

# APPENDIX J

## **Documentation on Street Sweeping Equipment and Paved Road Cleanup Programs**

# APPENDIX J

## Section A

### **Nevada Department of Transportation - Documentation on Street Sweeping Equipment and Paved Road Cleanup Programs**



STATE OF NEVADA  
DEPARTMENT OF TRANSPORTATION

KENNY C. GUINN, Governor

January 29, 2001

CLARK COUNTY  
COMPREHENSIVE  
PLANNING

2001 JAN 30 A 10:45  
TOM STEPHENS, P.E., Director

RECEIVED

Rodney Langston  
Clark County Department of Comprehensive Planning  
500 South Grand Central Parkway  
Las Vegas, Nevada 89155-1741

Re: Street Sweeping

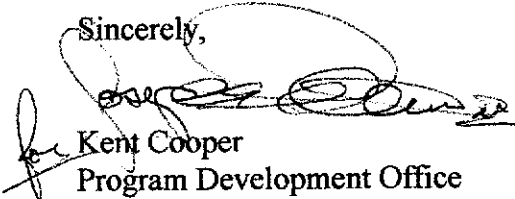
Dear Mr. Langston,

The Nevada Department of Transportation, District I Headquarters maintains the following street sweeping schedule. All Freeways under our management are scheduled to be swept once per week. All arterials, maintained within District I are scheduled once per month.

In cases that are exceptional and involve emergency response, there is no written policy. However, when such a situation arises, this District immediately applies all necessary manpower and equipment to mitigate the situation, with due consideration to the safety of the general public and environmental concerns.

If you have any questions, or if there are other issues you may be concerned about, please contact Joe Peltier at (702) 676-1567.

Sincerely,



Kent Cooper  
Program Development Office

cc: Jeff Fontaine  
Ruedy Edgington  
Eugene Weight  
Fred Rochez  
Marty Manning – CC Public Works



STATE OF NEVADA  
DEPARTMENT OF TRANSPORTATION  
CLARK COUNTY  
COMPREHENSIVE  
PLANNING

KENNY C. GUINN, *Governor*

2000 JUN 23 A 10:42 TOM STEPHENS, P.E., *Director*

Mr. Will Cates  
Clark County Comprehensive Planning  
600 S. Grand Central Pkwy.  
Las Vegas, 89106

RECEIVED

June 23, 2000

Re: **NDOT Street Sweeping Activities**

Dear Mr. Cates,

The attached tables detail the Nevada Department of Transportation's Street Sweeping Operations for the Las Vegas valley. This should satisfy your request under the newly adopted PM<sub>10</sub> regulations.

Please contact me at 676-1565 if you have any questions or need additional information.

Sincerely,

A handwritten signature in black ink that reads "Marc Reisman".

Marc Reisman  
Manager  
Program Development Office – Southern Division

mhr/

District one sweeper list --- PM 10 certification - 3-23-2000

Vehicle Number	Brand - Model	Model Year	Miles	Crew	* Type	PM 10	LV Dealer	Comments
1797	TYMCO--600	1999	1,820	154	DVS	Yes	Yes	
1514	TYMCO--600	1995	28,752	154	VS	Yes	Yes	
2796	TYMCO--600	1997	15,131	154	VS	Yes	Yes	
1680	ELGIN-- Eagle	1996	71,830	153	MS	No	Yes	New Eagle is certified. This unit may have up-dated water system, full retrofit is available \$5,000.00 kit 3-00
1648	ELGIN-- Eagle	1993	58,001	154	MS	No	Yes	New Eagle is certified, retrofit is available \$5,000.00 kit 3-00
1644	ELGIN-- Eagle	1993	48,033	154	MS	No	Yes	New Eagle is certified, retrofit is available \$5,000.00 kit 3-00
1647	ELGIN-- Eagle	1993	63,085	154	MS	No	Yes	New Eagle is certified, retrofit is available \$5,000.00 kit 3-00
2802	Mobil --- M-8A	1998	9,860	154	MS	No	Yes	No PM-10 approval, will retest in July.
2801	Mobil --- M-8A	1998	6,133	154	MS	No	Yes	No PM-10 approval, will retest in July.
1849	Mobil --- M-8A	1998	7,742	154	MS	No	Yes	No PM-10 approval, will retest in July.
1858	Mobil --- M-8A	1998	7,546	154	MS	No	Yes	No PM-10 approval, will retest in July.
2500	Mobil ---M-9	1989	68,000	154	MS	No	Yes	No PM-10 approval, will retest in July.
2690	Sweeprite - 3300FHD	1997	22,854	154	MS	No	No	Co. sold machine operations in Alberta to Wittke. Now operating in Regina Canada. No certification, No Dealer, No retrofit kit
1643	Sweeprite - 3300F	1996	20,033	154	MS	No	No	Co. sold machine operations in Alberta to Wittke. Now operating in Regina Canada. No certification, No Dealer, No retrofit kit

