WEST
Environmental Services & Technology
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SOIL GAS SAMPLING AND INTRINSIC PERMEABILITY TESTING FIELD DATA SHEET

Date: 3/2/06. **Sampled by:** RM/SS.

Project: DeSilva Hayward.

Weather Conditions: Blue sky, 9°C, no wind, rain previous night

SOIL GAS SAMPLING

Summa Canister ID: SS-215 Sample time: START 8:16 – STOP 8:26

Canister atmosphere before sampling: 30 (in. water)

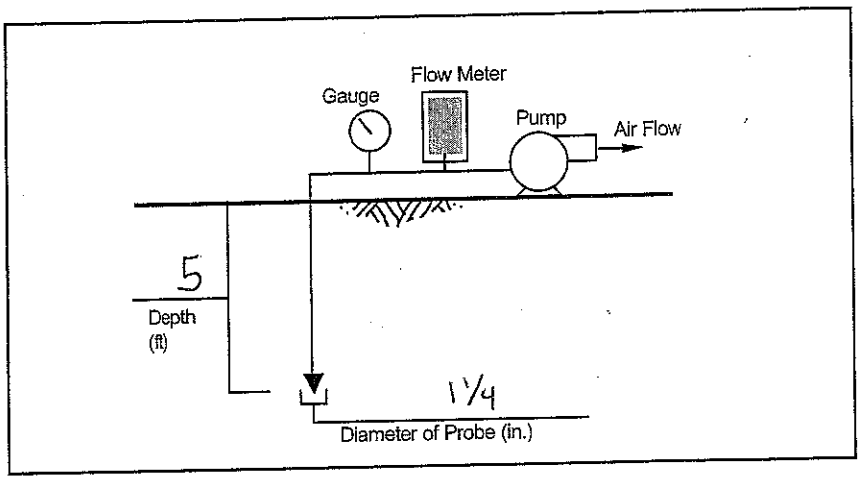
Canister atmosphere after sampling: 0 (in. water)

Tubing I.D.: 0.17" Length of Tubing (ft): 13

Tubing Volume (L/ft): 0.009 Purge volume (L): 0.058

INTRINSIC PERMEABILITY TESTING

Sample ID: W-31-5



purge volume

	sec	
1	13	0.3
3	39	1.0
7	91	1.0

purge 3 well volumes.

	Test 1	Test 2	Test 3
Vacuum (in. water)	3.5 → 3.0	5.0	7.0 → 7.5
Meter Reading/Flow Rate (cc/min)	20 / 235	25 / 365	30 / 537
Length of Test (sec.)	30	30	30

Observations: 5-6" thick concrete; spraying 1,1,2-tetrafluoroethane for leak detection

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SOIL GAS SAMPLING AND INTRINSIC PERMEABILITY TESTING FIELD DATA SHEET

Date: 3/2/06 **Sampled by:** WEST (RM)

Project: Desilva. Hayward

Weather Conditions: clear skies (some clouds on horizon), cold ~11°C, breeze from west

SOIL GAS SAMPLING

Summa Canister ID: SS-214 Sample time: START 0931 – STOP 1031

Canister atmosphere before sampling: 30' (in. water)

Canister atmosphere after sampling: 9' (in. water)

Tubing I.D.: 0.17" Length of Tubing (ft): 20 to PID; 10 to summa

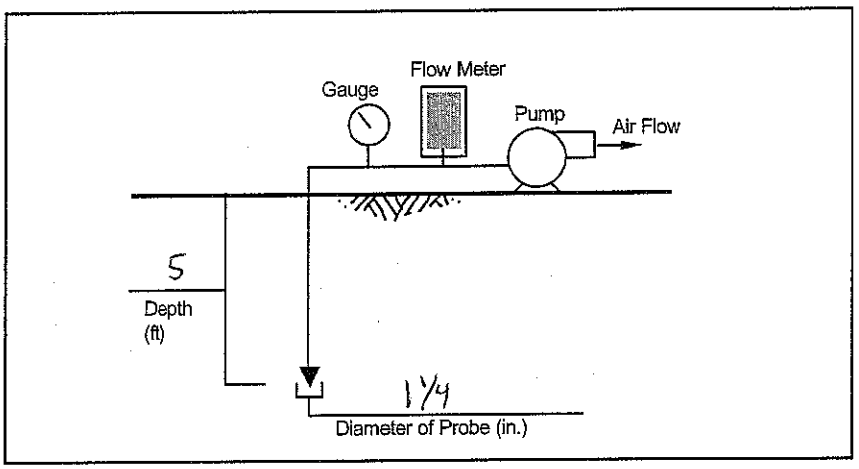
Tubing Volume (L/ft): 0.009 Purge volume (L): 0.089

INTRINSIC PERMEABILITY TESTING

Sample ID: W-25-5

purge volume

1	20	0.8
3	60	1.0
7	140	0.5



	Test 1	Test 2	Test 3
Vacuum (in. water)	~5		
Meter Reading/Flow Rate (cc/min)	20 / 235		
Length of Test (sec.)	30		

Observations: @0943 pull up slightly as atm. stuck ~24" (pulled up to 2' opening) → still no movement, closed summa & purged 3 volumes again, restart @ 0951 → moving (3x) ~6" concrete; v. dk moist soil @ 3'

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SOIL GAS SAMPLING AND INTRINSIC PERMEABILITY TESTING FIELD DATA SHEET

Date: 3/2/06 **Sampled by:** RM

Project: Desilva - Hayward

Weather Conditions: clear skies (cloudy on horizon), cool, breeze from S, ~13°C

SOIL GAS SAMPLING

Summa Canister ID: SS-216 Sample time: START 1117 — STOP 1126

Canister atmosphere before sampling: 30" (in. water)

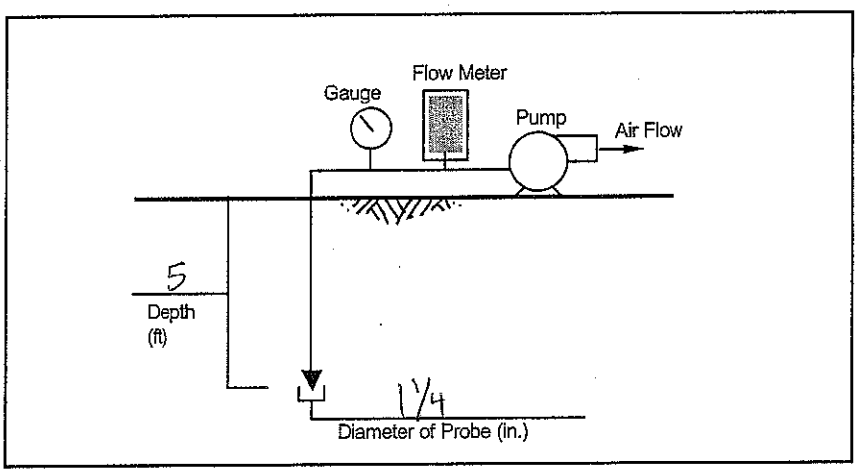
Canister atmosphere after sampling: 0" (in. water)

