appropriate treatment or disposal facility. During the past 12 months maintenance painting has been carried out over land (trestle legs TN2 and 3). In accordance with our consent these areas were swept and the debris recovered using a road sweeper truck each day blasting activities were carried out. The collected debris was disposed of by Fulton Hogan an approved hazardous dump north of Auckland. In addition to this contaminant recovery has been undertaken over the water where it has been deemed practicable. It has been found that by adopting a sensible, sympathetic approach to the maintenance operations discharge of contaminants has been kept to a minimum. The most effective method to date has been to restrict blasting to minimum practicable surface areas; i.e. spot blasting the corrosion rather than blasting the whole package, this has been successful in keeping the volume of debris from the old paint systems discharged to less than 0.05m³ per year. Assessments on the environment have shown that the effects from spillage of the coating products to be insignificant under normal working conditions. To date no excessive spills have occurred.

2.4 Surfaces coated with Lead

On the bridge there are only two locations where lead based paints are present, span 7 and inside the box extensions. Previously it has been estimated that only 0.051m³ of red lead paint per panel point remains on the bridge. No abrasive blasting or paint removal was undertaken in these areas over the past twelve months. It has been estimated in previous contracts that only a very small fraction of this paint (on average 5%, or 0.0026m³) is removed by the spot blasting involved in maintenance painting. The adopted philosophy regarding areas contaminated with lead is such that the corrosion will almost certainly reoccur in the same locations. This means that those areas have been blasted in the past thus removing all lead from the surfaces, any further blasting will only take off reapplied paint systems, which do not contain lead. If the area blasted is greater than has been previously cleaned then it has been found that the additional area is minimal.

2.5 Measures Undertaken to Avoid, Remedy, or Mitigate any Adverse Environmental Effects

Total Bridge Services over the past twelve months have continued to as far as practicable avoid, remedy, and mitigate any adverse effects on the environment from the abrasive blasting on the Auckland Harbour Bridge. Methods used include:

- From January 2002 we have exclusively been using more garnet abrasive, this has been instrumental in the reduction of abrasive dust generated whilst blasting. Garnet is more efficient due to its hardness and angular profile and therefore a lesser quantity is used to prepare the steel surfaces compared to basalt and other trailed abrasives.
- High pressure water blasting has continued to be used over the past twelve months to remove as much loose paint, scale and corrosion products from the surfaces as possible before abrasive blasting. Water blasting generates paint flakes rather than generating the dust associated with abrasive blasting. Following the water blasting, sweep blasting is used to obtain a surface profile for anchorage of the paint film.
- Continued development of alternative methods of paint removal. UHP waterblasting (water jetting) up to 30,000 psi has been trialled for paint removal over large flat areas – such as the extensions. The main advantage of this system as dust is minimised, as only a sweep blast is required prior to painting. The major negative impact of this machine is the noise it generates and hence working hours would be slightly reduced so the impact on our neighbours is minimised. The size of the lances used makes this method of preparation unsuitable on the original truss bridge. The option of using UHP as a permanent replacement to abrasive blasting where practicable is still currently under review.
- Surrounding businesses and residents are continually kept informed and updated on information relating to blasting and painting programmes at regular intervals. A survey was carried out of the local residents by Total Bridge Services to ensure that over the past twelve months that they were happy with the controls provided, included in the survey was the forward works programme for the remainder of 2004 and 2005. The results are contained in Appendix B.
- Signage was displayed advising motorists and the public of abrasive blasting and coating operations on the Auckland Harbour Bridge.
- The current blasting philosophy is based on spot blasting followed by a light sweep blast. This philosophy together with the high pressure water blasting and ultra high-pressure water blasting where possible minimises the volume of material that is generated. This philosophy has greatly reduced the volume of blasting media used when compared to historical records.

- Paint trials are currently being undertaken to ascertain whether there are potential benefits of switching to an alternative product. From an environmental viewpoint the products are being examined with regards to their ease of application, solvent fumes, and the durability of the coating. Three alternative Moisture Cured Urethanes are currently being trialled.
- Long-term solutions are being examined to look at the viability of moving from Moisture Cured Zinc primers to a Thermal Zinc Spray. This is being approached from two different aspects, firstly, in the short-medium term using the thermal zinc spray for spot repairs, and in the long term, complete thermal zinc spraying. Complete Thermal Zinc Spraying is a system that would require the removal of all the existing coating and complete replacement. It has the advantage of reducing the number of spot repairs required, hence the amount of blasting, to a minimum over the foreseeable future. Given the costs associated with this it is likely that complete removal will be undertaken in various areas as part of the next contract mainly due to the excessive film thicknesses now present on the bridge.

3 DISCHARGE TO AIR

3.1 Details of Blasting

As mentioned above the majority of the work carried out between October 2003 and September 2004 occurred below the main walkways within Spans 4 and 6, above walkways in spans 1 and 3 and on the outside of the eastern extension. Details showing the date and time of commencement and duration of dry abrasive blasting and/or spray painting, areas of the bridge being blasted or painted, the type of abrasive used, wind speed and direction, and any control measures undertaken. These details have been tabulated and can be found in Appendix A.

3.2 Surfaces Coated with Lead

Over the past twelve months it has been ensured that no blasting has been undertaken on surfaces coated with lead with concentrations greater than 5000 parts per million by weight in the dry film or containing other hazardous air pollutants. As has been mentioned above, corrosion on the bridge occurs repeatedly in the same location meaning the lead paint has been removed in the past.