Legend

\* DVS = Dustless Vacuum Sweeper VS = Vacuum Sweeper MS = Mechanical sweeper

PRIORITY	NAME	MILE POSTS		CURB MILES	MEAN MILES	RAMP MILES	MILES TO SWEEP	RAMPS	INTERCHANGES	GOAL SWEEPING	ACTUAL SWEEPING	EQUIPMENT NEEDED	PERSONNEL NEEDED
1	SR604	35.35 - 40.98	11.26	11.26	N/A	22.52	N/A	N/A	11	Twice a week	Twice a week	1 sweeper	1
2	L.V. BLVD 115	33.54 - 48.43	29.78	29.78	83.34	142.9	65		14	Twice a week	Once a week	3 sweepers 2 cushions 1 message bd. 1 debris mach. 1 2-ton	8
3	US 95	56.00 - 87.00	62.00	62.00	74.77	198.77	98		25	Twice a week	Once a week	3 sweepers 2 cushions 1 message bd. 1 debris mach. 1 2-ton	8
4	1215	7.70 - 10.89	6.38	6.38	22.15	34.91	23		5	Twice a week	Once a week	1 sweeper 1 cushion 1 message bd. 1 2-ton	4
5	SR593 TROPICANA	24.86 - 32.35	14.96	14.96	N/A	29.96	N/A		27	Once a week	As needed	1 sweeper 1 cushion	2
6	SR592 FLAMINGO	21.46 - 31.34	19.76	19.76	N/A	39.52	N/A		30	Once a week	As needed	1 sweeper 1 cushion	2
7	SR589 SAHARA	21.46 - 31.47	20.02	20.02	N/A	40.04	N/A		30	Once a week	As needed	1 sweeper 1 cushion	2
8	SR612 NELLIS	37.88 - 47.29	18.82	18.82	N/A	37.64	N/A		21	Once a week	As needed	1 sweeper 1 cushion	2
9	SR605 PARADISE	1.57 - 4.54	5.94	5.94	N/A	11.88	N/A		10	Once a week	As needed	1 sweeper 1 cushion	2
10	SR595 RAINBOW	37.00 - 43.37	13.34	13.34	N/A	26.68	N/A		16	Once a week	As needed	1 sweeper 1 cushion	2
11	SR582 BOULDER HWY	14.54 - 31.10	33.12	33.12	N/A	66.24	N/A		31	Once a week	As needed	1 sweeper 1 cushion	2
12	SR599 RANCHO SR607 EASTERN	4.98 - 12.42	14.88	14.88	N/A	29.76	N/A		16	Once a week	As needed	1 sweeper 1 cushion	2
13	SR159	40.95 - 46.17	10.44	10.44	N/A	20.88	N/A		19	Once a week	As needed	1 sweeper 1 cushion	2
14	SR159 CHARLESTON	17.00 - 31.62	29.24	29.24	N/A	58.48	N/A		44	Once a week	As needed	1 sweeper 1 cushion	2
15	SR147 LAKE MEAD	27.02 - 35.00	15.96	15.96	N/A	31.92	N/A		15	Once a week	As needed	1 sweeper 1 cushion	2



# APPENDIX J

## Section B

**Clark County Department of  
Public Works - Documentation  
on Street Sweeping Equipment  
and Paved Road Cleanup  
Programs**



# MEMORANDUM

M. J. MANNING  
DIRECTOR

## Department of Public Works

---

TO: WILLIAM CATES, PRINCIPAL PLANNER, COMPREHENSIVE PLANNING  
FROM: JOHN N. MURDOCH, MANAGER, MAINTENANCE MANAGEMENT DIVISION  
SUBJECT: SWEEPER INVENTORY AND SCHEDULE  
DATE: APRIL 27, 2000

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At the present time, the Clark County Public Works Department Maintenance Management Division owns and operates sixteen street sweepers.