Tubing I.D.: 0.17" Length of Tubing (ft): 20' to pump; 18' to summa

Tubing Volume (L/ft): 0.009 Purge volume (L): 0.089

INTRINSIC PERMEABILITY TESTING

Sample ID W-30-5



	Test 1	Test 2	Test 3
Vacuum (in. water)	5.0 → 5.5	7.0 → 6.75	12 → 11.75 → 12
Meter Reading/Flow Rate (cc/min)	20 / 235	25 / 365	32 / 630
Length of Test (sec.)	30	30	30

Observations: sprayed 1,1,1,2-TFA for leak detection; ~4" concrete

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SOIL GAS SAMPLING AND INTRINSIC PERMEABILITY TESTING FIELD DATA SHEET

Date: 3/2/06 **Sampled by:** WEST (RM)

Project: Desilva. Hayward

Weather Conditions: clear skies w/clouds on horizon, ~16°C, wind from S

SOIL GAS SAMPLING

Summa Canister ID: S-521 Sample time: START 1156 - STOP 1220

Canister atmosphere before sampling: 30 (in. water)

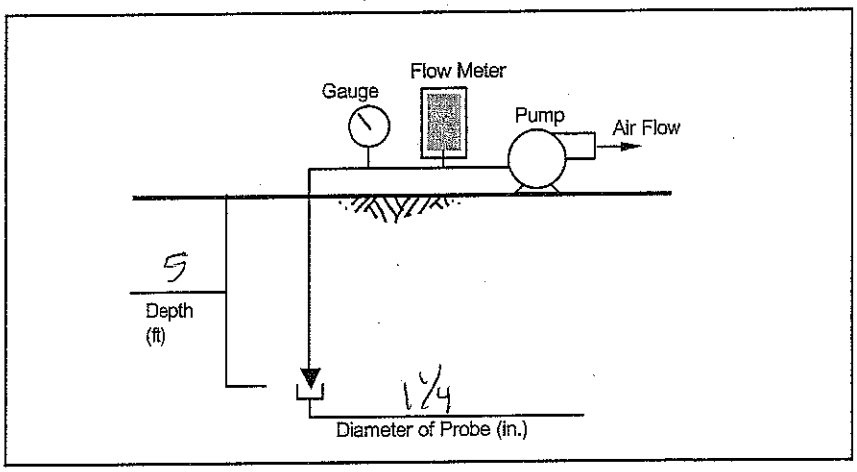
Canister atmosphere after sampling: 2" (in. water)

Tubing I.D.: 0.17" Length of Tubing (ft): 20

Tubing Volume (L/ft): 0.009 Purge volume (L): 0.089

INTRINSIC PERMEABILITY TESTING

Sample ID W-28-5



	Test 1	Test 2	Test 3
Vacuum (in. water)	5.5 → 5.0	6.5 → 7.0	12.5 → 13
Meter Reading/Flow Rate (cc/min)	20 / 235	25 / 365	32 / 630
Length of Test (sec.)	30	30	30

Observations: ~5" concrete

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SOIL GAS SAMPLING AND INTRINSIC PERMEABILITY TESTING FIELD DATA SHEET

Date: 3/2/06 **Sampled by:** WEST (RM)

Project: Desilva-Hayward

Weather Conditions: partly cloudy, mostly sunny, ~13°C, wind from S

SOIL GAS SAMPLING

Summa Canister ID: S-255 Sample time: START 1245 - STOP 1321

Canister atmosphere before sampling: 28 (in. water)

Canister atmosphere after sampling: 8 (in. water)

Tubing I.D.: 0.17" Length of Tubing (ft): 20

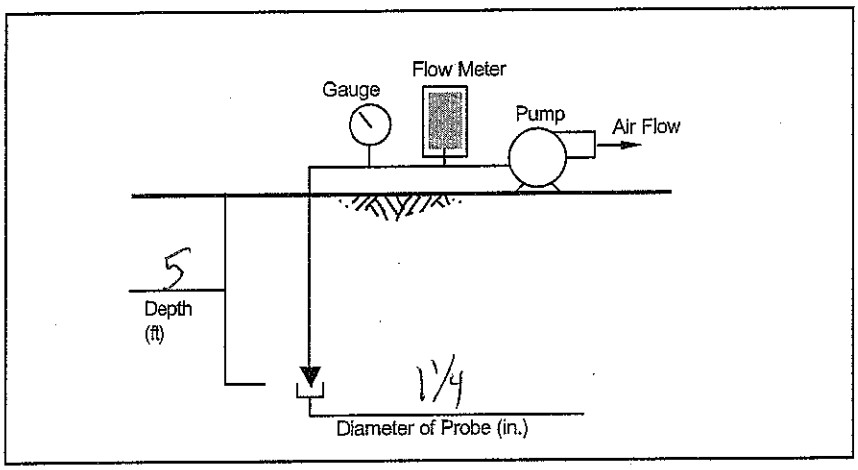
Tubing Volume (L/ft): 0.009 Purge volume (L): 0.089

INTRINSIC PERMEABILITY TESTING

Sample ID W-21-5

Purge volume

1	20sec	0
3	60sec	0
7	140sec	0



	Test 1	Test 2	Test 3
Vacuum (in. water)	13→8 (in 10sec)→7	11→11.5→12	15→14.5
Meter Reading/Flow Rate (cc/min)	20 / 235	25 / 365	32 / 630
Length of Test (sec.)	30	30	30

Observations: ~4" concrete; @1254 stuck @ 20" pull up 6" then 6"; @1258 closed & 3 vol purge (4x)

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SOIL GAS SAMPLING AND INTRINSIC PERMEABILITY TESTING FIELD DATA SHEET

Date: 3/2/06 **Sampled by:** WEST (RM)

Project: Desilva Hayward

Weather Conditions: Cloudy & sunny, wind from south ~14°C

SOIL GAS SAMPLING

Summa Canister ID: S-250 Sample time: START 1354 - STOP 1426

Canister atmosphere before sampling: 30" (in. water)

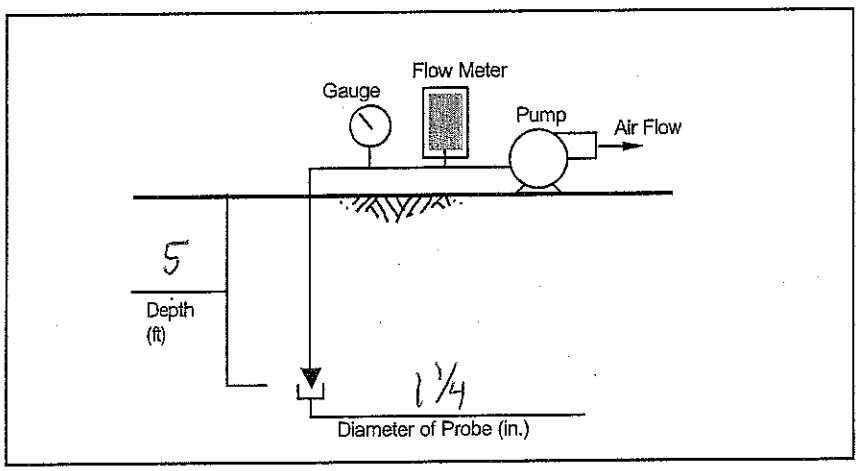
Canister atmosphere after sampling: 10" (in. water)

Tubing I.D.: 0.17" Length of Tubing (ft): 20

Tubing Volume (L/ft): 0.009 Purge volume (L): 0.089

INTRINSIC PERMEABILITY TESTING

Sample ID W-22-5



	Test 1	Test 2	Test 3
Vacuum (in. water)	12 → 8.5	11.5 → 11	21.5 → 22
Meter Reading/Flow Rate (cc/min)	20 / 235	25 / 365	33 / 675
Length of Test (sec.)	30	30	

