

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/17/01

Project Name: JPL Pasadena Well ID: MW-19 Depth (ft.): 242
Project No: 00HW019 Sampling Zone No.: 1
Personnel: MES/JNT Starting Time: 1305 Finishing Time: 1325
Beginning of Session: 14.16
End of Session: 14.14

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks							Water Quality Parameters					
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	14.16	✓	45.14	✓	45.12	✓	✓	14.14	1320	8.53	45	23.6	0.363
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 1L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/19/01

Project Name: JPL Pasadena Well ID: MW-22 Depth (ft.): 467
 Project No: 00HW019 Sampling Zone No.: 4
 Personnel: MCS/SNT Starting Time: 1000 Finishing Time: 1020

Water Pressure Inside MP Casing - Beginning of Session: 81.76
 End of Session: 81.76

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	81.76	✓	126.53	✓	126.55	✓	✓	81.76	1018	8.89	41	21.1	0.310
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Notes: WATER IS CLEAR, NO ODOR

Total Volume: 1 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/19/01

Well ID: MW-22 Depth (ft.): 389

Project Name: JPL Pasadena Sampling Zone No.: 3

Project No: 00HW019 Starting Time: 1025 Finishing Time: 1045

Personnel: MES/JNT

Beginning of Session: 47.75

End of Session: 47.78

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	47.75	✓	100.68	✓	100.70	✓	✓	47.78	1044	8.98	28	21.2	0.489
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Notes: WATER IS CLEAR, VERY SLIGHT ROTTEN EGG ODOR

Total Volume: 1L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/19/01

Well ID: MW-22 Depth (ft.): 329

Project Name: JPL Pasadena Sampling Zone No.: 2

Project No: 00HW019 Starting Time: 1050 Finishing Time: 1120

Personnel: MES/JNT

Water Pressure Inside MP Casing - Beginning of Session: 22.64

End of Session: 22.65

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks							Water Quality Parameters					
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure In MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure In MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	22.64	✓	74.62	✓	74.64	✓	✓	22.65	1115	9.05	26	21.1	0.549
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Notes: WATER IS CLEAR, NO ODOR

Total Volume: 1.5 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
Project No: 00HW019
Personnel: MES/JNT

Well ID: MW-22
Sampling Zone No.: 1
Starting Time: 1125
Depth (ft.): 245
Finishing Time: 1205

Date: 7/19/01

Water Pressure Inside MP Casing -
Beginning of Session: 14.08
End of Session: 14.14

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	14.08	✓	39.80	✓	39.80	✓	✓	14.14	1200	8.44	49	24.7	1.20
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Notes: WATER IS

Total Volume: 1.5 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena

Project No: 00HW019

Personnel: HES/JNT

Well ID: MW-11

Depth (ft.): 524

Sampling Zone No.: 4

Starting Time: 10:40-949

Finishing Time: 953

Beginning of Session:

123.21

Water Pressure Inside MP Casing -

End of Session:

123.41

Date: 7/20/01

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	123.21	✓	165.13	✓	164.76	✓	✓	123.41	1005	9.36	19	20.3	0.280
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Notes:

WATER IS CLEAR, NO ODOR

Total Volume: 1 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/20/01

Project Name: JPL Pasadena
Project No: 00HW019
Personnel: MES/JNT

Well ID: MW-11 Depth (ft.): 429
Sampling Zone No.: 3
Starting Time: 1015 Finishing Time: 1043

Beginning of Session: 83.50
End of Session: 83.53

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	83.50	✓	127.30	✓	127.24	✓	✓	83.53	1053	9.16	28	20.1	0.368
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 1.5 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/20/01

Project Name: JPL Pasadena Well ID: MW-11 Depth (ft.): 259
 Project No: 00HW019 Sampling Zone No.: 2
 Personnel: HES/SNT Starting Time: 1101 Finishing Time: 1107
 Water Pressure Inside MP Casing - Beginning of Session: 14.14
 End of Session: 14.19

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	14.14	✓	60.42	✓	✓	✓	14.19	1116	8.98	42 0.408 7/20/01 <i>[Signature]</i>	21.2	0.408	
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Notes: WATER IS CLEAR, NO ODOR

Total Volume: 1.5L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/20/01

Project Name: JPL Pasadena Well ID: MW-11 Depth (ft.): 149
 Project No.: 00HW019 Sampling Zone No.: 1
 Personnel: MES/JNT Starting Time: 1123 Finishing Time: 1133
 Beginning of Session: 14.09
 End of Session: 14.12