<u>EQUIPMENT NUMBER</u>	<u>MAKE/MODEL</u>
10110	1993 TYMCO BAH600
10111	1993 TYMCO BAH600
10112	1993 TYMCO BAH600
10271	1994 TYMCO BAH600
10361	1995 TYMCO BAH600
10362	1995 TYMCO BAH600
10369	1995 TYMCO BAH600
10370	1995 TYMCO BAH600
10968	1997 TYMCO BAH600
11245	1997 TYMCO BAH600
11250	1997 ELGIN Egal F
11251	1997 ELGIN Egal F
11252	1997 ELGIN Egal F
11253	1997 ELGIN Egal F
11614	1999 ELGIN Egal F
10075	1993 Vac-All

As per the South Coast Air Quality Management District, Rule 1186 (enclosed), all street sweepers in the Clark County fleet do currently meet the certification requirements except the Vac-All. To my knowledge the Vac-All sweeper has not been tested for Rule 1186 compliance, but it is similar to the TYMCO sweeper in that it is a regenerative air sweeper with a water system. The Vac-All is a specialized unit for cleaning drop inlets and is seldom used for street sweeping. The Vac-All unit is scheduled to be replaced in fiscal year 2001/2002. The replacement unit will comply with South Coast Air Quality Management District Rule 1186.

As indicated above, since 1993 Clark County Maintenance Management has purchased and will continue to purchase sweeping equipment which will provide the best management practices for performance and environmental concerns as the technology develops. It is Maintenance Management's intent to replace street sweepers on a seven year cycle, which may be adjusted in the future due to variables such as available funding, performance of new models, and growth of the infrastructure.

WILLIAM CATES  
SWEEPER INVENTORY AND SCHEDULE  
APRIL 26, 2000  
Page 2

In the Las Vegas valley, roads under Clark County's jurisdiction are currently divided into thirteen sweeper districts. Fully improved streets in each district are swept every seven to ten working days. Additionally, one swing shift operator and one graveyard shift operator utilize the same equipment to clean roadways that can not be cleaned efficiently on a day shift; i.e., arterials and industrial areas. These areas are also swept on a seven to ten day cycle.

Exceptions to the normal sweeping schedule may be "extraordinary events" such as flash floods. Procedure for removal of silt and debris due to an extraordinary event is to mobilize all available equipment from unaffected areas to the event location. This expedites cleanup operations with a priority of sweeping arterial roadways first, collector roadways second, and residential roadways third. On an average, Clark County Maintenance Management sweepers remove approximately 50,000 tons of material from Clark County road rights-of-way per year.

JNM:TJ:djt

Enclosure

cc/encs: B. Arkell, Special Consultant  
M. J. Manning, Public Works Director

# MEMORANDUM

## Department of Public Works

*Rod L.*  
M. J. MANNING

DIRECTOR  
CLARK COUNTY  
COMPREHENSIVE  
PLANNING

2001 FEB 12 A 10:16

TO: RODNEY LANGSTON, SENIOR PLANNER, COMPREHENSIVE PLANNING

FROM: *[Signature]* L. CAMERON HARPER, ACTING MANAGER, MAINTENANCE MANAGEMENT DIVISION

SUBJECT: ADDITIONAL INFORMATION REGARDING PM<sub>10</sub> SIP

DATE: FEBRUARY 9, 2001

RECEIVED

Listed below in bold print is the information you requested. Also included are testimonials from two government agencies and three companies who have used the Crack-Vac.