Observations: ~4" concrete; stuck @ ~18" → repurge (2x)

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SOIL GAS SAMPLING AND INTRINSIC PERMEABILITY TESTING FIELD DATA SHEET

Date: 3/2/06 **Sampled by:** WEST (RM)

Project: Desilva. Hayward

Weather Conditions: partly cloudy & sunny ; cool ~14°C, wind from SW

SOIL GAS SAMPLING

Summa Canister ID: S-106 Sample time: START STOP 1504 - 1530

Canister atmosphere before sampling: 30 (in. water)

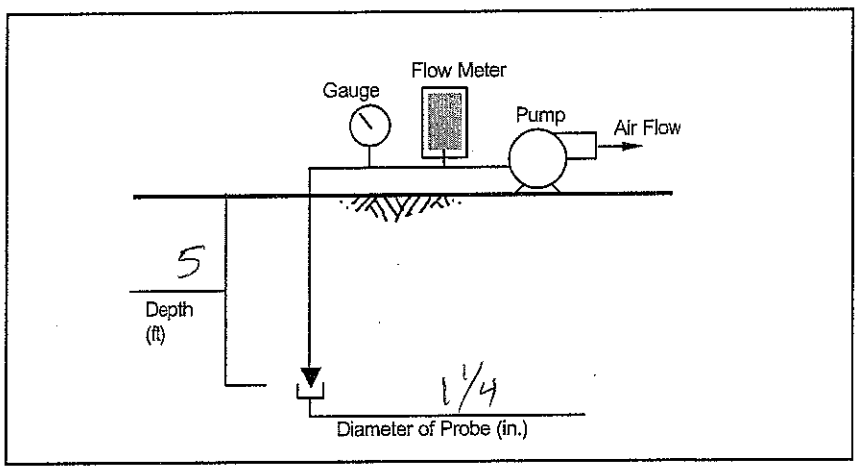
Canister atmosphere after sampling: 10" (in. water)

Tubing I.D.: 0.17" Length of Tubing (ft): 20

Tubing Volume (L/ft): 0.009 Purge volume (L): 0.089

INTRINSIC PERMEABILITY TESTING

Sample ID W-23-5



	Test 1	Test 2	Test 3
Vacuum (in. water)	6.5→6	9.5→9	11.5→12→11.5
Meter Reading/Flow Rate (cc/min)	18 / 195	27 / 440	34 / 720
Length of Test (sec.)	30	30	30

Observations: ~4" concrete; stuck @20" repurge *4,

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SOIL GAS SAMPLING AND INTRINSIC PERMEABILITY TESTING FIELD DATA SHEET

Date: 3/2/06 **Sampled by:** WEST (RM)

Project: Desilva, Hayward

Weather Conditions: cloudy/sunny skies, ~13°C, wind from south

SOIL GAS SAMPLING

Summa Canister ID: S-310 (W-24-5) S-311 (W-24-5D) Sample time: START 1615 – STOP 1706

Canister atmosphere before sampling: 30 (in. water)

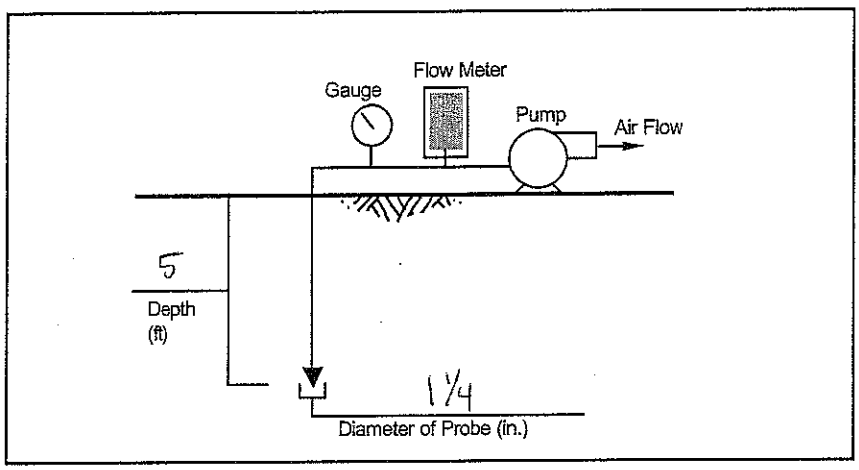
Canister atmosphere after sampling: 10 (in. water)

Tubing I.D.: 0.17" Length of Tubing (ft): 20

Tubing Volume (L/ft): 0.009 Purge volume (L): 0.089

INTRINSIC PERMEABILITY TESTING

Sample ID W-24-5 & W-24-5D



	Test 1	Test 2	Test 3
Vacuum (in. water)	10 → 8.5	12 → 11.75	18.5 → 19 → 18.5
Meter Reading/Flow Rate (cc/min)	20 / 235	26 / 400	33 / 675
Length of Test (sec.)	30	30	30

Observations: ~4" concrete; 1,1,1,2-TFA leak det.

APPENDIX

Canister Sampling Field Data Sheet

SUMMA AIR SAMPLING WORK SHEET

Site: 22958 Saklan Rd, Hayward
Samplers: 1L Summas
Date: March 2, 2006

Site#: Desilva. Hayward
Work Assignment Manager: Sharon Squire
Project Leader: Sharon Squire

Sample #	W-31-5	W-25-5	W-30-5	W-28-5	W-21-5
Location	W-31	W-25	W-30	W-28	W-21
SUMMA ID	SS-215	SS-214	SS-216	S-521	S-255
Orifice Used	—	—	—	—	—
Analysis/Method	TO-14-VOCs	TO-14-VOCs	TO-14-VOCs	TO-14-VOCs	TO-14-VOCs
Time (Start)	0816	0931	1117	1156	1245
Time (Stop)	0826	1031	1126	1220	1321
Total Time	10min	1 hour	9 min	24min	36min
SUMMA WENT TO AMBIENT	YES/NO	YES/NO	YES/NO	YES/NO*	YES/NO**
Pressure Gauge	30	30	30	30	28 (30)
Pressure Gauge	0	9	0	2	8 (10)
Flow Rate (Pre)					
Flow Rate (Post)					
Flow Rate (Average)					

MET Station On-site? Y / N

General Comments: ** gauge/scale on W-21-5 was ~-2 @ start (before opening); * also for W-28-5 (went to ambient)

APPENDIX

Canister Sampling Field Data Sheet

SUMMA AIR SAMPLING WORK SHEET

Site: 22958 Saklan Rd, Hayward
Samplers: IL Summas
Date: March 2, 2006

Site#: Desilva. Hayward
Work Assignment Manager: Sharon Squire
Project Leader: Sharon Squire

Sample #	W-22-5	W-23-5	W-24-5	W-24-5D	
Location	W-22	W-23	W-24	W-24	
SUMMA ID	S-250	S-106	S-310	S-311	
Orifice Used	—	—	—	—	
Analysis/Method	TO-14-VOCs	TO-14-VOCs	TO-14-VOCs	TO-14-VOCs	TO-14-VOCs
Time (Start)	1354	1504	1615	1615	
Time (Stop)	1426	1530	1706	1706	
Total Time	32min	26min	51min	51min	
SUMMA WENT TO AMBIENT	YES/NO	YES/NO	YES/NO	YES/NO	YES/NO
Pressure Gauge	30	30	30	30	
Pressure Gauge	10	10	10	10	
Flow Rate (Pre)					
Flow Rate (Post)					
Flow Rate (Average)					

MET Station On-site? Y / N

General Comments:

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GROUND WATER QUALITY WELL DEVELOPMENT FIELD DATA SHEET

Location ID: MW-1 Date: 3/2/06.

