

ATTACHMENT B

Monitoring Data of Projects' Storm Water Runoff Impacts to Area Surface Waters

NORTHSTAR VILLAGE

On November 2-3, 2006, an extended rain event created storm water runoff. The Discharger reported an accumulation of 1.28 inches of precipitation during this period. the Discharger's self-inspection reports do not contain monitoring results verifying storm water runoff monitoring was conducted within the West Fork West Martis Creek, as required by the project SWPPP.

A precipitation event occurred on January 3-4, 2007, which produced approximately 0.65 inches of rain in addition to subsequent snow.

Table 1. West Fork West Martis Creek Monitoring Data Summary, January 4, 2007, Discharge from Village at Northstar.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)*
Point of Storm Water Runoff Discharge into West Fork West Martis Creek (Station V6)	36	54	240	0.21	1.4
West Fork West Martis Creek above the point of storm water runoff discharge (Background Sample – Station V7)	1.5	<5	110	<0.02	0.2
West Fork West Martis Creek, Downstream from Point of Discharge (Station V5)	5.4	6	140	0.02	0.4

*Nitrate Nitrogen was non-detectable in all samples; therefore, Total Nitrogen in samples consists entirely of Kjeldahl Nitrogen.

A precipitation event occurred on February 8 through 10, 2007, which produced up to 3 inches of precipitation at the Mt. Rose monitoring station and a trace at the Truckee monitoring station.

Table 2. West Fork West Martis Creek Monitoring Data Summary, February 9, 2007, 3:15 p.m. through 3:45 p.m., Discharge from Village at Northstar.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Point of Storm Water Runoff Discharge into West Fork West Martis Creek (Station V6)	100	85	280	0.18	2.7
West Fork West Martis Creek above the point of storm water runoff discharge (Background Sample – Station V7)	4.1	<5	100	<0.02	0.4
West Fork West Martis Creek, Downstream from Point of Discharge (Station V5)	16	9	140	0.03	0.7

Table 3. West Fork West Martis Creek Monitoring Data Summary, February 10, 2007, 11:15 a.m. through 11:45 a.m., Discharge from Village at Northstar.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Point of Storm Water Runoff Discharge into West Fork West Martis Creek (Station V6)	60	88	270	0.18	1.6
West Fork West Martis Creek above the point of storm water runoff discharge (Background Sample – Station V7)	5.4	25	110	0.04	0.7
West Fork West Martis Creek, Downstream from Point of Discharge (Station V5)	25	55	180	0.11	1.2

**Table 4. West Fork West Martis Creek Monitoring Data Summary,
February 10, 2007, 3:45 p.m. through 4:15 p.m., Discharge from
Village at Northstar.**

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Point of Storm Water Runoff Discharge into West Fork West Martis Creek (Station V6)	34	210	250	0.20	1.7
West Fork West Martis Creek above the point of storm water runoff discharge (Background Sample – Station V7)	6.0	17	120	0.03	0.7
West Fork West Martis Creek, Downstream from Point of Discharge (Station V5)	20	23	150	0.05	0.9

INTERCEPT LOT

A precipitation event occurred on January 3-4, 2007, which produced approximately 0.65 inches of rain in addition to subsequent snow (**See Exhibit 14 from Northstar Village draft ACL - January 18, 2007, Electronic Mail from Vanessa Sandoval to Eric Taxer and Dale Payne, "Sample Results from Storm 1-4-07"**). The Discharger did not conduct a pre-storm inspection, inspections during the storm, nor a post-storm inspection, nor did the Discharger sample storm water run-on or run-off into wetland areas at the project site, as required by the SWPPP.