APPENDIX A

Abrasive Blasting Data 2003/2004

Summary Weather Information



General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
1/10/2003	08:00:00	NO PAINTI	Overcast	Shower	SW	9	0	0	0	0	0	N/A	Nil Used	0	0	No	No	No	Errol Hansen
2/10/2003	08:00:00	PIERS	Clear	Nil	SW	2	16	12	68%	16	9	OK	Nil Used	0	0	No	No	No	Errol Hansen
2/10/2003	16:00:00	PIERS	Overcast	Shower	NW	2	14	12	82%	14	10.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
3/10/2003	08:00:00	NO PAINTI	Clear	Nil	NW	0	0	0	0	0	0	N/A	Nil Used	0	0	No	Yes	No	Errol Hansen
6/10/2003	09:00:00	MAINT	Clear	Nil	SW	0	12	9	70%	12	6.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
6/10/2003	14:10:00	MAINT	Clear	Nil	NE	0	13	9	60%	13	5.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
7/10/2003	02:00:00	STAFF ME	Clear	Nil	NW	0	0	0	0	0	0	N/A	Nil Used	0	0	No	Yes	No	Errol Hansen
7/10/2003	09:10:00	MAINT	Clear	Nil	NE	0	12.5	9.5	70%	12.5	7	OK	Nil Used	0	0	No	No	No	Errol Hansen
8/10/2003	09:15:00		Overcast	Nil	NE	3	11	9	76%	11	7	OK	Nil Used	0	0	No	No	No	Errol Hansen
8/10/2003	12:30:00	MAINT	Overcast	Nil	NE	4	14	11.5	74%	14	9.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
9/10/2003	09:00:00	MAINT	Overcast	Shower	NW	4	14	12	82%	14	10.5	OK	Garnet C	0.1	0	No	Yes	No	Errol Hansen
9/10/2003	16:00:00	MAINT	Overcast	Shower	NE	4	15	13.5	85%	15	12.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
10/10/2003	09:30:00	SET UP G	Overcast	Light	NW	0	14	13	90%	14	12.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
13/10/2003	09:40:00	B456	Clear	Nil	NW	2	15	13	80%	15	11.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
13/10/2003	14:00:00	B456	Overcast	Shower	NW	2	16.5	13.5	75%	16.5	11.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
14/10/2003	08:30:00	B456	Clear	Nil	SW	4	12	10	78%	12	8	OK	Garnet C	0.25	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
14/10/2003	15:35:00	B456	Clear	Nil	SW	5	16	10	45%	16	10	OK	Nil Used	0	0	No	No	No	Errol Hansen
15/10/2003	08:00:00	B456	Clear	Nil	SW	0	13	9.5	62%	13	6	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
15/10/2003	16:00:00	B456	Clear	Nil	SW	2	17	12	55%	17	8	OK	Nil Used	0	0	No	No	No	Errol Hansen
16/10/2003	08:50:00	B456	Clear	Nil	SW	1	15	11	66%	15	8.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
16/10/2003	12:30:00	B456	Clear	Nil	SW	0	16.5	12	59%	16.5	8.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
17/10/2003	08:00:00	B456	Overcast	Nil	SW	1	15	11.5	65%	15	8.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
17/10/2003	14:50:00	B456	Overcast	Nil	SW	2	17	15	78%	17	13.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
20/10/2003	09:00:00	B456	Clear	Nil	SW	0	15.5	13	75%	15.5	11	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
20/10/2003	16:00:00	B456	Clear	Nil	NE	2	17.5	12	54%	17	12	OK	Nil Used	0	0	No	No	No	Errol Hansen
21/10/2003	11:00:00	B456	Clear	Nil	NE	2	17.5	15	78%	17	13.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
21/10/2003	12:00:00	NO WORK	Overcast	Nil	NW	0	0	0	0	0	0	N/A	Nil Used	0	0	No	No	No	Errol Hansen
22/10/2003	08:50:00	B456	Clear	Nil	NE	2	15	13	82%	15	12	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
22/10/2003	16:50:00	B456	Clear	Nil	NE	2	17	14.5	74%	17	12.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
23/10/2003	08:20:00	B456	Clear	Nil	NE	2	15	12.5	74%	15	10.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
23/10/2003	14:35:00	B456	Clear	Nil	NE	0	19.5	15	65%19	19	15	OK	Nil Used	0	0	No	No	No	Errol Hansen
24/10/2003	08:40:00	B456	Clear	Nil	NE	2	13	11.5	74%	13	11.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
24/10/2003	14:40:00	B456	Clear	Nil	SW	4	20	17	74%	20	15.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
27/10/2003	00:00:00	STAT HOLI	Clear	Nil	NW	0	0	0	0	0		N/A	Nil Used	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions					Abrasive			Controls			Inspected By:	
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used		Sweeping Complete
28/10/2003	00:00:00	NO PAINTI	Clear	Nil	NW	0	0	0	0	0	0	N/A	Nil Used	0	0	No	No	No	Errol Hansen
29/10/2003	08:00:00	B456	Clear	Nil	S	1	17	14	75%	17	12.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
29/10/2003	15:30:00	B456	Clear	Nil	SW	2	18	14	65%	18	11.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
30/10/2003	00:00:00	NO PAINTI	Overcast	Shower	NW	6	0	0	0	0	0	N/A	Garnet C	0.1	0	No	No	No	Errol Hansen
30/10/2003	08:10:00	B456	Overcast	Nil	NW	2	18	16	82%	17.5	15	OK	Nil Used	0	0	No	No	No	Errol Hansen
31/10/2003	08:10:00	B456	Clear	Nil	SW	0	17	14.5	76%	17	11.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
31/10/2003	15:35:00	B456	Clear	Nil	SW	6						N/A	Nil Used	0	0	No	No	No	Errol Hansen
3/11/2003	08:00:00	B456	Clear	Nil	NW	2	15	13	82%	15	11.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
3/11/2003	14:35:00	B456	Overcast	Shower	NW	2	15	13	82%	15	11.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
4/11/2003	08:45:00	B456	Overcast	Shower	SW	2	14	13	90%	14	12.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
4/11/2003	16:00:00	B456	Clear	Nil	SW	6	16.5	11	52%	16	6.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
5/11/2003	08:10:00	B456	Clear	Nil	NW	0	15	12	72%	15	10	OK	Nil Used	0	0	No	No	No	Errol Hansen
5/11/2003	16:00:00	B456	Clear	Nil	NW	2	17.5	12	50%	17.5	12	OK	Nil Used	0	0	No	No	No	Errol Hansen
6/11/2003	08:05:00	B456	Clear	Nil	SW	2	17.5	14	70%	17	14	OK	Nil Used	0	0	No	No	No	Errol Hansen
6/11/2003	15:10:00	B456	Clear	Nil	SW	2	18	13	57%	18	9.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
7/11/2003	08:10:00	B456	Clear	Nil	SW	0	16	14	82%	16	13	OK	Nil Used	0	0	No	No	No	Errol Hansen
7/11/2003	12:36:00	B456	Clear	Nil	SW	2	19	14	58%	19	10.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
10/11/2003	08:55:00	B456	Clear	Nil	SW	0	17	14	72%	17	12	OK	Nil Used	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
10/11/2003	16:05:00	B456	Clear	Nil	SW	2	19	14	57%	19	10.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
11/11/2003	09:00:00	B456	Overcast	Nil	SW	2	17	14	73%	17	12	OK	Nil Used	0	0	No	No	No	Errol Hansen
11/11/2003	15:15:00	B456	Clear	Nil	SW	4	19	14	56%	19	10.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
12/11/2003	08:10:00	B456	Overcast	Nil	SW	4	18	16	82%	18	15	OK	Nil Used	0	0	No	No	No	Errol Hansen
12/11/2003	15:15:00	B456	Clear	Nil	SW	8	19	16	74%	19	14.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
13/11/2003	08:00:00	B456	Overcast	Nil	SW	4	16	13,5	77%	16	12	OK	Nil Used	0	0	No	No	No	Errol Hansen
13/11/2003	15:20:00	B456	Overcast	Shower	NW	8	16,5	15	83%	16,5	13,5	OK	Nil Used	0	0	No	No	No	Errol Hansen
14/11/2003	08:10:00	B456	Clear	Nil	SW	4	16	11	58%	16	11	OK	Nil Used	0	0	No	No	No	Errol Hansen
14/11/2003	15:03:00	B456	Clear	Nil	SW	6	17	11	50%	17	6	OK	Nil Used	0	0	No	No	No	Errol Hansen
17/11/2003	09:00:00	A51011	Overcast	Nil	NE	7	21	16	63%	21	13,5	OK	Garnet C	0,1	0	No	No	No	Errol Hansen
17/11/2003	13:40:00	A51112	Overcast	Nil	SW	7	20	17	76%	20	15,5	N/A	Nil Used	0	0	No	No	No	Errol Hansen
18/11/2003	08:00:00	B456	Clear	Nil	S	0	14	10	62%	14	10	OK	Nil Used	0	0	No	No	No	Errol Hansen
18/11/2003	16:00:00	B456	Clear	Nil	NE	4	20	16	66%	20	13,5	OK	Nil Used	0	0	No	No	No	Errol Hansen
19/11/2003	08:55:00	B456	Clear	Nil	NE	2	16,5	12	69%	16,5	14	OK	Nil Used	0	0	No	No	No	Errol Hansen
19/11/2003	12:45:00	B456	Clear	Nil	NE	2	18	14	65%	18	11,5	OK	Nil Used	0	0	No	No	No	Errol Hansen
20/11/2003	08:10:00	B467	Clear	Nil	SW	1	17	13	63%	17	10	OK	Nil Used	0	0	No	No	No	Errol Hansen
20/11/2003	16:00:00	B467	Clear	Nil	SW	0	19,5	14,5	52%	19,5	10,5	OK	Nil Used	0	0	No	No	No	Errol Hansen
21/11/2003	08:10:00	SET UP ON	Clear	Nil	NW	0	0	0	0	0	00	0	Nil Used	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions					Abrasive			Controls			Inspected By:	
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used		Sweeping Complete
24/11/2003	08:50:00	B467	Overcast	Light	NW	0	18.5	18	95%	18	17.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
24/11/2003	15:40:00	B467	Overcast	Nil	NW	4	19	15	65%	19	12.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
25/11/2003	08:10:00	B467	Overcast	Nil	NW	0	16	13	67%	16	11	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
25/11/2003	15:40:00	B467	Overcast	Nil	NE	2	17.5	15	74%	17.5	13	OK	Nil Used	0	0	No	No	No	Errol Hansen
25/11/2003	15:40:00	B467	Overcast	Nil	NW	2	17.5	15	74%	17.5	13	OK	Nil Used	0	0	No	No	No	Errol Hansen
26/11/2003	08:10:00	B467	Overcast	Shower	NE	2	18	17	90%	18	16.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
26/11/2003	14:55:00	B467	Clear	Nil	NE	4	20	18.5	90%	20	18	OK	Nil Used	0	0	No	No	No	Errol Hansen