Sampled By: SS. Sampling Time: N/A

Project/Site Name: Saxton Rd, Hayward, CA Project No: DeSilva-Hayward

Location type: monitoring well, supply well, soil boring, other

Sampling Method: Surge block & peri. pump with tubing.

Weather (Skies, temperature, wind):

Well Diameter (in) 0.75

Well Elevation (ft)

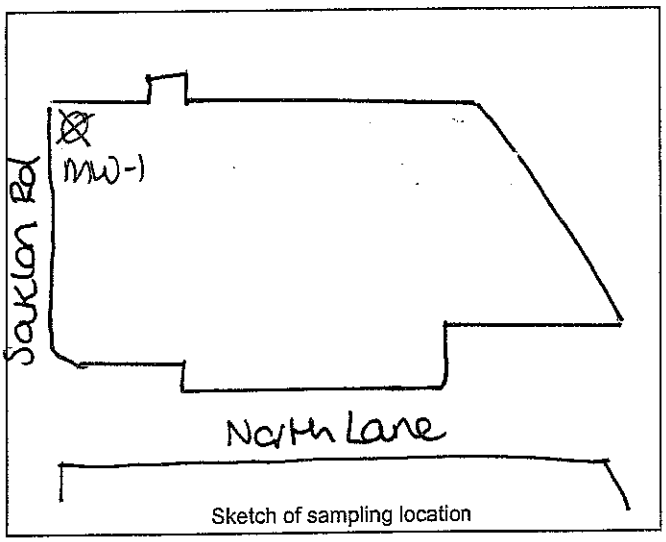
Well Casing Depth (ft)

Depth to Water (ft))

Standing Water Volume (gal)

Purge Rate: (gal/min)

Purge Method:



Sketch of sampling location

Observations/Comments:

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. (µS/cm)	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
14:00	—	0	18.0	6.74	1841	680	—	—	turbid
—	—	0.4	18.0	6.74	1831	486	—	—	Pale brown
—	—	0.8	17.7	6.55	710	405	—	—	"
—	—	1.2	17.8	6.50	958	269	—	—	"
—	—	1.6	18.1	6.63	1373	526	—	—	translucent
—	—	2.0	17.7	6.63	1110	31.1	—	—	"
—	—	2.1	17.5	6.71	1250	31.5	—	—	clearer
—	—	2.2	17.6	6.64	1046	9.2	—	—	clear

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot

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GROUND WATER QUALITY WELL DEVELOPMENT FIELD DATA SHEET

Location ID: MW-2 **Date:** 3/2/06

Sampled By: SS **Sampling Time:** N/A

Project/Site Name: Saxton Rd, Hayward, CA **Project No:** DeSilva: Hayward

Location type: monitoring well, supply well, soil boring, other

Sampling Method: Surge block & peri. pump with tubing.

Weather (Skies, temperature, wind):

Well Diameter (in) 0.75

Well Elevation (ft)

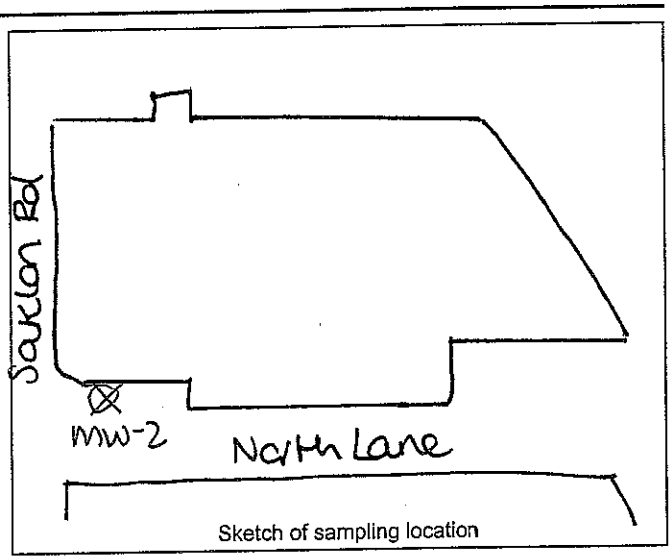
Well Casing Depth (ft)

Depth to Water (ft)

Standing Water Volume (gal)

Purge Rate: (gal/min)

Purge Method:



Sketch of sampling location

Observations/Comments:

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. ~~(µS/cm)~~ mS	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
14:45		0.4	19.2	651	3.00	>	—	—	Turbid
		0.8	19.1	6.51	2.69	540	—	—	
		1.2	19.1	6.69	3.83	658	—	—	pale brown
		1.6	19.2	6.59	3.94	406	—	—	
		2.0	18.4	7.00	4.25	200	—	—	
		2.4	18.5	6.71	1.413	162	—	—	
		2.6	18.4	6.69	1.413	52	—	—	
		2.8	18.4	6.68	1.420	30.4	—	—	translucent
		3.0	18.4	6.69	1.421	11.5		—	
		3.1	18.5	6.70	1.490	9.8		—	clear

2-inch casing = 0.16 gallons/foot
4-inch casing = 0.65 gallons/foot
6 inch casing = 1.47 gallons/foot
7.48 gallons per cubic foot

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GROUND WATER QUALITY WELL DEVELOPMENT FIELD DATA SHEET

Location ID: MW-3 **Date:** 3/3/06

Sampled By: SS. **Sampling Time:** N/A.

Project/Site Name: Saklan Rd, Hayward, CA **Project No:** DeSilva Hayward

Location type: monitoring well, supply well, soil boring, other

Sampling Method: Surge block & peri. pump with tubing.

Weather (Skies, temperature, wind): Gray sky, ~10°C, light rain, no wind.

Well Diameter (in) 0.75

Well Elevation (ft)

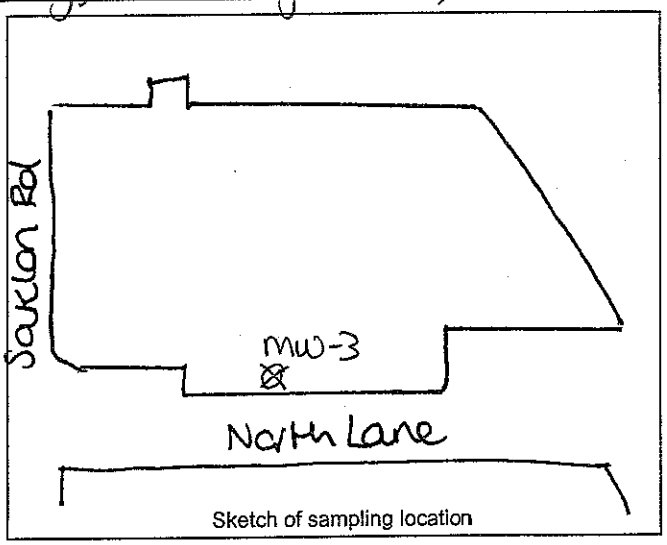
Well Casing Depth (ft)