Table 1. Intercept Lot Monitoring Data Summary, February 10, 2007, 12:00 p.m. through 12:45 p.m.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
I-ED1 (Class III Drainage)	21	14	170	0.80	0.4
I-F3 (Basin F3 Outfall)	110	1700	210	0.60	2.2
I-E3 (Basin E3 Outfall)	110	370	100	0.22	1.7
I-3 (Basin 3 Outfall)	100	79	230	0.23	2.6

Table 2. Intercept Lot Monitoring Data Summary, February 10, 2007, 4:20 p.m. through 4:30 p.m.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
I-ED1 (Class III Drainage)	70	76	160	0.19	0.6
I-3 (Basin 3 Outfall)	21	66	160	0.08	0.6

HIGHWAY 267/HIGHLANDS VIEW DRIVE INTERCHANGE

A rain event on October 5, 2006, produced 0.3 inches of precipitation in a 24-hour period.

Table 1. Middle Martis Creek Monitoring Data Summary, October 5, 2006, Discharge from Middle Drain Inlet, 12:45 pm – 1:00 pm.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Point of Storm Water Runoff Discharge into Middle Martis Creek (Station 267-Mid)	900	960	140	0.31	0.58
Middle Martis Creek above the point of storm water runoff discharge (Background Sample, Station M-4)	8.4	19	130	0.14	0.38
Middle Martis Creek, Downstream from Point of Discharge (Station M-5)	17	30	120	0.17	0.45

A rain event on November 2-3, 2006, produced 1.28 inches of precipitation.

Table 2. Middle Martis Creek Monitoring Data Summary, November 2, 2006, Discharge from Middle Drain Inlet. Sampled 4:45 pm – 5:30 pm

Monitoring Station	Turbidity (NTU)	Settleable Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Point of Storm Water Runoff Discharge into Middle Martis Creek (Station 267-Mid)	190	<4	200	0.32	1.23
Middle Martis Creek above the point of storm water runoff discharge (Background Sample, Station M-4)	3.8	<4	130	0.06	0.2
Middle Martis Creek, Downstream from Point of Discharge (Station M-5)	5.7	<4	140	0.07	0.2

Oil and Grease was sampled in the discharge (12 mg/L), and in the downstream sample (non detectable), but not analyzed in the upstream sample.

A rain event on January 3-4, 2007, produced 0.65 inches of precipitation. Site was not sampled due to chain control restrictions and safety considerations.

A rain event February 8-10, 2007, produced 2.52 inches of precipitation.

Table 3. Middle Martis Creek Monitoring Data Summary, February 8, 2007, Discharge from Middle Drain Inlet, 10:50 am – 11:30 am.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Point of Storm Water Runoff Discharge into Middle Martis Creek (Station 267-North culvert)	180	220	790	0.39	1.2
Middle Martis Creek above the point of storm water runoff discharge (Background Sample, Station M-4)	8.8	7	180	0.03	<0.3
Middle Martis Creek, Downstream from Point of Discharge (Station M-5)	3.7	16	160	0.03	<0.4

Table 4. Middle Martis Creek Monitoring Data Summary, February 9, 2007, Discharge from Middle Drain Inlet, 10:15 am – 12:00 pm.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Storm Water Runoff Discharge into Middle Martis Creek (Station 267-Middle Culvert)	130	260	340	0.30	0.6
Storm Water Runoff Discharge into Middle Martis Creek (Station 267-North Culvert)	290	92	220	0.80	1.3
Middle Martis Creek above the point of storm water runoff discharge (Background Sample, Station M-4)	120	92	180	0.22	0.7
Middle Martis Creek, Downstream from Point of Discharge (Station M-5)	96	95	220	0.17	0.7

Table 5. Middle Martis Creek Monitoring Data Summary, February 10, 2007, Discharge from Middle Drain Inlet, 1:15 pm – 1:55 pm.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Storm Water Runoff Discharge into Middle Martis Creek (Station 267-Middle Culvert)	28	64	350	0.10	<0.35
Storm Water Runoff Discharge into Middle Martis Creek (Station 267-North Culvert)	23	46	240	0.08	0.6
Middle Martis Creek above the point of storm water runoff discharge (Background Sample, Station M-4)	26	64	170	0.10	0.6
Middle Martis Creek, Downstream from Point of Discharge (Station M-5)	35	77	170	0.14	0.6