27/11/2003	08:00:00	B467	Clear	Nil	SW	2	17	16	90%	17	15.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
28/11/2003	07:30:00	B467	Overcast	Nil	SW	2	17	13	78%	17	12	OK	Nil Used	0	0	No	No	No	Errol Hansen
28/11/2003	15:50:00	B467	Overcast	Shower	SW	4	18	16	83%	18	15	OK	Nil Used	0	0	No	No	No	Errol Hansen
1/12/2003	08:10:00	B467	Clear	Nil	SW	0	17	14	72%	17	12	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
1/12/2003	14:20:00	B467	Clear	Nil	SW	0	20	16	65%	20	13.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
2/12/2003	08:50:00	B467	Clear	Nil	SW	2	19	15	67%	19	12.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
2/12/2003	15:00:00	B467	Clear	Nil	SW	2	19	15	67%	19	12.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
3/12/2003	12:10:00	B467	Clear	Nil	SW	3	21	16	60%	21	13	OK	Nil Used	0	0	No	No	No	Errol Hansen
4/12/2003	08:10:00	B467	Clear	Nil	SW	2	19	17	82%	19	16	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
4/12/2003	15:10:00	B467	Clear	Nil	SW	2	23	18	63%	23	15.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
5/12/2003	09:10:00	B467	Clear	Nil	SW	0	19.5	17	77%	19.5	15.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
5/12/2003	15:30:00	B467	Clear	Nil	N	3	19	17	76%	19	14	OK	Nil Used	0	0	No	No	No	Errol Hansen
8/12/2003	08:00:00	B467	Clear	Nil	S	0	18.5	15	68%	18	12.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
8/12/2003	16:05:00	B467	Overcast	Shower	SW	2	18.5	16.5	88%	18.5	17	OK	Nil Used	0	0	No	No	No	Errol Hansen
9/12/2003	11:40:00	NO PAINTIN	Overcast	Nil	NW	0	21	19	83%	21	18	OK	Nil Used	0	0	No	No	No	Errol Hansen
10/12/2003	09:10:00	NO WORK	Overcast	Modera	NE	1	19	18	92%	19	17.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
11/12/2003	08:10:00	EXI5	Overcast	Nil	SW	0	21	20	92%	21	19.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
11/12/2003	15:20:00	EXI5	Overcast	Shower	NW	3	21	20	92%	21	19.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
12/12/2003	15:00:00	A51112	Clear	Nil	NW	0	22	20	83%	22	19	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
15/12/2003	08:00:00	WASH STE	Clear	Nil	NW	0	0	0	0	0	0	0	Nil Used	0	0	No	No	No	Errol Hansen
15/12/2003	17:00:00	EXI5	Clear	Nil	NW	2	20	15	58%	20	11.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
16/12/2003	09:00:00	B467	Overcast	Nil	SW	4	21.5	14	44%	21.5	14	OK	Nil Used	0	0	No	No	No	Errol Hansen
16/12/2003	13:50:00	B467	Clear	Nil	SW	6	18	15.5	78%	18	14	OK	Nil Used	0	0	No	No	No	Errol Hansen
17/12/2003	08:55:00	B467	Clear	Nil	SW	2	18	13	57%	18	9	OK	Nil Used	0	0	No	No	No	Errol Hansen
17/12/2003	16:30:00	B467	Clear	Nil	SW	2	19	14	56%	19	10.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
18/12/2003	08:00:00	B467	Overcast	Nil	SW	1	17.5	14	69%	17.5	11.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
19/12/2003	08:30:00	B467	Clear	Nil	NW	0	19	16	74%	19	14.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
19/12/2003	16:00:00	B467	Clear	Nil	SW	0	22	18	66%	22	15.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
22/12/2003	08:00:00	XMAS TIDT	Clear	Nil	NW	0	0	0	0	0	0	0	Nil Used	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
5/01/2004	08:00:00	SET UP ON	Clear	Nil	SW	2	25	19	58%	25	16	OK	Nil Used	0	0	No	No	No	Errol Hansen
6/01/2004	15:30:00	WASHING S	Clear	Nil	SW	4	23	19	70%	23	17	OK	Nil Used	0	0	No	No	No	Errol Hansen
7/01/2004	08:00:00	EXI5	Overcast	Shower	NW	0	18	16	81%	18	15	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
7/01/2004	15:15:00	EXI5	Clear	Nil	SW	2	23	19	70%	23	17	OK	Nil Used	0	0	No	No	No	Errol Hansen
8/01/2004	08:00:00	EXI5	Clear	Nil	NW	0	22	18	66%	22	15.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
8/01/2004	15:50:00	EXI5	Clear	Nil	SW	2	25	21.5	69%	25	19	OK	Nil Used	0	0	No	No	No	Errol Hansen
9/01/2004	15:45:00	EXI5	Overcast	Shower	SW	4	24	20	70%	24	18	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
12/01/2004	16:20:00	EXO5	Clear	Nil	SW	2	24	18	56%	24	14.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
13/01/2004	08:00:00	EXO5	Overcast	Nil	SW	2	22	19	75%	22	17.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
14/01/2004	11:40:00	EXI5	Overcast	Nil	SW	0	24	20	70%	24	18	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
14/01/2004	16:10:00	EXO5	Clear	Nil	SW	2	25	20	64%	24	17.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
15/01/2004	08:25:00	EXI5	Overcast	Nil	NE	2	21	19	83%	21	18	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
15/01/2004	15:15:00	EXI5	Overcast	Nil	NE	1	23	20	77%	23	18.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
16/01/2004	08:25:00	EXO5	Clear	Nil	NE	1	20	17	76%	21	15.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
16/01/2004	15:15:00	EXI5	Clear	Nil	NE	2	23	19	70%	23	17	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
16/01/2004	15:15:00	EXO5	Clear	Nil	NE	2	23	19	70%	23	17	OK	Nil Used	0	0	No	No	No	Errol Hansen
19/01/2004	08:00:00	EXI5	Clear	Nil	NW	2	22	19	77%	22	16.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
19/01/2004	16:30:00	EXI5	Overcast	Nil	NW	4	21	18	75%	21	16.5	OK	Nil Used	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions					Abrasive			Controls			Inspected By:	
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used		Sweeping Complete
20/01/2004	08:30:00	EXI5	Clear	Nil	SW	4	19	14.5	62%	19	11.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
20/01/2004	15:30:00	EXI5	Overcast	Shower	SW	4	23	19	70%	23	17	OK	Nil Used	0	0	No	No	No	Errol Hansen
21/01/2004	08:45:00	EXI5	Overcast	Shower	SW	2	20	15	58%	20	11.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
21/01/2004	15:15:00	EXI5	Clear	Nil	SW	2	20	15	58%	20	11.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
22/01/2004	08:30:00	EXI5	Clear	Nil	SW	2	19	16	74%	19	14	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
22/01/2004	14:10:00	EXI5	Clear	Nil	NW	3	23	18	63%	23	15.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
23/01/2004	09:50:00	EXI5	Overcast	Nil	SW	2	22	17	60%	23	14	OK	Nil Used	0	0	No	No	No	Errol Hansen
23/01/2004	13:10:00	EXI5	Overcast	Nil	SW	3	21	17	68%	21	15	OK	Nil Used	0	0	No	No	No	Errol Hansen
26/01/2004	00:00:00	STAT HOLL	Clear	Nil	NW	0	0	0	0	0	0	N/A	Nil Used	0	0	No	No	No	Errol Hansen
27/01/2004	08:20:00	EXO5	Clear	Nil	NW	0	21	19	76%	21	17.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
27/01/2004	13:45:00	EXO5	Clear	Nil	NE	0	22	20	83%	22	19	OK	Nil Used	0	0	No	No	No	Errol Hansen
28/01/2004	08:05:00	EXO5	Clear	Nil	NW	0	22	20	83%	22	19	OK	Nil Used	0	0	No	No	No	Errol Hansen
28/01/2004	16:25:00	EXO5	Overcast	Nil	NW	2	22	21	95%	22	20.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
29/01/2004	08:20:00	EXI5	Clear	Nil	NE	2	21.5	20	86%	21	19	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
29/01/2004	12:50:00	EXI5	Clear	Nil	NE	4	23	20	75%	23	18.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
29/01/2004	12:50:00	EXO6	Clear	Nil	NE	4	23	20	75%	23	18.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
30/01/2004	08:15:00	EXO6	Overcast	Light	NE	4	21	20	95%	21	19	OK	Nil Used	0	0	No	No	No	Errol Hansen
30/01/2004	14:00:00	EXO6	Overcast	Light	NE	4	21.5	20.5	94%	21.5	19	OK	Nil Used	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (l)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
2/02/2004	00:00:00	FIRST AID	Clear	Nil	NW	0	0	0	0	0	0	N/A	Nil Used	0	0	No	No	No	Errol Hansen
3/02/2004	11:50:00	EXO6	Clear	Nil	NW	0	23.5	21	80%	23.5	20	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
4/02/2004	10:15:00	EXO6	Overcast	Light	SW	2	19	17.5	85	19	16.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
4/02/2004	16:40:00	EXO6	Clear	Nil	NE	2	19	18	90%	19	17.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
5/02/2004	09:30:00	EXI6	Overcast	Nil	SW	4	20	17.5	79%	20	16	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
9/02/2004	09:00:00	EX06	Clear	Nil	SW	2	19	15	65%	19	12.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
9/02/2004	12:00:00	TN06	Overcast	Nil	S	2	21	17	68%	21	15	OK	Nil Used	0	0	No	No	No	Errol Hansen
10/02/2004	08:35:00	EX06	Clear	Nil	NE	0	22	18	67%	22	15.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
10/02/2004	15:15:00	EX06	Clear	Nil	NE	2	24	19	73%	24	16.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
11/02/2004	08:55:00	EX06	Overcast	Nil	SW	1	23	20	76%	23	18.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
11/02/2004	15:45:00	EX06	Overcast	Nil	SW	4	25	20	64%	25	17.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
12/02/2004	08:30:00	EX06	Overcast	Shower	NW	4	23	20.5	76%	23	18.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