1. Policy for clean-up after natural events and other erosion caused silt deposits on roadways.
  - Time required for mobilization of clean-up activities after a natural event occurs or a silt deposit is reported (e.g. 4 hours, 12 hours, etc.).  
**On average, in the Las Vegas valley, if the event occurs during normal work hours, our initial clean-up response is within 15 to 30 minutes of the call for assistance. If the event occurs after hours, our initial clean-up response can usually occur in 1 hour or less. But this also depends on the size of the event; large events require more time to mobilize equipment and manpower to facilitate the clean-up.**
  - Time required to complete clean-up of silt deposits after typical natural event (i.e. 24 hours, 72 hours, etc.).  
**This cannot be defined as we have no "typical event"; the size of the events vary greatly. We have cleaned up some small events in 8 hours; conversely, the 1999 flood took 3 months to totally clean-up.**
2. Information on clean-up of truck spills:
  - Time required for mobilization of clean-up activities after a truck spill occurs and you are notified (e.g. 4 hours, 12 hours, etc.).  
**On average, in the Las Vegas valley, if the spill occurs during normal work hours, our initial clean-up response is within 15 to 30 minutes of the call for assistance. If the event occurs after hours, our initial clean-up response can usually occur in 1 hour or less.**
  - Time typically required to clean-up spill.  
**This again is a variable; clean-ups have taken as little as 1 hour and others have taken up to 6 hours or more.**
3. Information on crack seal equipment:
  - Types of equipment used and numbers of units by type.  
**We have two Crafcro, Model# 350G**

Rodney Langston  
Additional Information Regarding PM<sub>10</sub> SIP  
February 9, 2001

- Controls employed to prevent fugitive dust emissions from cleaning cracks (e.g. vacuum systems, other dust removal technology) for each equipment type.  
**None at this time. Crafcoc demonstrated a vacuum type crack cleaner to Clark County Public Works two years ago. At that time it was of poor design and it did not work well at all. Apparently Crafcoc has introduced an improved model since then. We have talked to several entities and companies who are currently using this improved model. As per the testimonials attached to this memo, it appears to be a 50/50 split as to the efficiency of this machine. We intend to further research other models available before making a decision.**

Please call me at 455-7540 if you need any further information, or if you have any questions or concerns.

LCH:ss

Attachment

cc: Bruce Arkell  
M. J. Manning

# TESTIMONIALS

<p>Cholla Pavement Maintenance Inc. 811 W. Warner Rd., Suite 204 Tempe, AZ. 85284 (480) 797-2313 Todd, Superintendent</p>	<p>Todd is a private contractor who does a majority of the crack sealing in and around the city of Tempe. All of the contracts that he gets specify that any crack sealing activities will be done using a Crack-Vac. Todd feels that since they have been using the Crack-Vac, their production has been cut in half and he also feels they don't get the cracks as clean. He did add that under normal conditions, the filter would run a full shift before having to be cleaned.</p>
<p>CPC (Concrete Cutting, Inc.) 1415 E. Guadalupe Rd., Suite 103 Tempe, AZ. 85283 (480) 839-6300 Troy Colby</p>	<p>Called 2-7-01 @10:35. Told to call back in the morning. Called 2-8-01 @ 8:45. Mr. Colby wasn't in; told to try back in the morning.</p>
<p>Town of Gilbert, Public Works Dept. 525 N. Lindsay Rd. Gilbert, AZ. 85234 (480) 503-6428 Mario Florez</p>	<p>Mr. Florez had nothing but good things to say about the Crack-Vac. He said at first he was a little apprehensive about running it because he was afraid he wouldn't get the production he was needing, but after working out a few bugs (added a shoe to the suction tube), and his guys getting used to the equipment, he feels he has no production loss whatsoever. He also added that there was virtually no visible dust, and under normal conditions he could run one filter the whole shift before it had to be cleaned.</p>
<p>Southwest Slurry Seal Inc. 2110 W. Shangri La Phoenix, AZ 85029 (602) 997-6365 Fred Southard</p>	<p>Mr. Southard is a private contractor with two Crafcro Crack Sealers and one Crack-Vac. They purchased the Crack-Vac when they got the contract to put down two million square yards of material for the city of Scottsdale. At first, their production was down from the previous year, but after they did a few modifications, including putting casters on the suction tube and putting a crew out ahead of the crack sealing crew, the production was every bit as good as it had ever been. He also added that under normal conditions, he was able to run a full day on one filter without cleaning it.</p>
<p>City of Tempe Public Works Dept. 31 East Fifth Street Tempe, AZ. 85280 (480) 350-8265 Danny Demingez</p>	<p>Mr. Demingez was disappointed in production and quality of work. He said production was almost cut in half. They had done some core drilling and found that the Crack- Vac didn't get the cracks as clean as it did when they were just using a blow pipe. In addition, the vacuum pipe is so heavy and cumbersome that he has to have two men to relieve each other every hour. Danny did agree that the filters would last a full day under normal conditions.</p>