Table 6. Middle Martis Creek Monitoring Data Summary, February 10, 2007, Discharge from Middle Drain Inlet, 4:40 pm – 5:15 pm.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Storm Water Runoff Discharge into Middle Martis Creek (Station 267-Middle Culvert)	32	42	310	<0.02	0.4
Storm Water Runoff Discharge into Middle Martis Creek (Station 267-North Culvert)	12	26	290	0.02	0.7
Middle Martis Creek above the point of storm water runoff discharge (Background Sample, Station M-4)	33	72	190	0.14	0.7
Middle Martis Creek, Downstream from Point of Discharge (Station M-5)	24	54	180	0.11	0.6

HIGHLANDS VIEW DRIVE

A rain event on October 5, 2006, produced 0.3 inches of precipitation in a 24-hour period.

Table 1. West Martis Creek Monitoring Data Summary, Discharge from Station 104+00, October 5, 2006, Approximately 3:00 p.m.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Off site, Upstream	22.1	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Onsite, Upstream from Discharge	66.9	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Onsite, Downstream from Discharge	386	Not Sampled	Not Sampled	Not Sampled	Not Sampled

Table 2. West Fork West Martis Creek Monitoring Data Summary, October 5, 2006, Discharge from Station 144+00, Approximately 4:00 p.m.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Upstream from Discharge	3.64	Not Sampled	Not Sampled	Not Sampled	Not Sampled
Downstream from Discharge	3.38	Not Sampled	Not Sampled	Not Sampled	Not Sampled

A contractor hit a water line on October 10, 2006, and directed all runoff into a Drain Inlet with a direct link to West Fork West Martis Creek. 2,100 gallons was discharged.

Table 3. West Fork West Martis Creek Monitoring Data Summary, October 10, 2006, Discharge from Station 144+00, 10:05 a.m. to 10:15 a.m. Samples collected 15 minutes after the discharge was stopped.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Upstream from Discharge and Road Crossing (Station HVD4)	13	44	100	0.09	0.24
Downstream from Discharge and Road Crossing (Station HVD5)	38	67	120	0.11	0.29

A rain event on November 2-3, 2006, produced 1.28 inches of precipitation.

Table 4. West Martis Creek Monitoring Data Summary, November 2, 2006, Discharge from Station 104+00, 10:50 a.m. to 11:50 a.m.

Monitoring Station	Turbidity (NTU)	Settleable Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Upstream from Discharge and Road Crossing (Station HVR2)	0.3	<4	86	0.02	0.39
Downstream from Discharge and Road Crossing (Station HVR3)	23	<4	100	<0.02	0.33

Table 5. West Fork West Martis Creek Monitoring Data Summary, November 2, 2006, Discharge from Station 144+00, 11:45 a.m. to 11:50 a.m. Samples collected 15 minutes after the discharge was stopped.

Monitoring Station	Turbidity (NTU)	Settleable Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Upstream from Discharge and Road Crossing (Station HVR4)	0.5	<4	100	0.02	0.39
Downstream from Discharge and Road Crossing (Station HVR5)	38	67	120	0.11	0.29

A small rain and sampling event occurred on December 15, 2006. The monitoring results do not indicate conditions of pollution, and the results are not tabulated for the proposed ACL Complaint.

A precipitation event occurred on January 3-4, 2007, which produced approximately 0.65 inches of rain in addition to subsequent snow. West Martis Creek at Station 104+00 was not sampled, presumably because there was no flow present.

Table 6. West Fork West Martis Creek Monitoring Data Summary, January 4, 2007, Discharge from Station 144+00, 2:00 p.m. to 2:25 p.m.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Upstream from Discharge and Road Crossing (Station HVR4)	1.4	<5	100	<0.02	<0.6
Downstream from Discharge and Road Crossing (Station HVR5)	2.6	<5	110	<0.02	<0.6
Further Downstream from Discharge and Road Crossing (Station HVR6)	1.1	<5	110	<0.2	<0.6

A rain event February 8-10, 2007, produced 2.52 inches of precipitation. The Discharger reported flows only at Station 144+00 (West Fork West Martis Creek). However, a subsequent report by IERS indicates that there were flows within West Martis Creek.