13/02/2004	00:00:00	NO READIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Nil Used	0	0	No	No	No	Errol Hansen
15/02/2004	14:10:00	EXO6	Clear	Nil	SW	6	22	18	66%	22	15.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
16/02/2004	08:25:00	WAITANGI	Clear	Nil	NE	1	20	17	76%	20	15.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
16/02/2004	08:30:00	B478	Overcast	Nil	SW	6	18	15	74%	18	12.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
16/02/2004	16:00:00	B478	Overcast	Nil	SW	6	21	16	60%	21	12.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
17/02/2004	09:00:00	B478	Overcast	Shower	SW	4	18	15	74%	18	13	OK	Nil Used	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
17/02/2004	12:00:00	NO AIR AVA	Clear	Nil	NW	0	0	0	0	0	0	N/A	Nil Used	0	0	No	No	No	Errol Hansen
18/02/2004	09:05:00	B478	Overcast	Nil	NW	2	18	15	73%	18	13	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
18/02/2004	16:30:00	B478	Overcast	Nil	SW	2	20	16.5	70%	20	14.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
19/02/2004	08:50:00	B478	Overcast	Nil	SW	5	21	18	65%	21	16.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
19/02/2004	16:50:00	B478	Overcast	Shower	SW	6	25	21	70%	25	19	OK	Nil Used	0	0	No	No	No	Errol Hansen
20/02/2004	00:00:00	HIGH WIND	Clear	Nil	NW	0	0	0	0	0	0	N/A	Nil Used	0	0	No	No	No	Errol Hansen
23/02/2004	09:15:00	B478	Overcast	Nil	NW	0	20	18	82%	20	17	OK	Nil Used	0	0	No	No	No	Errol Hansen
23/02/2004	17:00:00	B478	Clear	Nil	NE	4	22	19	75%	22	17.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
24/02/2004	00:00:00	PREBLAST	Clear	Nil	NW	0	0	0	0	0	0	N/A	Nil Used	0	0	No	No	No	Errol Hansen
25/02/2004	08:20:00	B478	Overcast	Nil	NW	2	17	13	64%	17	10	OK	Nil Used	0	0	No	No	No	Errol Hansen
25/02/2004	14:30:00	B478	Overcast	Nil	SW	6	19.5	14.5	58%	19.5	11	OK	Nil Used	0	0	No	No	No	Errol Hansen
26/02/2004	08:15:00	B478	Clear	Nil	NW	0	18	14	65%	18	11.5	OK	Garnet C	0.5	0	No	No	No	Errol Hansen
26/02/2004	15:00:00	B478	Clear	Nil	SW	0	20	15	58%	20	11.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
27/02/2004	00:00:00	STRONG W	Clear	Nil	NW	9						N/A	Garnet C	0.5	0	No	No	No	Errol Hansen
1/03/2004	08:20:00	B478	Overcast	Nil	SW	0	18	14	68%	18	12	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
1/03/2004	15:15:00	B478	Overcast	Nil	SW	2	21	17	75%	21	14.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
2/03/2004	08:55:00	B478	Clear	Nil	NW	3	21	17.5	74%	21	16	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
2/03/2004	16:20:00	B478	Clear	Nil	NW	6	23	18	60%	23	15.5	OK	Nil Used	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
3/03/2004	09:05:00	B478	Overcast	Nil	SW	4	18	15	73%	18	13	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
3/03/2004	14:00:00	B478	Clear	Nil	SW	6	22	16	54%	22	12	OK	Nil Used	0	0	No	No	No	Errol Hansen
4/03/2004	09:10:00	B478	Clear	Nil	SW	4	18	12	50%	18	13	OK	Nil Used	0	0	No	No	No	Errol Hansen
4/03/2004	12:55:00	B478	Clear	Nil	S	2	19	13	50%	19	8.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
5/03/2004	08:20:00	B478	Clear	Nil	S	0	16	11	55%	16	7	OK	Nil Used	0	0	No	No	No	Errol Hansen
5/03/2004	15:15:00	B478	Clear	Nil	S	2	19	15	66%	19	12.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
8/03/2004	08:10:00	A11112	Clear	Nil	S	0	18	17	90%	18	16.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
8/03/2004	15:00:00	A11112	Clear	Nil	S	2	20	16	66%	20	13.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
9/03/2004	08:00:00	B478	Clear	Nil	E	0	18	15.5	76^	18	14	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
10/03/2004	08:25:00	B478	Clear	Nil	SW	0	19	17	82%	19	16	OK	Nil Used	0	0	No	No	No	Errol Hansen
10/03/2004	15:15:00	B478	Clear	Nil	NW	6	21	17	70%	21	15	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
11/03/2004	09:00:00	A11112	Overcast	Nil	SW	2	18	14	65%	18	11.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
12/03/2004	08:00:00	NO AIR ALT	Clear	Nil	SW	2	17	14	72%	17	12	OK	Nil Used	0	0	No	No	No	Errol Hansen
12/03/2004	15:20:00	ALTERNATI	Clear	Nil	NW	0	21	16	58%	21	12.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
15/03/2004	08:00:00	A11213	Clear	Nil	NE	0	17	15	80%	17	13.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
15/03/2004	15:35:00	A11213	Clear	Nil	NE	2	20	15	59%	20	11.5	OK	Nil Used	0	0	No	No	No	Errol Hansen
16/03/2004	08:50:00	A11415	Clear	Nil	NE	0	19	16.5	77%	19	15	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
16/03/2004	15:35:00	A11415	Clear	Nil	NE	1	21	17	65%	21	14.5	OK	Nil Used	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
17/03/2004	12:30:00	A11415	Overcast	Nil	NE	2	19	17.5	85%	19	16.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
17/03/2004	14:30:00	A11415	Overcast	Light	SW	0	19	17.5	85%	19	17.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
18/03/2004	13:30:00	A11314	Clear	Nil	NE	1	22	16	50%	22	12.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
18/03/2004	15:25:00	A11314	Clear	Nil	SW	1	22	16	50%	22	12.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
19/03/2004	08:55:00	A11213	Overcast	Nil	SW	1	17.5	14	68%	17.5	11.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
22/03/2004	09:00:00	A11415	Clear	Nil	NW	0	19	17	82%	19	16	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
22/03/2004	13:30:00	A11415	Clear	Nil	SW	4	21.5	17	65%	21.5	14.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
23/03/2004	09:00:00	A11213	Overcast	Nil	SW	1	19	15	66%	19	12.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
23/03/2004	15:15:00	A11213	Clear	Nil	SW	4	22	15.5	50%	22	11.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
24/03/2004	08:00:00	A11415	Clear	Nil	SW	2						N/A	Garnet C	0	0	No	No	No	Errol Hansen
24/03/2004	08:00:00	A11415	Clear	Nil	SW	2	20	18	82%	20	16.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
24/03/2004	15:15:00	A11415	Clear	Nil	SW	4	21	16	60%	21	13	OK	Garnet C	0	0	No	No	No	Errol Hansen
25/03/2004	12:05:00	A11415	Clear	Nil	SW	6	19	13	51%	19	13	OK	Garnet C	0	0	No	No	No	Errol Hansen
25/03/2004	16:20:00	A11415	Clear	Nil	SW	5	19	13	51%	19	13	OK	Garnet C	0	0	No	No	No	Errol Hansen
26/03/2004	08:00:00	A11314	Clear	Nil	SW	0	19	16	72%	19	14	OK	Garnet C	0	0	No	No	No	Errol Hansen
26/03/2004	15:00:00	A11314	Clear	Nil	SW	0	20	15	69%	20	14	OK	Garnet C	0	0	No	No	No	Errol Hansen
29/03/2004	00:00:00	ALTERNATI	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
30/03/2004	00:00:00	ALTERNATI	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
31/03/2004	10:00:00	A11011	Clear	Nil	SE	2	20	15	60%	20	11.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
31/03/2004	16:30:00	A11011	Clear	Nil	SW	1	20	15	60%	20	11.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
1/04/2004	09:00:00	A11011	Overcast	Nil	NW	0	18	14	65%	18	11.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
1/04/2004	15:35:00	A11011	Clear	Nil	NW	0	19	15	65%	19	12.5%	N/A	Garnet C	0	0	No	No	No	Errol Hansen
2/04/2004	08:30:00	A1910	Clear	Nil	SW	0	19	16	75%	19	14.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
5/04/2004	08:15:00	COLOUR C	Overcast	Nil	SW	1	17	14	73%	17	12	OK	Garnet C	0	0	No	No	No	Errol Hansen
5/04/2004	15:00:00	COLOUR C	Clear	Nil	SW	2	19	15	65%	19	12.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
6/04/2004	08:45:00	A189	Clear	Nil	SW	1	19	16	74%	19	14.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
6/04/2004	15:30:00	A189	Overcast	Shower	SW	6	15	13	78%	15	11	OK	Garnet C	0	0	No	No	No	Errol Hansen
7/04/2004	08:15:00	A189	Clear	Nil	NW	5	14.5	12	76%	14	10	OK	Garnet C	0	0	No	No	No	Errol Hansen
7/04/2004	17:00:00	A189	Clear	Nil	NW	4	15	11	63%	15	7.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
8/04/2004	08:20:00	EX06	Clear	Nil	NW	3	15	11	63%	15	8	OK	Garnet C	0	0	No	No	No	Errol Hansen
8/04/2004	17:00:00	EX06	Clear	Nil	NW	5	15	11	63%	15	8	OK	Garnet C	0	0	No	No	No	Errol Hansen
9/04/2004	00:00:00	STAT HOLI	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
12/04/2004	00:00:00	STAT HOLI	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
13/04/2004	12:10:00	EX06	Clear	Nil	SW	0	18	14	66%	18	11.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
13/04/2004	16:30:00	EX06	Clear	Nil	SW	2	17	13	75%	17	10	OK	Garnet C	0	0	No	No	No	Errol Hansen
14/04/2004	08:50:00	EX06	Clear	Nil	SW	1	16	13	62%	16	11	OK	Garnet C	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
14/04/2004	16:25:00	EX06	Overcast	Shower	E	4	15	14	92%	15	13.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
15/04/2004	08:35:00	A189	Clear	Nil	NE	2	16.5	14	78%	16.5	12.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