# APPENDIX J

## Section C

### **City of Las Vegas Department of Public Works - Documentation on Street Sweeping Equipment and Paved Road Cleanup Programs**



April 28, 2000

CLARK COUNTY  
COMPREHENSIVE  
PLANNING

2000 MAY -1 P 2:45

RECEIVED

Rodney Langston  
Air Quality Senior Planner  
Clark County Comprehensive Planning  
500 S. Grand Central Pkwy  
Las Vegas, NV 89155-1741

MAYOR  
OSCAR B. GOODMAN

CITY COUNCIL  
MICHAEL J. McDONALD  
(MAYOR PRO-TEM)  
GARY REESE  
LARRY BROWN  
LYNETTE B. McDONALD  
LAWRENCE WEEKLY  
MICHAEL MACK

CITY MANAGER  
VIRGINIA VALENTINE

PUBLIC WORKS DIRECTOR  
RICHARD D. GOECKE

Dear Mr. Langston:

In response to your request regarding PM-10 issues please find attached information:

- Inventory of Street Sweeper Fleet
- 99 Traffic Counts (Gravel Roads)
- City Of Las Vegas (Traffic Counts - Gravel Roads)
- 1995 CLV Memo on PM-10 Road sampling (Includes results)

Additionally, I have reviewed the proposed Section 93 as it relates to Street Sweeping and would recommend that the requirement that all equipment comply with SCAQMD apply to all new equipment only. The way Section 93.2.3 as it is currently written, I interpret that all equipment used after 1/1/03 must comply. I would suggest that either Section 93.2.3 be changed to apply only to new equipment purchased, or all existing equipment be exempted under Section 93.2.3.1

If you have any questions please feel free to contact me at 229-5903.

Sincerely,

Larry J. Haugsness  
Deputy Director

LH:mas

Attachments

cc: Richard D. Goecke  
Lori Wohletz

DEPARTMENT OF PUBLIC WORKS  
CITY OF LAS VEGAS  
400 STEWART AVENUE  
LAS VEGAS, NEVADA 89101

VOICE 702.229.6276  
FAX 702.382.0848  
TDD 702.386.9108  
www.ci.las-vegas.nv.us



CITY OF LAS VEGAS STREET SWEEPER FLEET				
UNIT	BRAND/MODEL/YR		YEAR	CNG YES/NO
2810	International Tymco	600	99	Yes
2722	International Tymco	600	99	Yes
2721	International Tymco	600	99	Yes
2720	International Tymco	600	99	Yes
2719	International Tymco	600	99	Yes
2561	International Tymco	600	97	Yes
2560	International Tymco	600	97	Yes
2559	International Tymco	600	97	Yes
2558	International Tymco	600	97	Yes
2526	International Tymco	600	97	Yes
2524	International Tymco	600	97	Yes
2523	International Tymco	600	97	Yes
2512	Mobil M DABD 2	M9	97	Yes
2511	Mobil M DABD 2	M9	97	Yes
2360	GMC	600	96	Yes
2287	International Tymco	600	95	No
2286	International Tymco	600	95	No
2285	GMC Tymco	600	95	No
2273	GMC Tymco	600	94	Yes
2272	GMC Tymco	600	94	Yes
2224	GMC Tymco	600	94	Yes
2234	GMC Tymco	600	93	Yes
2186	International Tymco	600	93	No
983	Ford Tymco	600	90	No
982	FMC		90	No
981	International Tymco	600	90	No
+	2 Elgin Crosswind	On order		
+	2 Mechanical	TBD		

4/26/99



# DEVELOPMENT SERVICES CENTER



Public Works Department  
Engineering Planning

731 S. Fourth Street  
Las Vegas, NV 89101

Voice 702-229-6541  
FAX 702-382-8551  
TDD 702-386-9108

February 14, 2001

Rodney Langston, Principle Planner  
Clark County Comprehensive Planning  
500 S. Grand Central Pky.  
Las Vegas, Nevada 89155

RE: Storm Emergency Clean-Up Procedures

Dear Rodney:

It is the policy of the City of Las Vegas to respond immediately to any large scale storm event. Debris and sediment deposited on City streets is responded to within hours of the storm event. Clean-up efforts continue around the clock until all such debris and sediment is removed from all City streets.