Depth to Water (ft)

Standing Water Volume (gal)

Purge Rate: (gal/min)

Purge Method: surge block & tubing



Sketch of sampling location

Observations/Comments: Tubing at bottom of screen

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. ~~(µS/cm)~~ mS	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
11:45	—	0	18.6	7.61	8.21	359	16.6	1.47	olive green
11:53	—	0.4	19.4	7.76	8.54	214	6.8	0.64	opaque yellow-white
11:57	—	0.8	19.2	7.75	8.05	59.6	17.7	1.63	clearer
12:02	—	1.2	19.2	7.76	7.94	88.7	9.3	0.89	translucent pale gray-yellow
12:07	—	1.6	19.1	7.75	7.81	20.5	17.2	1.54	Almost clear
12:11	—	2.1	19.1	7.77	7.75	98	11.0	1.03	opaque white
12:17	—	2.3	18.8	7.75	7.62	28.5	18.7	1.72	clear
12:19	—	2.6	19.1	7.80	7.57	11.3	15.3	1.46	clear
12:25	—	3.0	19.4	7.55	7.53	8.56	12.1	1.11	clear

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot

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GROUND WATER QUALITY WELL DEVELOPMENT FIELD DATA SHEET

Location ID: MW-4 **Date:** 3/2/06

Sampled By: SS. **Sampling Time:** N/A.

Project/Site Name: Dalton Rd, Hayward, CA **Project No:** DeSilva: Hayward.

Location type: monitoring well, supply well, soil boring, other

Sampling Method: Surge block & peri. pump with tubing.

Weather (Skies, temperature, wind):

Well Diameter (in) 0.75

Well Elevation (ft)

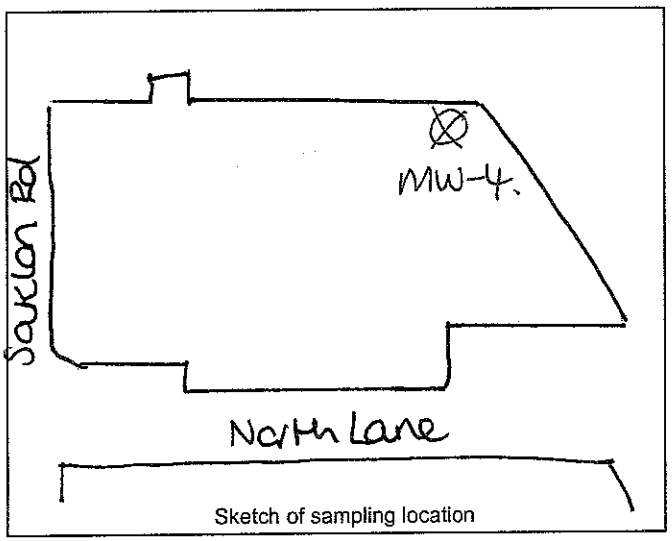
Well Casing Depth (ft)

Depth to Water (ft)

Standing Water Volume (gal)

Purge Rate: (gal/min)

Purge Method:



Sketch of sampling location

Observations/Comments:

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. (µS/cm)	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
		0	19.2	6.42	1758	>	—	—	
		0.4	19.1	6.34	1989	319	—	—	
		0.8	18.6	6.53	1375	214	—	—	
		1.2	18.2	6.56	1200	121	—	—	
		1.4	17.9	6.47	96	131	—	—	
		1.6	15.4	6.43	1131	90	—	—	
		2.0	15.2	6.42	1201	54	—	—	
		2.2	15.2	6.42	1104	21	—	—	
		2.4	15.2	6.42	1102	9.6			

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot

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GROUND WATER QUALITY SAMPLE COLLECTION FIELD DATA SHEET

Duplicate MW-1D @ 11:30

Location ID: MW-1

Date: 3/3/06

Sampled By: SS.

Sampling Time: 11:28.

Project/Site Name: Saklan Road, Hayward CA. Project No: DeSilva-Hayward

Location type: monitoring well, supply well, soil boring, other

Sampling Method: Low flow purge

Weather (Skies, temperature, wind): Gray sky, 7degrees C, light rain, no wind

Well Diameter (in) 0.75

Well Elevation (ft) 41.64 (MSL)

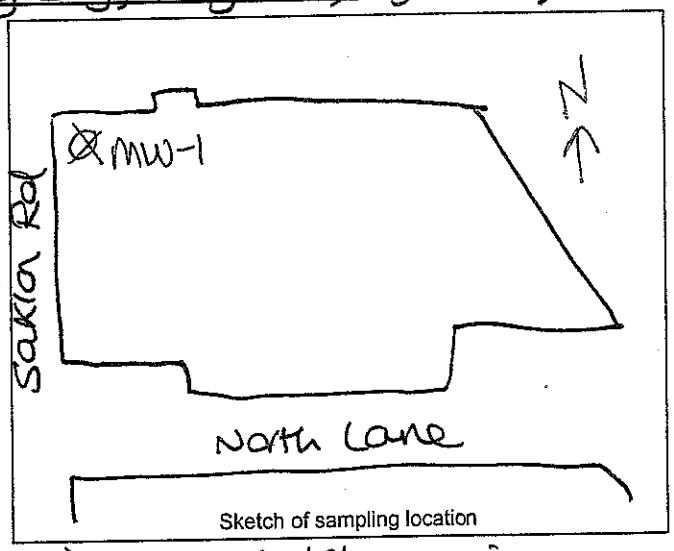
Well Casing Depth (ft) 25.71

Depth to Water (ft)) 15.33 (08:17)

Standing Water Volume (gal)

Purge Rate: (gal/min)

Purge Method: low flow



Sketch of sampling location

Observations/Comments: Bottom of tubing ~ 20 ft below casing.

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. (µS/cm)	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
11:09	15.31	0	17.6	7.47	1425	119	76.5	7.06	Pale yellow
11:12	—	0.2	17.6	7.57	1447	271	46.6	4.49	pale brown
11:15	15.36	0.4	17.5	7.58	1453	63.6	39.1	3.75	translucent
11:18	—	0.6	17.6	7.57	1432	28.8	34.6	3.45	
11:21	15.41	0.8	17.6	7.52	1425	14.50	34.1	3.28	
11:24	—	1.0	17.6	7.56	1416	11.54	33.4	3.21	
11:27	15.48	1.2	17.7	7.53	1414	9.51	33.2	3.18	clear.