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks							Water Quality Parameters					
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	✓	14.09	✓	27.68	✓	27.60	✓	✓	14.12	1142	8.95	0	23.4	0.494
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Notes:

WATER IS CLEAR, NO OORTotal Volume: 1.5L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/25/01

Project Name: JPL Pasadena Well ID: MW-12 Depth (ft.): 548
Project No: 00HW019 Sampling Zone No.: 5
Personnel: MCS/JNT Starting Time: 1050 Finishing Time: 1112
Beginning of Session: 134.40
End of Session: 134.41

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	131.40	✓	162.88	✓	162.76	✓	✓	134.41	1143	8.23	58	20.5	0.386
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Notes:

WATER IS CLEAR NO ODRTotal Volume: 1L

Project Name: JPL Pasadena
Project No: 00HW019
Personnel: MES/ANT

Well ID: MW-12 Depth (ft.): 436
Sampling Zone No.: 4
Starting Time: 1130 Finishing Time: 1143

Date: 7/25/01

Beginning of Session: 85.65
End of Session: 85.73

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks							Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	85.65	/	140.95	✓	140.90	✓	✓	85.73	1151	8.92	2	20.5	0.424
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Notes:

WATER IS CLEAR, NO ODOR

Total Volume: 1 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/25/01

Well ID: MW-12 Depth (ft.): 323

Project Name: JPL Pasadena Sampling Zone No.: 3

Project No: 00HW019 Starting Time: 1203 Finishing Time: 1208

Personnel: MCS/JNT

Beginning of Session: 37.48

End of Session: 37.52

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	37.48	✓	97.95	✓	97.96	✓	✓	37.52	1216	9.07	85	20.8	0.446
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Notes: WATER IS CLEAR, NO ODOR

Total Volume: 1.5L

Date: 7/25/01

Project Name: JPL Pasadena Well ID: MW-12 Depth (ft.): 243
Project No: 00HW019 Sampling Zone No.: 2
Personnel: MES/JNT Starting Time: 1226 Finishing Time: 1238

Water Pressure Inside MP Casing - Beginning of Session: 14.12
End of Session: 14.15

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	14.12	✓	64.85	✓	64.85	✓	✓	14.15	1245	8.68	3	23.9	0.440
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Notes: WATER IS CLEAR, NO ODOR

Total Volume: 1.5 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/25/01Well ID: MW-12 Depth (ft.): 140Project Name: JPL Pasadena Sampling Zone No.: 1Project No: 00HW019Personnel: MES/SNTStarting Time: 12:55 Finishing Time: 13:11

Beginning of Session:

14:05

End of Session:

14:09

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	1405	✓	26.08	✓	26.07	✓	✓	14.09	1318	8.98	27	24.8	0.410
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 1.5L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/26/06

Project Name: JPL Pasadena Well ID: MW-24 Depth (ft.): 554
Project No: 00HW019 Sampling Zone No.: 4
Personnel: MES/SPT Starting Time: 1100 Finishing Time: 1135

Water Pressure Inside MP Casing - Beginning of Session: 116.10
End of Session: 116.31

Run No.	Surface Function Checks				Position Sampler	Sample Collection Checks						Water Quality Parameters							
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container		Valve Closed	Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	116.10	✓	146.02	✓	146.05	✓	✓	116.31	1150	8.24	26	23.7	0.322
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Notes: WATER IS CLEAR, NO ODOR

Total Volume: 1.5 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: MES/NT

Well ID: MW-24 Depth (ft.): 435
 Sampling Zone No.: 3
 Starting Time: 1150 Finishing Time: 1230

Date: 7/26/01

Beginning of Session:
 End of Session:

64.53
63.99

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	64.53	✓	105.30	✓	105.32	✓	✓	64.56	1220	8.79	6	24.1	0.424
2	✓	✓	✓	✓	✓	✓	63.98	✓	105.29	✓	105.30	✓	✓	63.99					
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 1.54726/012.75L 7m

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: RES/JSNT

Well ID: MW-24 Depth (ft.): 373

Sampling Zone No.: 2
 Starting Time: 1245 Finishing Time: 1318

Date: 7/26/01

Beginning of Session:

37.49

Water Pressure Inside MP Casing -

End of Session:

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	37.49	✓	79.92	✓	79.93	✓	✓	37.52	1305	9.30	2.6	25.0	0.417
2	✓	✓	✓	✓	✓	✓	36.94	✓	79.91	✓	79.90	✓	✓	36.95					
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 4.5L2.75L7/26/01

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena

Project No: 00HW019

Personnel: MES/ JMTWell ID: NW-24Depth (ft.): 279Sampling Zone No.: 1Starting Time: 1339Finishing Time: 1345Date: 7/26/01Beginning of Session: 14.07End of Session: 14.10

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	14.07	✓	42.91	✓	42.89	✓	✓	14.10	1357	8.82	46	28.9	0.401
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 1.5 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/27/01Well ID: NW-4 Depth (ft.): 513Sampling Zone No.: 5Starting Time: 0958 Finishing Time: 1004Beginning of Session: 138.13End of Session: 138.20

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	138.13	✓	18.19	✓	18.27	✓	✓	138.20	10.12	8.83	54	22.9	0.487
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 1.25L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
Project No: 00HW019
Personnel: HES/SNT

Well ID: MW-4 Depth (ft.): 392

Sampling Zone No.: 4

Starting Time: 1019

Finishing Time: 1025

Beginning of Session: 85.43

End of Session: 85.48

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks							Water Quality Parameters					
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	85.43	✓	129.00	✓	129.03	✓	✓	85.68	1030	8.82	46	28.9	0.401
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Notes:

WATER IS CLEAR, NO ODOR

Total Volume: 1.25 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena

Project No: 00HW019

Personnel: MEG/SMTWell ID: MW-4Sampling Zone No.: 3Starting Time: 1043Depth (ft.): 322Finishing Time: 1047Date: 7/27/01Beginning of Session: 55.65End of Session: 55.66

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	55.65	✓	104.93	✓	104.94	✓	✓	55.66	1057	9.03	69	21.6	0.434
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Notes:

WATER IS SLIGHTLY CLOUDY TURBID YELLOWNO ODORTotal Volume: 1.5L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/27/01Well ID: MW-4 Depth (ft.): 240Project Name: JPL Pasadena Sampling Zone No.: 2Project No.: 00HW019Personnel: HKS/SNTStarting Time: 1108 Finishing Time: 1112Beginning of Session: 70.3 19.89 7/27/01End of Session: 19.90

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	19.89	✓	70.30	✓	70.30	✓	✓	19.90	1118	8.23	45	21.7	0.403
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 1.5L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena

Project No: 00HW019

Personnel: MES/INTWell ID: MW-4Sampling Zone No.: 1Starting Time: 124Depth (ft.): 150Finishing Time: 1133Date: 7/27/06

Beginning of Session:

14.12

End of Session:

14.13

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	14.12	✓	36.65	✓	36.62	✓	✓	14.13	1140	8.48	53	24.6	0.410
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 1.5L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/30/01

Project Name: JPL Pasadena Well ID: MW-14 Depth (ft.): 540
 Project No.: 00HW019 Sampling Zone No.: 5
 Personnel: MES/JNT Starting Time: 1115 Finishing Time: 1130

Water Pressure Inside MP Casing - Beginning of Session: 141.50
 End of Session: 141.50

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	141.50	✓	168.32	✓	168.32	✓	✓	141.50	1147	9.69	2.5	21.3	0.284
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 1.0 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena

Project No: 00HW019

Personnel: MES/JNT

Well ID: MW-14

Sampling Zone No.: 4

Starting Time: 1155

Depth (ft.): 456

Finishing Time: 1203

Date: 7/30/01

Beginning of Session: 10588

End of Session: 10591

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure In MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure In MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	105.88	✓	132.42	✓	132.44	✓	✓	105.91	1212	9.08	46	21.1	0.538
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Notes:

WATER IS CLEAR, NO DDAR.