In the event of wide-spread flooding, clean-up efforts can last from hours to weeks after the event. As you know, sudden summer flash floods can wreck great havoc in the form of debris on our City streets. After large events it is often necessary to bring in heavy equipment to remove debris. Every possible effort is made to remove this debris as quickly as possible.

If you need any additional information on the City's post-event clean-up procedures, please contact me at 229-2338.

Sincerely,

Lori Wohletz  
Environmental Officer  
Department of Public Works

Mayor  
Oscar B. Goodman

City Council  
Michael J. McDonald  
(Mayor Pro-Tem)

Gary Reese  
Larry Brown  
Lynette Boggs McDonald  
Lawrence Weekly  
Michael Mack

City Manager  
Virginia Valentine



## Rodney Langston - Street Sweeping

---

**From:** Lori Wohletz <lwohletz@ci.las-vegas.nv.us>  
**To:** 'Rodney Langston' <rml@ccgwwgate.co.clark.nv.us>  
**Date:** 2/15/01 9:49 AM  
**Subject:** Street Sweeping

---

Rodney, our street sweeping frequency is every two weeks. We sweep more frequently if it's a problem area like around active construction. We usually hit those areas once per week.

# APPENDIX J

## Section D

**City of North Las Vegas  
Department of Public Works -  
Documentation on Street  
Sweeping Equipment and Paved  
Road Cleanup Programs**

Mayor  
Michael L. Montandon

Council Members  
William E. Robinson  
John K. Rhodes  
Stephanie S. Smith  
Shari Buck



*Your Community of Choice*

Public Works Department • James A. Bell, P.E., Director  
2829 Fort Sumter Drive • North Las Vegas, Nevada 89030  
Telephone: (702) 633-1374 • Fax: (702) 399-7035

June 7, 2000

e-mail: [www.cityofnorthlasvegas.com](http://www.cityofnorthlasvegas.com)

Clark County Comprehensive Planning  
Attn: Rodney Langston, Air Quality Senior Planner  
500 South Grand Central Pky., 3<sup>rd</sup> Fl.  
P.O. Box 558270  
Las Vegas, Nevada 89155-8270

**RE: Street Sweeping Information for the City of North Las Vegas**

Dear Rodney:

The following information is provided for the development of the PM10 State Implementation Plan regarding the City of North Las Vegas' street sweeping practices:

1. Attached is a letter from SNE Equipment Services attesting that the entire fleet of the City's street sweepers meet or exceed all air quality management guidelines as set forth by the South Coast Air Quality Management District (Rule 1186).
2. You requested a listing of the paved roads that tend to be more frequently silted and require more frequent sweeping. The City sweeps all paved roads on a pre-established schedule. Therefore, there is no data available for your request.
3. The current street sweeping program for the City is to sweep paved roadways every two weeks and within 48 hours after a natural event, such as a flood event. The City has been able to maintain this schedule to date.

If you have any questions regarding the above, please feel free to contact me at (702) 633-1259.

Sincerely,

Leslie Long, P.E.  
Assistant Public Works Director (Acting)  
Resources and Facility Services

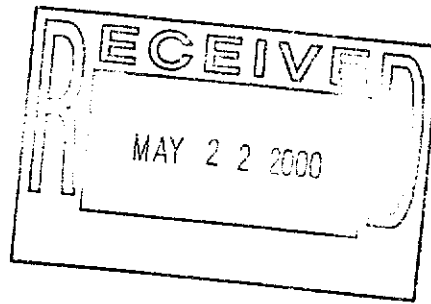
LL:dd

cc: Charity Fechter, City of North Las Vegas  
John Runiks, City of North Las Vegas

City Manager  
Patrick P. ~~Impoktuna~~  
CLARK COUNTY  
COMPREHENSIVE  
PLANNING  
Assistant City Managers  
Kurt Fritsch  
Michele F. Richardson P 4: 48

RECEIVED

John Runicks  
City Of North Las Vegas  
50 East Brooks Ave  
North Las Vegas  
Nevada, 89030



Dear John Runicks:

This letter is to inform all interested parties that the current fleet of Tymco regenerative air street sweepers in use with the City Of North Las Vegas meet or exceed all air quality management guidelines as set forth by the Environmental protection agency and the South Coast Air Quality Management District.

Further more the cities fleet consist of seven model 600BAH and two model 600.