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot

WEST
Environmental Services & Technology

GROUND WATER QUALITY SAMPLE COLLECTION
FIELD DATA SHEET

Location ID: MW-2 **Date:** 3/3/06

Sampled By: SS. **Sampling Time:** 09:35

Project/Site Name: Saklan Road, Hayward CA. **Project No:** DeSilva-Hayward

Location type: monitoring well, supply well, soil boring, other

Sampling Method: Low flow purge

Weather (Skies, temperature, wind): Gray sky, 7degrees C, light rain, no wind

Well Diameter (in) 0.75

Well Elevation (ft) 42.22 (MSL)

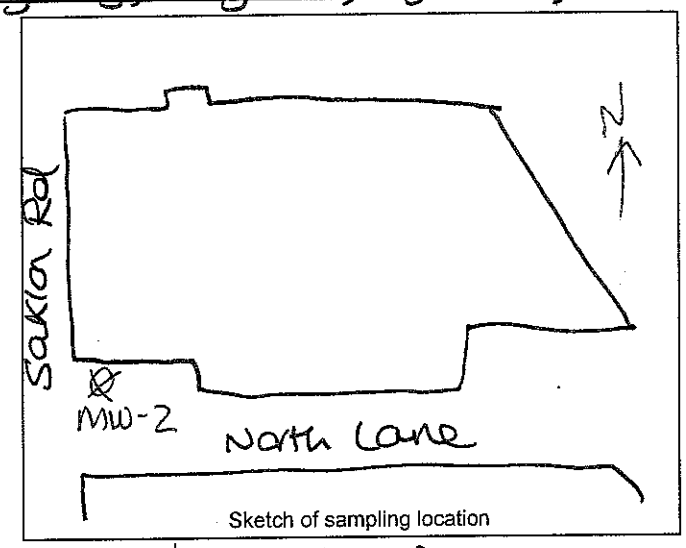
Well Casing Depth (ft) 26.41

Depth to Water (ft)) 16.05 (08:05)

Standing Water Volume (gal)

Purge Rate: (gal/min)

Purge Method: low flow



Sketch of sampling location

Observations/Comments: 0 ppm PID when opening well cap
Bottom of tubing approx 21 feet below top of casing.

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. ~~(µS/cm)~~ MS/CM	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
09:02	16.05	0	18.0	7.00	3.74	231	33.7	3.15	Pale yellow translucent
09:05	16.20	0.2	17.3	6.98	3.71	113	23.8	2.31	"
09:08	16.20	0.3	18.0	6.98	3.65	115	41.1	3.85	"
09:12	16.20	0.4	17.8	6.94	3.63	22.6	24.7	2.42	Almost clear
09:15	16.18	0.5	17.5	6.90	3.70	48.1	18.7	1.76	
09:18	16.17	0.55	17.8	6.92	3.73	47.4	15.8	1.53	
09:21	16.17	0.6	17.8	6.93	3.73	18.1	14.0	1.34	
09:24	16.16	0.7	17.8	6.93	3.74	7.98	13.0	1.26	clear
09:27	16.15	0.8	17.8	6.94	3.74	6.23	12.3	1.17	"
09:30	16.14	0.9	17.8	6.94	3.75	4.52	12.3	1.16	"

2-inch casing = 0.16 gallons/foot 4-inch casing = 0.65 gallons/foot 6 inch casing = 1.47 gallons/foot
7.48 gallons per cubic foot

WEST
Environmental Services & Technology

GROUND WATER QUALITY SAMPLE COLLECTION FIELD DATA SHEET

Location ID: MW-3 Date: 3/3/06

Sampled By: SS. Sampling Time: 12:40

Project/Site Name: Saklan Road, Hayward CA. Project No: DeSilva-Hayward

Location type: monitoring well, supply well, soil boring, other

Sampling Method: Low flow purge

Weather (Skies, temperature, wind): Gray sky, 7degrees C, light rain, no wind

Well Diameter (in) 0.75

Well Elevation (ft) 43.48 (MSL)

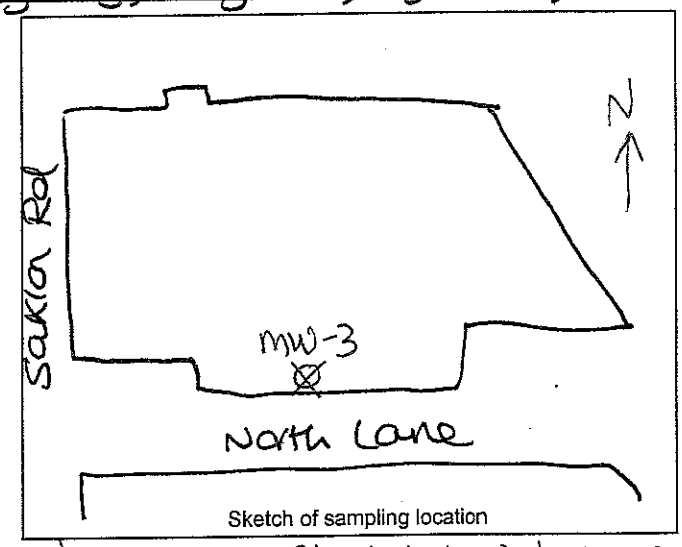
Well Casing Depth (ft) 26.63

Depth to Water (ft)) 16.12 (08:13)

Standing Water Volume (gal)

Purge Rate: (gal/min)

Purge Method: low flow



Sketch of sampling location

Observations/Comments: Bottom of tubing approx 21 ft below top of casing.

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. (µS/cm)	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
12:25	16.12	0	19.1	7.76	7.38	38.9	26.1	2.47	clear
12:28	16.14	0.2	19.7	7.83	7.42	9.69	25.3	2.28	"
12:31	16.14	0.3	19.8	7.80	7.32	25.5	16.8	1.86	"
12:34	16.15	0.5	19.5	—	—	9.93	7.8	0.69	PH conducting meter stopped reading
12:37	16.16	0.6	19.4	—	—	4.78	6.5	0.59	clear
12:40	16.18	0.7	19.3	—	—	4.37	6.4	0.59	clear

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot

WEST
Environmental Services & Technology

GROUND WATER QUALITY SAMPLE COLLECTION
FIELD DATA SHEET

Location ID: MW-4 **Date:** 3/3/06

Sampled By: SS. **Sampling Time:** 10:38

Project/Site Name: Saklan Road, Hayward CA. **Project No:** DeSilva-Hayward

Location type: monitoring well, supply well, soil boring, other

Sampling Method: Low flow purge

Weather (Skies, temperature, wind): Gray sky, 7degrees C, light rain, no wind

Well Diameter (in) 0.75

Well Elevation (ft) 26.55

Well Casing Depth (ft) 16.81 (08:08)

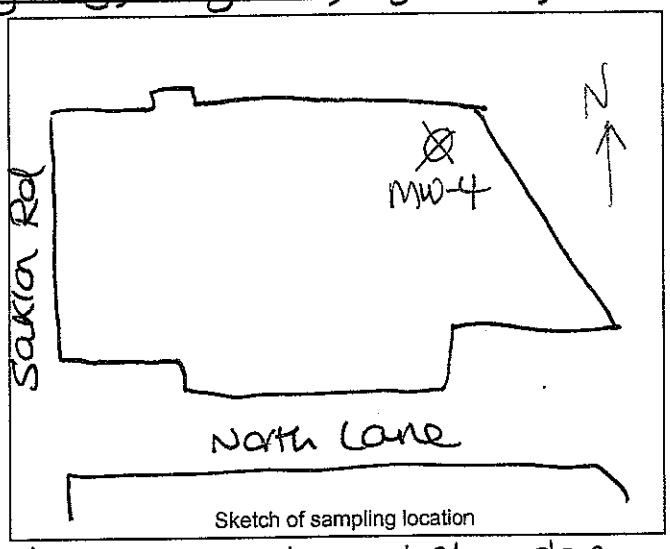
Depth to Water (ft))

44.98 msl

Standing Water Volume (gal)

Purge Rate: (gal/min)

Purge Method: low flow.