15/04/2004	14:00:00	A189	Clear	Nil	NE	2	18	14	65%	18	11.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
16/04/2004	08:15:00	A189	Clear	Nil	NE	1	15	13	81%	15	11.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
16/04/2004	13:15:00	A189	Clear	Nil	SW	2	19	15	64%	19	12	OK	Garnet C	0	0	No	No	No	Errol Hansen
19/04/2004	09:25:00	EX06	Clear	Nil	SW	0	18	14	65%	18	11.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
19/04/2004	14:05:00	EX06	Clear	Nil	SW	0	16	13	64%	16	13	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
20/04/2004	08:30:00	EX06	Clear	Nil	SW	0	16	14	80%	16	12.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
20/04/2004	15:10:00	EX06	Clear	Nil	SW	1	19	15	66%	19	12.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
21/04/2004	09:30:00	EX06	Overcast	Light	SW	1	17	14	72%	17	12	OK	Garnet C	0	0	No	No	No	Errol Hansen
22/04/2004	11:50:00	EX06	Clear	Nil	SW	1	18	15	73%	18	13	OK	Garnet C	0	0	No	No	No	Errol Hansen
22/04/2004	15:40:00	EX06	Clear	Nil	SW	0	19	15	65%	19	12.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
23/04/2004	08:10:00	A189	Clear	Nil	NE	0	16	14	80%	16	12.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
23/04/2004	15:00:00	A189	Clear	Nil	NW	4	18	15	78%	18	13	OK	Garnet C	0	0	No	No	No	Errol Hansen
26/04/2004	08:05:00	A1910	Clear	Nil	NE	1	17	15.5	83%	17	14	OK	Garnet C	0	0	No	No	No	Errol Hansen
26/04/2004	15:30:00	A1910	Clear	Nil	NE	3	18	15	78%	18	13	N/A	Garnet C	0	0	No	No	No	Errol Hansen
27/04/2004	00:00:00	ALTERNATI	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
28/04/2004	08:15:00	PIER 1	Clear	Nil	NE	1	17	15.5	80%	17	13.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
28/04/2004	15:45:00	PIER 1	Clear	Nil	NE	0	18	16	82%	18	15	OK	Garnet C	0	0	No	No	No	Errol Hansen
29/04/2004	08:15:00	EXO6	Clear	Nil	NE	2	17	16	90%	17	15.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
29/04/2004	15:15:00	EX06	Overcast	Shower	NE	3	18	16	82%	18	15	OK	Garnet C	0	0	No	No	No	Errol Hansen
30/04/2004	08:19:00	EX06	Clear	Nil	NW	2	18	17	90%	18	16.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
3/05/2004	00:00:00	NO PAINTIN	Overcast	Shower	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
4/05/2004	08:45:00	A11011	Overcast	Nil	SW	6	16	12	62%	16	8.5	OK.2	Garnet C	0	0	No	No	No	Errol Hansen
4/05/2004	14:20:00	A11011	Clear	Nil	NW	7	17	12	55%	17	8	OK	Garnet C	0	0	No	No	No	Errol Hansen
5/05/2004	08:30:00	NIGHTS OV	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
6/05/2004	08:00:00	NIGHTS OV	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
7/05/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
10/05/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
11/05/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
13/05/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
14/05/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
17/05/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
18/05/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
19/05/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
20/05/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
21/05/2004	08:00:00	OVERARCH	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
24/05/2004	08:00:00	OVERARCH	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
25/05/2004	5/05/2004	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
26/05/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
27/05/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
28/05/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
31/05/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
1/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
2/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
3/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
4/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
7/06/2004	08:00:00	STAT HOLI	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
8/06/2004	08:00:00	OVERARCH	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
9/06/2004	08:00:00		Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
10/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
11/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
14/06/2004	08:00:00	OVERARCH	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
15/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
16/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
17/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
18/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
21/06/2004	08:00:00	OVERARCH	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
22/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
23/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
24/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
25/06/2004	08:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
28/06/2004	00:00:00	HANDRAILS	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
29/06/2004	00:00:00	OVERARCH	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
30/06/2004	00:00:00	OVERARCH	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
1/07/2004	00:00:00	OVERARCH	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
2/07/2004	00:00:00	OVERARCH	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
5/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
6/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
7/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
8/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
9/07/2004	00:00:00	CONFINED	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
12/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
13/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
14/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
15/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
16/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
19/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
20/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
21/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
22/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
23/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
26/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
27/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
28/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
29/07/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
30/07/2004	12:35:00	PREBLAST	Clear	Nil	NE	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
2/08/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
3/08/2004	00:00:00	NIGHTS NO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
4/08/2004	00:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (l)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
5/08/2004	00:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0.25	0	No	No	No	Errol Hansen
6/08/2004	00:00:00	NO PAINTIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
9/08/2004	00:00:00	NO READIO	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
10/08/2004	08:00:00	WEST EXT	Overcast	Shower	NW	4	11.5	10	83%	11.5	8.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
11/08/2004	08:30:00	NO PAINTIN	Clear	Nil	NW	0	12	9.5	73%	12	7	N/A	Garnet C	0	0	No	No	No	Errol Hansen
12/08/2004	08:20:00	NO PAINTIN	Clear	Nil	NW	0	13	11	80%	13	9.5	N/A	Garnet C	0	0	No	No	No	Errol Hansen
13/08/2004	08:45:00	NIGHTS	Clear	Nil	NW	0	15	13	80%	15	12	N/A	Garnet C	0	0	No	No	No	Errol Hansen
16/08/2004	09:00:00	A301	Clear	Nil	NW	0	12	8	60%	12	4	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
17/08/2004	08:03:00	A301	Clear	Nil	SW	2	10.5	7	64%	10	3.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
17/08/2004	08:30:00	A301	Clear	Nil	NW	0						N/A	Garnet C	0	0	No	No	No	Errol Hansen
18/08/2004	08:15:00	A312	Clear	Nil	NW	0	9.5	8	82%	9.5	6.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
19/08/2004	08:50:00	A312	Clear	Nil	SW	3	13	10.5	75%	13	8.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
20/08/2004	09:15:00	A312	Clear	Nil	NW	0	14	12	80%	14	10.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
23/08/2004	09:45:00	STAGE TRA	Clear	Nil	NW	2	14.5	12	75%	14.5	10	OK	Garnet C	0	0	No	No	No	Errol Hansen
24/08/2004	08:15:00	A323	Clear	Nil	SW	1	10.5	8.5	65%	10.5	6.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
25/08/2004	15:50:00	A323	Clear	Nil	S	1	12	8	58%	12	4	ok	Garnet C	0.2	0	No	No	No	Errol Hansen
26/08/2004	08:45:00	A323	Clear	Nil	SW	0	8.5	6	72%	8.5	3.5	OK	Garnet C	0.1	0	No	No	No	Errol Hansen
27/08/2004	08:20:00	PIER2	Overcast	Shower	SW	2	9.5	8	84%	9.5	7	OK	Garnet C	0.2	0	No	No	No	Errol Hansen