The City Of North Las Vegas also has in place an exceptional service crew that has factory trained technicians to ensure that these sweepers will continue to provide the most environmentally friendly operation.

Please do not hesitate to contact me if you have any questions regarding this information. I can be reached at (702) 320-6524.

Sincerely,  
SNE Equip. Services

A handwritten signature in black ink, appearing to read "Lee M. Tonan".

Lee M. Tonan

Sweeper Division

Jfd:00

**LAS VEGAS**  
4129 Losee Road  
North Las Vegas, NV 89030  
(702) 320-6500  
FAX (702) 320-6569

**RENO/SPARKS**  
1690 Industrial Way  
Sparks, NV 89431  
(775) 358-3323  
FAX (775) 358-9507

**ST. GEORGE**  
653 North 3050 East Suite A  
St. George, UT 84790  
(435) 674-2994  
FAX (435) 674-2971

**877-700-RENT**  
Toll Free to Nearest Location

Mayor  
Michael L. Montandon

Councilmen  
William E. Robinson  
John K. Rhodes  
Stephanie S. Smith  
Shari Buck



*Your Community of Choice*

City Manager  
Kurt Fritsch

CLARK COUNTY  
COMPREHENSIVE  
PLANNING  
Assistant City Manager  
Michele F. Richardson

2001 FEB -2 A 10: 33

RECEIVED

Public Works Department • James A. Bell, P.E., Director  
50 E. Brooks Avenue • North Las Vegas, Nevada 89030-3959  
Telephone: (702) 633-1313 • Fax: (702) 633-1884  
[www.cityofnorthlasvegas.com](http://www.cityofnorthlasvegas.com)

31 January 2001

Mr. Rodney Langston  
Clark County Comprehensive Planning  
500 S. Grand Central Parkway  
P.O. Box 558270  
Las Vegas, NV 89155-8270

Dear Mr. Langston:

In response to your request for information regarding North Las Vegas sweeping activities, I am providing the following:

- As required by Stormwater Permit, all North Las Vegas streets are swept twice per month.
- The Roadway Maintenance Division responds to storm events with sweepers and other necessary equipment immediately or within 24 hours.

ROADWAY MAINTENANCE DIVISION

John Runiks  
Manager

# APPENDIX J

## Section E

**City of Henderson Department  
of Public Works -  
Documentation on Street  
Sweeping Equipment and Paved  
Road Cleanup Programs**

# Memo

**To:** Christine Kidd, Project Engineer  
**From:** Kenneth H. Schoon, Street Maintenance Supervisor  
**Date:** 06/06/00  
**Re:** Street Sweeper Information

---

Here are the answers to the list of questions regarding our sweepers.

1. Presently, we have seven (7) street sweepers. They are listed as follows from the oldest to the newest:

- 1) One (1) 1995 Tymco 600, Regenerative Air Sweeper
- 2) Two (2) 1997 Elgin Eagle, Mechanical Sweepers
- 3) Four (4) 1999 Elgin Crosswind, Recirculating Air Sweepers

All of the above mentioned sweeper models are EPA Rule 1186 compliant. PM-10 efficient statements are attached.

2. The paved roads that need more frequent sweeping due to them being more frequently silted are primarily those roads leading in and out of gravel pit yards or construction sites. These paved roads are as follows:

Stephanie Street	American Pacific Drive
Windmill Parkway	Wigwam Parkway
Warm Springs Road	South Gibson Road
Parkson Road	Eastgate Road
Cape Horn Drive	Sunset Road
Arroyo Grande Blvd.	Horizon Ridge Parkway
Eastern Avenue	Valle Verde Drive
Pecos Road	

3. The description of our sweeping plan is as follows. We have seven street sweepers. Six of the seven sweepers are assigned to one operator each. The seventh sweeper is a stand-by sweeper that is used when one of the other six are out-of-service for whatever reason. Four sweepers are on day shift doing residential neighborhoods. These four sweepers are assigned given areas of the city. If time allows, they may overlap or help the other sweeping routes.



Street Sweeper Information  
June 6, 2000

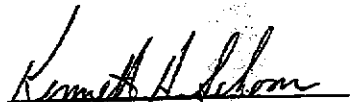
Two sweepers are on night shift. These sweepers are assigned to sweep all of the non-residential streets, or the main thoroughfares throughout the city. The night shift sweepers also sweep all of the commercial areas of the city.