Sketch of sampling location

Observations/Comments: Bottom of tubing approx 21 feet below top of casing.

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. (µS/cm)	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
10:07	16.85	0	17.4	6.84	1634	153	56.1	5.28	Pale yellow
10:10	—	0.05	18.0	6.90	1666	154	51.0	4.91	"
10:13	17.84	0.1	18.2	6.98	1874	548	32.6	3.08	Slightly darker yellow
10:16	17.90	0.15	15.6	7.14	1916	163	32.9	3.24	Pale
10:19	17.91	0.2	17.3	7.37	1393	201	31.1	2.91	Pale
10:22	17.94	0.25	17.9	7.35	1440	144	28.2	2.72	
10:25	17.96	0.3	17.5	7.35	1481	66	24.6	2.31	Clear
10:28	17.97	0.35	17.1	7.32	1497	34.5	28.6	2.74	Clear
10:31	17.98	0.38	16.9	7.32	1483	26.9	28.6	2.73	
10:34	17.96	0.4	16.9	7.32	1482	24	28.6	2.73	

2-inch casing = 0.16 gallons/foot 4-inch casing = 0.65 gallons/foot 6 inch casing = 1.47 gallons/foot
7.48 gallons per cubic foot

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GROUND WATER QUALITY SAMPLE COLLECTION FIELD DATA SHEET

Location ID: Water Supply Well **Date:** 03/03/06

Sampled By: SS **Sampling Time:** NA

Project/Site Name: DeSilva Sakhan **Project No:** DeSilva Sakhan

Location type: monitoring well, supply well, soil boring, other

Sampling Method: Gray sky, 7°C, light rain, no wind. (NA)

Weather (Skies, temperature, wind):

Well Diameter (in) Approx 6"

Well Elevation (ft) —

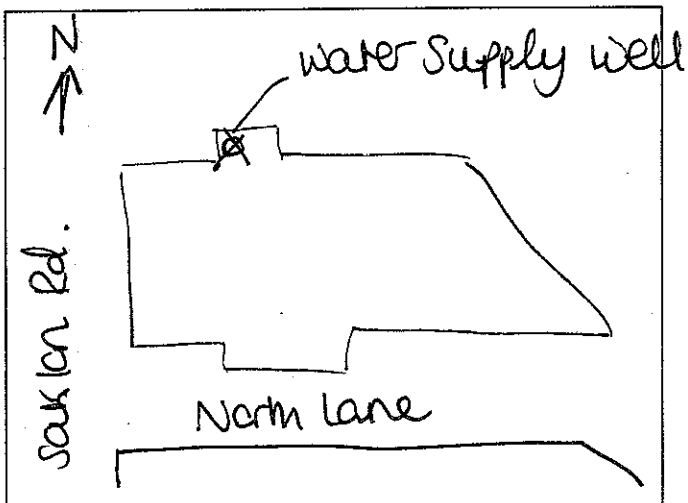
Well Casing Depth (ft) 16.85 (08/22)

Depth to Water (ft)

Standing Water Volume (gal) N/A.

Purge Rate: (gal/min) N/A

Purge Method:



Sketch of sampling location

Observations/Comments:

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. (µS/cm)	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
					N/A.				

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot

WEST
Environmental Services & Technology

GROUND WATER QUALITY SAMPLE COLLECTION FIELD DATA SHEET

Location ID: MW-1.

Date: ~~3/6~~ 3/7/06.

Sampled By: SS

Sampling Time: 14-20

Project/Site Name: DeSilva Hayward.

Project No: DeSilva. Hayward.

Location type: monitoring well, supply well, soil boring, other_____

Sampling Method: Low flow

Weather (Skies, temperature, wind): Blue sky, 16°C, 2km, light rain.

Well Diameter (in) 0.75

Well Elevation (ft) 41.64

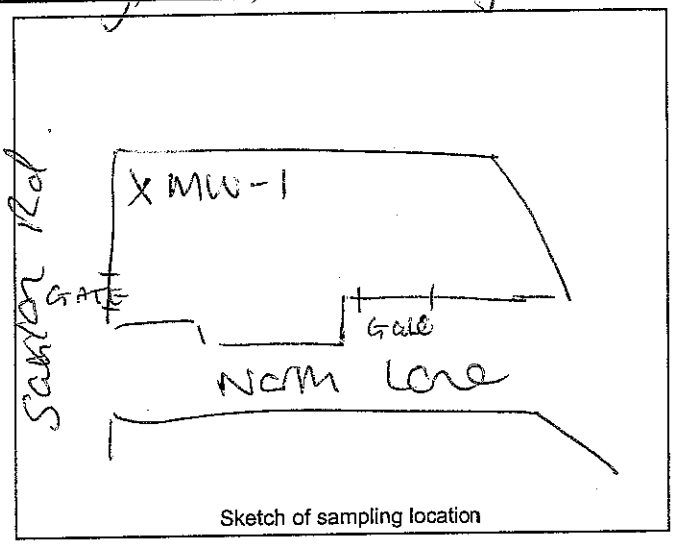
Well Casing Depth (ft) 25.71

Depth to Water (ft) 15.23 (13.57)

Standing Water Volume (gal)_____

Purge Rate: (gal/min)_____

Purge Method: low flow



Sketch of sampling location

Observations/Comments:_____

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. (µS/cm)	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
14.03	15.23	0	18.2	6.86	1416	29.1	49.5	4.07	clear.
14 06	15.25	0.1	17.8	6.86	1750	37.6	35.6	3.49	
14 09	15.27	0.2	18.0	6.82	1720	~~3.32~~ 26.9	33.2	3.08	
14 12	15.30	0.3	18.2	6.75	1670	18.5	28.0	2.68	
14 15	15.32	0.4	18.4	6.75	1590	13.43	27.3	2.61	
14 18	15.35	0.5	18.5	6.74	1560	9.06	25.7	2.58	✓

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot

WEST
Environmental Services & Technology

GROUND WATER QUALITY SAMPLE COLLECTION FIELD DATA SHEET

Location ID: MW-2 **Date:** 3/7/06.

Sampled By: SS **Sampling Time:** 12:30

Project/Site Name: DeSilva - Hayward **Project No:** DeSilva Hayward.

Location type: monitoring well, supply well, soil boring, other

Sampling Method: Low flow.

Weather (Skies, temperature, wind): Blue, 16°C, 2knt, light rain.

Well Diameter (in) 0.75.

Well Elevation (ft) 42.22

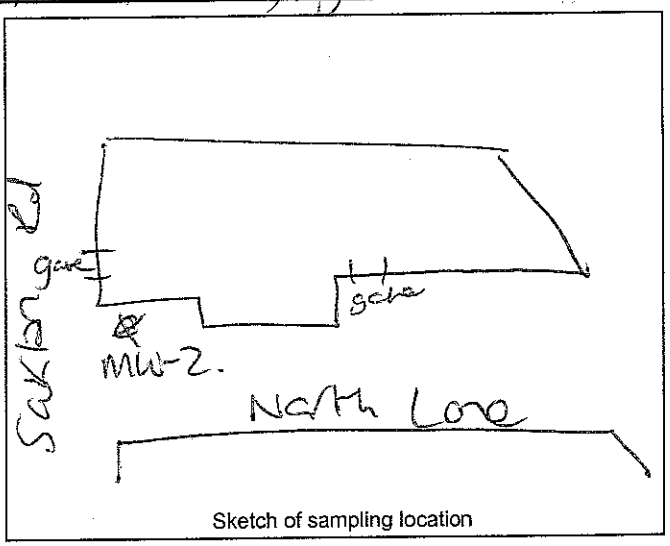
Well Casing Depth (ft) 26.41

Depth to Water (ft) 15.94 (12.04)

Standing Water Volume (gal)

Purge Rate: (gal/min)

Purge Method: low flow.