Table 7. West Fork West Martis Creek Monitoring Data Summary, February 8, 2007, Discharge from Station 144+00, 8:45 a.m. to 9:15 a.m.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Upstream from Discharge and Road Crossing (Station HVR4)	0.5	<5	90	<0.02	0.3
Downstream from Discharge and Road Crossing (Station HVR5)	0.4	<5	120	0.02	0.4
Further Downstream from Discharge and Road Crossing (Station HVR6)	0.6	<5	100	<0.02	0.5

Table 8. West Fork West Martis Creek Monitoring Data Summary, February 9, 2007, Discharge from Station 144+00, 12:30 p.m. to 1:30 p.m.

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Upstream from Discharge and Road Crossing (Station HVR4)	12	12	100	0.02	0.7
Downstream from Discharge and Road Crossing (Station HVR5)	24	28	120	0.05	0.8
Further Downstream from Discharge and Road Crossing (Station HVR6)	6.2	8	120	0.02	0.4

**Table 9. West Fork West Martis Creek Monitoring Data Summary,
February 10, 2007, Discharge from Station 144+00, 10:15 a.m. to
10:45 a.m.**

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Upstream from Discharge and Road Crossing (Station HVR4)	6.2	23	120	0.04	1.0
Downstream from Discharge and Road Crossing (Station HVR5)	4.7	33	100	0.04	0.6
Further Downstream from Discharge and Road Crossing (Station HVR6)	7.5	28	120	0.03	0.6

**Table 10. West Fork West Martis Creek Monitoring Data Summary,
February 10, 2007, Discharge from Station 144+00, 3:45 p.m. to
4:05 p.m.**

Monitoring Station	Turbidity (NTU)	Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)
Upstream from Discharge and Road Crossing (Station HVR4)	7.7	20	130	0.06	1.8
Downstream from Discharge and Road Crossing (Station HVR5)	1.1	150	120	0.17	1.6
Further Downstream from Discharge and Road Crossing (Station HVR6)	7.1	71	120	0.03	0.7

EMPLOYEE HOUSING

A rain event on October 5, 2006, produced 0.3 inches of precipitation in a 24-hour period. No sampling was conducted, presumably because there was no discharge from the storm water basins.

A rain event on November 2-3, 2006, produced 1.28 inches of precipitation. No sampling was conducted, presumably because there was no discharge from the storm water basins.

A precipitation event occurred on January 3-4, 2007, which produced approximately 0.65 inches of rain in addition to subsequent snow. No sampling was conducted, presumably because there was no discharge from the storm water basins.

A rain event February 8-10, 2007, produced 2.52 inches of precipitation. No sampling was conducted, presumably because there was no discharge from the storm water basins.

HIGHLANDS RESORT HOTEL (RITZ CARLTON HOTEL)

A rain event on October 5, 2006, produced 0.3 inches of precipitation in a 24-hour period. No sampling was conducted, presumably because there was no discharge from the storm water basins.

A rain event on November 2-3, 2006, produced 1.28 inches of precipitation. No sampling was conducted, presumably because there was no discharge from the storm water basins.

A precipitation event occurred on January 3-4, 2007, which produced approximately 0.65 inches of rain in addition to subsequent snow. No sampling was conducted, presumably because there was no discharge from the storm water basins.

A rain event February 8-10, 2007, produced 2.52 inches of precipitation. No sampling was conducted, presumably because there was no discharge from the storm water basins.

TRAILSIDE TOWNHOMES

A rain event on October 5, 2006, produced 0.3 inches of precipitation in a 24-hour period. No sampling was conducted, presumably because there was no discharge from the storm water basins.

A rain event on November 2-3, 2006, produced 1.28 inches of precipitation. No sampling was conducted, presumably because there was no discharge from the storm water basins.

A precipitation event occurred on January 3-4, 2007, which produced approximately 0.65 inches of rain in addition to subsequent snow. No sampling was conducted, presumably because there was no discharge from the storm water basins.

A rain event February 8-10, 2007, produced 2.52 inches of precipitation. No sampling was conducted, presumably because there was no discharge from the storm water basins.