General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
30/08/2004	10:30:00	A323	Clear	Nil	S	0	13	10	70%	13	7.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
31/08/2004	09:15:00	A323	Clear	Nil	SW	0	12	10	78%	12	9	OK	Garnet C	0	0	No	No	No	Errol Hansen
1/09/2004	11:50:00	A323	Overcast	0	N	4	14	12	80%	14	10.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
1/09/2004	16:00:00	A323	Overcast	Nil	N	4	13	11	83%	13	9	OK	Garnet C	0	0	No	No	No	Errol Hansen
2/09/2004	00:00:00	NO READIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
3/09/2004	00:00:00	NO READIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
6/09/2004	00:00:00	NO READIN	Clear	Nil	NW	0	0	0	0	0	0	N/A	Garnet C	0	0	No	No	No	Errol Hansen
7/09/2004	09:00:00	HANDRAILS	Clear	Nil	NE	0	11	9	76%	11	7	OK	Garnet C	0	0	No	No	No	Errol Hansen
7/09/2004	15:15:00	HANDRAILS	Clear	Nil	NW	0	15	11	64%	15	8	OK	Garnet C	0	0	No	No	No	Errol Hansen
8/09/2004	08:25:00	B645	Clear	Nil	NW	0	12	10	80%	12	8.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
8/09/2004	16:10:00	A323	Clear	Nil	NW	2	14	10	56%	14	6.5ok	N/A	Garnet C	0	0	No	No	No	Errol Hansen
9/09/2004	15:30:00	B645	Overcast	Nil	NE	2	14	11	70%	14	8.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen
10/09/2004	09:00:00	B645	Overcast	Nil	NE	3	14	12	82%	14	10.5	OK	Garnet C	0.2	0	No	No	No	Errol Hansen
13/09/2004	09:00:00	B645	Overcast	Nil	NW	3	15	13	85%	15	12.5	OK	Garnet C	0.25	0	No	No	No	Errol Hansen