Sweeper operators must sweep their assigned route at least twice per month. The problem areas are swept once per week. These are the areas covered by the night shift sweepers.

4. Our plan for doing priority sweeping and/or clean-up of high silt conditions that occur from natural events is to first clean up all heavy silt areas using loaders and dump trucks. Next we follow-up with our mechanical street sweepers, followed by our regenerative air sweepers and/or water truck to flush the remaining silt and debris.

Finally, although we are doing well with the amount of sweepers and sweeper operators we now have, I believe it is possible for the EPA to push us to commit to sweeping the worst case roads more frequently. If we are pushed to sweep more frequently, the City will have to commit to hiring more operators and more sweeping machines so that we can keep up with EPA demands.

If you require more information, contact me at 565-2303 or by cell phone at 373-6033.

  
Kenneth H. Schoon  
Street Maintenance Supervisor

kim

## Rodney Langston - PM10 SIP---additional information requested

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**From:** George Nelson <GAN@gty.ci.henderson.nv.us>  
**To:** <RML@ccgwwgate.co.clark.nv.us>  
**Date:** 2/12/01 2:42 PM  
**Subject:** PM10 SIP---additional information requested

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**\*\* Reply Requested When Convenient \*\***

In response to the additional information requested from the City of Henderson, I have contacted the appropriate people within the City and the following are their response to those questions asked:

- 1). Time required for mobilization of clean-up activities after a truck spill is 4 hours and time typically required to clean up the spill will depend upon size but the City will continue clean-up until work is completed!
- 2). Type of equipment used for crack seal --- one BEARCAT propane fired pot with no controls in place to prevent dust emissions. As discussed at our meeting on Feb 05 the City is unaware of technology to prevent dust emissions from cleaning cracks!

If additional information is needed please call kme at 565-2319.

Thanks!

# Appendix J

## Section F

### **Municipal Stormwater Permit Requirement Summary**

**Summary of Requirements  
Municipal Stormwater Permit NV0021911  
Las Vegas Valley**

Permittees: The City of Henderson, City of Las Vegas, City of North Las Vegas, Clark County, Clark County Regional Flood Control District, and Nevada Department of Transportation.

Permittees authorized to discharge into the Las Vegas Wash and its Tributaries in accordance with monitoring requirements and other conditions set forth in the Permit.

Permit became effective June 16, 1997 and expires on June 16, 2001.

Best Management Practices (BMP) for the following activities were developed to comply with the mandates of this permit.

- Catch Basin Maintenance
- Storm Drain Maintenance
- Street Sweeping
- Illegal/Illicit Connection Elimination
- Hazardous Material Disposal
- Letter Control
- Local Ordinances
- Standard Plans And Specifications
- Regional Stormwater Committee
- Stormwater Monitoring
- Public Education

Report on BMP for street sweeping submitted in accordance with permit requirements.

The overall objective is to sweep streets in urban areas at least every 5 to 10 days, and emphasize removal of debris and mud washoff within 48 hours after a storm. With the exception of some of the rural areas of Clark County, current sweeping practices satisfy this BMP. Present sweeping schedules have been devised to meet the PM10 particulate air quality regulations. These are adequate to meet water quality requirements as well.

- No significant changes were made to the County's street sweeping program in 1998-99. The BMP sweeping objectives were met. The County street sweeping cost in 1998-99 were \$1,544,000.
- No significant changes were made to the City of Las Vegas' street sweeping program in 1998. The BMP sweeping objectives were met. Las Vegas sweeps about 100,000 curb miles per year.
- The City of North Las Vegas performed 7,084 labor hours sweeping City streets over the past 12 months. The City of North Las Vegas' Streets

**Summary of Stormwater Requirements  
Municipal Stormwater Permit NV0021911  
Las Vegas Valley**

- Division sweeps 1,700 lane miles every 4 to 8 days and within 48 hours after storm events, satisfying the BMP maintenance objective.
- The City of Henderson expended \$747,074 on street sweeping over the past 12 months. The City now has seven street sweepers in operation.
- A total of 12,366 labor hours was expended by NDOT on street sweeping within the Las Vegas District for calendar year 1998. Approximately 90 percent (11,129 hours) of this total was expended for this activity in Las Vegas Valley. This number is down slightly from calendar year 1997 totals due to staffing fluctuations and increased responsibilities.