Sketch of sampling location

Observations/Comments:

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. ~~(µS/cm)~~ mS	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
12:09	15.94	0	17.7	6.89	~~4.78~~	72.9	72.8	~~8.37~~ 7.57	Pale white translucent
12:12	15.96	0.1	17.6	7.16	3.42	149	~~44~~ 45.2	3.93	cloudier.
12:15	15.97	0.2	17.6	—	—	87	39.5	3.79	PH meter stopped reading
12:18	15.98	0.3	18.3	~~6.77~~ 6.77	4.10	~~8~~ 138	17.7	1.65	—
12:21	16.00	0.4	18.4	6.77	4.13	127	15.9	1.50	—
12:24	16.02	0.5	18.3	6.77	4.15	66.	19.2	1.85	rel. clear.
12:27	16.04	0.6.	18.2	6.78	4.14.	47.6	21.5	2.02	—
12:30	16.05	0.7	18.2	6.79	4.12	22.9	23.2	2.22	clearer

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot
GW-Field Data Sht-1_revised.doc

& new batteries, fixed.

WEST
Environmental Services & Technology

GROUND WATER QUALITY SAMPLE COLLECTION
FIELD DATA SHEET

Location ID: MW-3 **Date:** 3/7/06

Sampled By: SS. **Sampling Time:** 13:49.

Project/Site Name: Desilva Hayward **Project No:** Desilva Hayward

Location type: monitoring well, supply well, soil boring, other

Sampling Method: Blue, 16°C, 2hr, light rain

Weather (Skies, temperature, wind): low flow.

Well Diameter (in) 0.75

Well Elevation (ft) 43.48

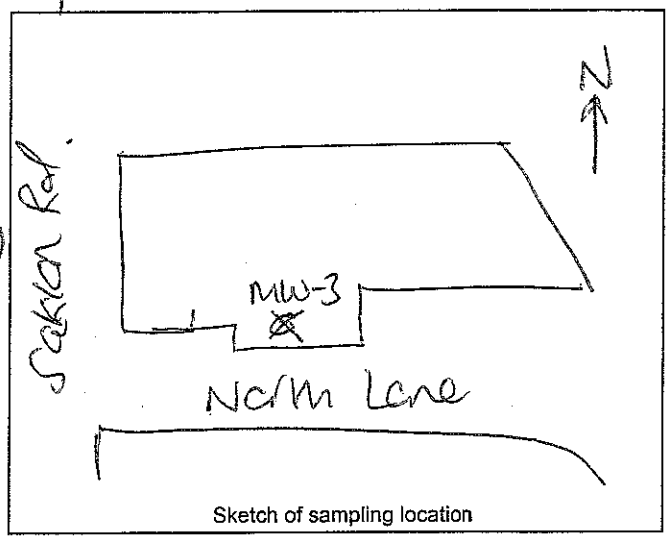
Well Casing Depth (ft) 26.63.

Depth to Water (ft) 15.97 (13:27)

Standing Water Volume (gal)

Purge Rate: (gal/min)

Purge Method: low flow



Sketch of sampling location

Observations/Comments:

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. ~~(µS/cm)~~ mS	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
13:33	15.97	0	18.2	6.82	6.94	77.1	28.9	2.59	clear.
13 36	15.99	0.05	18.7	7.02	7.04	22.8	20.5	1.89	
13 39	16.03	0.10	19.1	6.83	7.48	14.4	24.5	~~2.52~~ 2.18	
13 42	16.07	0.15	19.3	6.81	7.53	10.46	17.0	1.61	clear.
13 45	16.12	0.20	19.4	6.81	7.59	9.72	11.1	1.01	clear.
13.49	16.15	0.25	19.4	6.81	7.60	7.80	8.7.	0.81	

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot

WEST
Environmental Services & Technology

GROUND WATER QUALITY SAMPLE COLLECTION
FIELD DATA SHEET

Pump. MWID @

Location ID: MW-4 **Date:** 3/7/06 13:05.

Sampled By: SS. **Sampling Time:** 13:03.

Project/Site Name: DeSilva Hayward **Project No:** DeSilva Hayward

Location type: monitoring well, supply well, soil boring, other_____

Sampling Method: Low flow

Weather (Skies, temperature, wind): Blue, 16°C, 2knts.

Well Diameter (in) 0.75.

Well Elevation (ft) 44.98

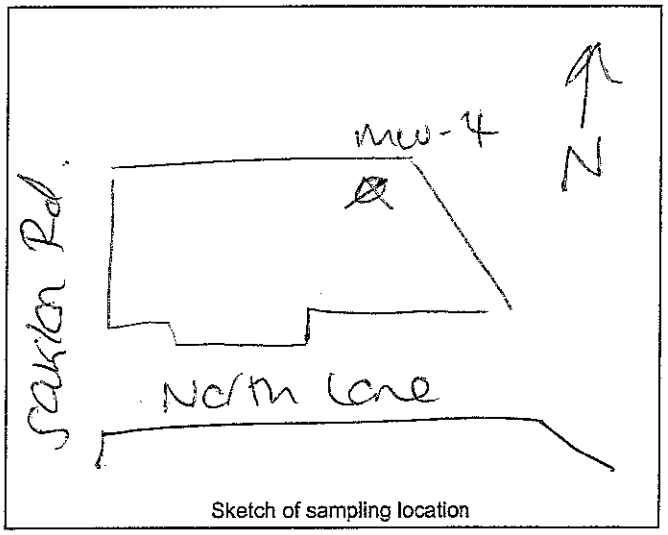
Well Casing Depth (ft) 26.55

Depth to Water (ft)) 16.66 (12.43)
16.82 (14.39

Standing Water Volume (gal)_____

Purge Rate: (gal/min)_____

Purge Method: Low flow



Sketch of sampling location

Observations/Comments:_____

Measurements of Water Levels and Field Parameters:

Time (24 hr)	Depth to Water (ft)	Purge Volume (gal)	Temp (°C)	PH (S.U.)	E. Cond. (µS/cm)	Turbidity (NTUs)	Dissolved Oxygen (%)	Dissolved Oxygen (mg/L)	Remarks
12:48	16.66	0	14.7	6.99	12.36.	15.5	78.0	8.00	clear.
12 51	16.67	0.05	14.6	~~6.89~~ 6.91	11.86	16.5.	45.6	4.21	
12 54	16.67	0.1	14.6	6.99	11.28	12.38	37.2	3.64	
12 57	16.70	0.15	14.5	6.93	11.19	11.42	36.9	3.60	
12 60	16.72	0.2	14.4	6.97	11.0.	7.87	36.5	3.56	
13:03	16.69	0.25	14.4	6.92	11.06	7.37.	36.2	3.54	clear.

2-inch casing = 0.16 gallons/foot
7.48 gallons per cubic foot

4-inch casing = 0.65 gallons/foot

6 inch casing = 1.47 gallons/foot