Summary Weather Information



General			Weather Conditions				Coating Conditions						Abrasive			Controls			Inspected By:
Date	Time	Work Package	Weather	Rain	Wind Direction	Wind Speed (m/s)	Dry Bulb	Wet Bulb	Humidity	Steel Temperature	Dew Point	Chloride Levels	Abrasive Type	Amount Used (t)	Amount Recovered	Screens Used	Signage Used	Sweeping Complete	
14/09/2004	08:20:00	B645	Overcast	Nil	SW	4	13	10.5	75	13	8.5	OK	Garnet C	0	0	No	No	No	Errol Hansen
15/09/2004	09:20:00	B645	Overcast	Nil	SW	2	14.5	12	75	14.5	10	ok	Garnet C	0	0	No	No	No	Errol Hansen
16/09/2004	08:30:00	B645 & A34	Clear	Nil	SW	1	15.5	13	75	15	11	ok	Garnet C	0	0	No	No	No	Errol Hansen
16/09/2004	13:30:00	B645 & A34	Clear	Nil	NW	2	17	14	76	17	13	ok	Garnet C	0	0	No	No	No	Errol Hansen
17/09/2004	14:20:00	B645	Clear	Nil	SW	5	15	11	62	15	11	ok	Garnet C	0	0	No	No	No	Errol Hansen
20/09/2004	08:50:00	B645	Clear	Nil	SW	2	13	10	68	13	7	ok	Garnet C	0	0	No	No	No	Errol Hansen
21/09/2004	08:15:00	B645 & A34	Clear	Nil	SW	2	13	11	80	13	9.5	ok	Garnet C	0	0	No	No	No	Errol Hansen
22/09/2004	08:10:00	B645	Clear	Nil	SW	6	14	12	80	14	10.5	ok	Garnet C	0	0	No	No	No	Errol Hansen
23/09/2004	08:45:00	B645	Clear	Nil	SW	6	13.5	12	85	13.5	11	ok	Garnet C	0	0	No	No	No	Errol Hansen
27/09/2004	09:00:00	Transverse	Clear	Nil	SW	2	16	12	64	16	9	N/A	Garnet C	0	0	No	No	No	Errol Hansen
28/09/2004	14:10:00	A345	Clear	Nil	NW	5	15	14	95	15	13.5	ok	Garnet C	0	0	No	No	No	Errol Hansen
29/09/2004	08:10:00	B645	Clear	Nil	S	4	12	9	70	12	7	ok	Garnet C	0	0	No	No	No	Errol Hansen
30/09/2004	13:00:00	B645	Overcast	Nil	NW	2	15	11.5	66	15	8.5	ok	Garnet C	0	0	No	No	No	Errol Hansen

APPENDIX B

Local Residents Survey and Feedback

A Joint Venture between TBS Farnsworth Ltd, Opus International
Consultants Ltd & Fulton Hogan Ltd



Our Ref: PSMC 003/15

15 October 2004

Dear Neighbour

Auckland Harbour Bridge: Essential Maintenance

As part of the maintenance regime on the bridge, we are planning to undertake some blasting and painting above the main walkway in span 7, adjacent to your properties. This work will take approximately 4 weeks to complete and is scheduled to start November / December 2004. As part of this work it is essential that sandblasting be undertaken in order to prepare the steel surface adequately for painting. We shall be using garnet abrasive, which will eliminate dust problems. We will endeavour to carry out all operations with minimal impact on you or your business.