Total Volume: 1.5 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena

Project No: 00HW019

Personnel: MES/JNTWell ID: MW-14Sampling Zone No.: 3Starting Time: 1227Depth (ft.): 382Finishing Time: +233-7/30/01
1251 JNDate: 7/30/01Beginning of Session: 73.60End of Session: 73.65

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	73.60	✓	100.40	✓	100.43	✓	✓	73.65	1241	8.94	3	20.8	0.918
2	✓	✓	✓	✓	✓	✓	73.07	✓	100.42	✓	100.44	✓	✓	73.10	—	—	—	—	—
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Notes:

WATER IS CLEAR, NO ODDR

Total Volume:

2.75 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena

Project No: 00HW019

Personnel: MEG/ANTWell ID: MW-14 Depth (ft.): 277Sampling Zone No.: 2Starting Time: 1306 Finishing Time: 1332Date: 7/30/01Beginning of Session: 27.81End of Session: 27.33

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks							Water Quality Parameters					
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	27.81	✓	55.24	✓	55.24	✓	✓	27.85	1322	8.50	148	22.2	1.27
2	✓	✓	✓	✓	✓	✓	27.30	✓	55.22	✓	55.24	✓	✓	27.33	—	—	—	—	—
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Notes:

WATER IS CLEAR, NO ODORTotal Volume: 2.75L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
 Project No: 00HW019
 Personnel: MES/JWT

Well ID: MW-14
 Sampling Zone No.: 1
 Starting Time: 1350

Depth (ft.): 207
 Finishing Time: 1400

Date: 7/30/01

Beginning of Session: 14.07
 End of Session: 14.08

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	14.07	✓	25.53	✓	25.54	✓	✓	14.08	1409	7.96	430	26.3	1.25
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Notes:

Water is clear, no odorTotal Volume: 1.5 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
Project No: 00HW019
Personnel: MES/SPT

Well ID: MW-23 Depth (ft.): 542
Sampling Zone No.: 5
Starting Time: 8:10 Finishing Time: 0847

Date: 7/31/01

Water Pressure Inside MP Casing -
Beginning of Session: 161.12
End of Session: 160.19

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	161.12	✓	182.65	✓	182.59	✓	✓	160.19	854	10.97	83	20.2	0.433
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Notes: WATER IS CLEAR, NO ODORTotal Volume: 0.75 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena

Project No: 00HW019

Personnel: MES/SNTWell ID: MW-23Sampling Zone No.: 4Starting Time: 0904Depth (ft.): 445Finishing Time: 0911Date: 7/31/01Beginning of Session: 119.02End of Session: 119.05

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks							Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	119.02	✓	140.79	✓	140.73	✓	✓	119.05	917	9.66	18	20.1	0.346
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Notes:

WATER IS CLEAR, NO ODDRTotal Volume: 1.25 L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/31/01

Project Name: JPL Pasadena Well ID: MW-23 Depth (ft.): 319
 Project No: 00HW019 Sampling Zone No.: 3
 Personnel: MSJ/SJT Starting Time: 0927 Finishing Time: 937
 Beginning of Session: 64.75
 End of Session: 64.76

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	64.75	✓	9586	✓	9587	✓	✓	64.76	946	9.66	18	20.6	0.346	
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Notes:

WATER IS CLEAR, NO ODOR.Total Volume: 1.5L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Date: 7/31/01Project Name: JPL PasadenaProject No.: 00HW019Personnel: MES/JNTWell ID: MW-23Depth (ft.): 254Sampling Zone No.: 2Starting Time: 0950Finishing Time: 0958

Beginning of Session:

36.43

End of Session:

36.42

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)	Conductivity (mmhos)
1	✓	✓	✓	✓	✓	34.02	✓	68.00	✓	68.02	✓	✓	36.42	1006	8.94	5	20.3	0.901	
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Notes:

WATER IS CLEAR, NO ODO

Total Volume:

1.5L

Groundwater Sampling

Field Data Sheet for Multi-Port Well

Project Name: JPL Pasadena
Project No: 00HW019
Personnel: MS/SJT

Well ID: MW-23 Depth (ft.): 174
Sampling Zone No.: 1
Starting Time: 1015 Finishing Time: 1022

Date: 7/3/01

Beginning of Session: 14.11
End of Session: 14.15

Water Pressure Inside MP Casing -

Run No.	Surface Function Checks					Position Sampler	Sample Collection Checks								Water Quality Parameters				
	Shoe Out	Vacuum Check Valve Closed	Valve Open	Evacuate Container	Valve Closed		Deactivate Set Arm Locate Port	Pressure in MP	Shoe out	Zone Pressure	Open Valve	Zone Pressure	Close Valve	Shoe In	Pressure in MP	Time	pH	Turbidity (NTU)	Temperature (°C)
1	✓	✓	✓	✓	✓	✓	Pressure in MP 1015 73.0	✓	36.11	✓	36.11	✓	✓	14.15	1031	8.63	39	22.2	0.812
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Notes: WATER IS CLEAR, NO ODORTotal Volume: 1.5L