Should you have any queries or comments with respect to this or any other matter pertaining to bridge activities please contact the undersigned on 481 0078. Our site supervisor for this work is Errol Hansen who can be contacted on 0274 961 952.

Yours faithfully

TOTAL BRIDGE SERVICES

A handwritten signature in black ink, appearing to read "Jon Patman", written over the printed name.

Jon Patman
Project Engineer
Auckland Harbour Bridge

AHB LOCAL RESIDENT FEEDBACK FORM

Date: 12 October 2004

Major Work Carried Out this year:

- Blasting and Painting the Extensions
- Blasting and Painting the Original Bridge
- Blasting and Painting the Northern Viaduct Extension Legs
- Weld Repairs
- Upgrade of Overarch Handrails

Name: s9(2)(a) / A.J. HACKETT BUNGH
 Address: Post PLACE: P.O. Box 106388, AUCKLAND CENTRAL
WESTHAVEN RESERVE.

Phone No: s9(2)(a)

Do you have any complaints regarding work on the Bridge?
NO, THE WORK ALWAYS TAKES PLACE AROUND US AND CAUSES MINIMAL OR NO DISRUPTION TO OUR SCHEDULING. I AM A LITTLE CONCERNED AS THE WORK MOVES IN AND AROUND THE POD EB DISRUPTION TO JUMP SCHEDULE AND OVERSPRAY EFFECTED POD AND PEOPLE.

Do you feel you are being kept adequately informed when work is undertaken that has an impact on you?
I HAVE IN THE PAST FOUND OUT MOST OF THE SCHEDULING FOR PAINTING FROM THE GUYS ON THE BRIDGE, SO THIS MOST RECENT LETTER IS A GOOD PROGRESSION

Suggestions or comments:
CONTINUED COMMUNICATION AS TO PAINT SCHEDULING WOULD BE GREAT.

Please Contact the following with any queries:

Jon Patman (Project Engineer)
 Tel: (09) 481 0078 Mob: 027 296 1033

Date: 15 / 10 / 04

AHB LOCAL RESIDENT FEEDBACK FORM

Date: 12 October 2004

Major Work Carried Out this year: Blasting and Painting the Extensions
Blasting and Painting the Original Bridge
Blasting and Painting the Northern Viaduct Extension Legs
Weld Repairs
Upgrade of Overarch Handrails

Name: s9(2)(a)
Address: STOKES POINT
NORTHCOTE

Phone No: s9(2)(a)

Do you have any complaints regarding work on the Bridge? NOT IN THE LAST FEW YEARS - THEY DID FILL OUR GUTTER WITH SAND - A FEW YEARS AGO

Do you feel you are being kept adequately informed when work is undertaken that has an impact on you? SO FAR - YES

Suggestions or comments :

Please Contact the following with any queries: Jon Patman (Project Engineer)
Tel: (09) 481 0078 Mob: 027 296 1033

Date: / /



AHB LOCAL RESIDENT FEEDBACK FORM

21 OCT 2004

Date: 12 October 2004

Major Work Carried Out this year: Blasting and Painting the Extensions
Blasting and Painting the Original Bridge
Blasting and Painting the Northern Viaduct Extension Legs
Weld Repairs
Upgrade of Overarch Handrails

Name: s9(2)(a)
Address: NORTHOTE PI

Phone No: s9(2)(a)

Do you have any complaints regarding work on the Bridge? NONE

Do you feel you are being kept adequately informed when work is undertaken that has an impact on you? YES

Suggestions or comments:

Please Contact the following with any queries:

Jon Patman (Project Engineer)
Tel: (09) 481 0078 Mob: 027 296 1033

Date: 16 1 10 104

AHB LOCAL RESIDENT FEEDBACK FORM

Date: 12 October 2004

Major Work Carried Out this year:
Blasting and Painting the Extensions
Blasting and Painting the Original Bridge
Blasting and Painting the Northern Viaduct Extension Legs
Weld Repairs
Upgrade of Overarch Handrails

Name: s9(2)(a)
Address: NORTHCOVE PT. AIC

Phone No: s9(2)(a)

Do you have any complaints regarding work on the Bridge? No

Do you feel you are being kept adequately informed when work is undertaken that has an impact on you? Yes.

Suggestions or comments :

Please Contact the following with any queries: Jon Patman (Project Engineer)
Tel: (09) 481 0078 Mob: 027 296 1033

Date: 18, OCT, 04



AHB LOCAL RESIDENT FEEDBACK FORM

Date: 12 October 2004

Major Work Carried Out this year:
Blasting and Painting the Extensions
Blasting and Painting the Original Bridge
Blasting and Painting the Northern Viaduct Extension Legs
Weld Repairs
Upgrade of Overarch Handrails

Name: s9(2)(a)
Address: s9(2)(a)

Norcliffe Point

Phone No: s9(2)(a)

Do you have any complaints regarding work on the Bridge?

No

Do you feel you are being kept adequately informed when work is undertaken that has an impact on you?

Yes

Suggestions or comments:

We would appreciate work being completed on week days if possible

Please Contact the following with any queries:

Jon Patman (Project Engineer)
Tel: (09) 481 0078 Mob: 027 296 1033

Date: 15 / 10 / 04 s9(2)(a)

AHB LOCAL RESIDENT FEEDBACK FORM

22 OCT 2004

Date: 12 October 2004

Major Work Carried Out this year:
Blasting and Painting the Extensions
Blasting and Painting the Original Bridge
Blasting and Painting the Northern Viaduct Extension Legs
Weld Repairs
Upgrade of Overarch Handrails

Name:
Address:
Weather Mairia
137 Weather Drive

Phone No:
s9(2)(a)

Do you have any complaints regarding work on the Bridge?
Dust Noise from work on Bridge

Do you feel you are being kept adequately informed when work is undertaken that has an impact on you?
Yes.

Suggestions or comments:

Please Contact the following with any queries:
Jon Patman (Project Engineer)
Tel: (09) 481 0078 Mob: 027 296 1033

Date: 20 / 10 / 04



27 OCT 2004

AHAB LOCAL RESIDENT FEEDBACK FORM

Date: 12 October 2004

Major Work Carried Out this year: Blasting and Painting the Extensions
Blasting and Painting the Original Bridge
Blasting and Painting the Northern Viaduct Extension Legs
Weld Repairs
Upgrade of Overarch Handrails

Name: s9(2)(a)
Address: NORTH COTE POINT.
NORTH SHORE CITY.

Phone No: s9(2)(a)

Do you have any complaints regarding work on the Bridge? No

Do you feel you are being kept adequately informed when work is undertaken that has an impact on you? YES

Suggestions or comments :

Please Contact the following with any queries: Jon Patman (Project Engineer)
Tel: (09) 481 0078 Mob: 027 296 1033

Date: 25 / 10 / 04

