Shaw Environmental, Inc.
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Shaw Environmental, Inc.

Shaw Project No. 124328

August 29, 2007

Ms. Marilyn Long, PG
Texas Commission on Environmental Quality
Remediation Division, State Lead Section
12100 Park 35 Circle, Mail Code 143
Austin, Texas 78753

Re: Deep Well Groundwater Gauging and Rainfall Data
Jones Road Superfund Site, Site No. SUP075
Houston, Texas
TCEQ SESC Contract No. 582-5-49208, Work Order No. 153-0048

Dear Ms. Long:

Shaw Environmental, Inc. (Shaw) is pleased to present the Texas Commission on Environmental Quality (TCEQ) this report summarizing deep well gauging and rainfall data collection for the Jones Road Superfund Site (Site). As per the scope of the work order, Shaw performed manual gauging of 10 deep wells from March 2007 through August 2007 twice a month. The data was summarized in a cumulative gauging table, and a potentiometric map was prepared for each gauging event. For the most part groundwater elevations remained consistent with slight seasonal variations with the exception of two wells during two events. On March 16, 2007 MW-10 had an elevation of 149.09. This was a rise from144.07 to 149.09 and lowering back to 144.17 within a one month period. On July 20, 2007 MW-14 had an elevation of 132.09. This was a lowering from 137.16 to 132.09 and rising back to 137.29.

Additionally, rainfall data information was collected from rainfall gauges in the Jones Road area and plotted on a chart. Gauge 555, located where White Oak Bayou crosses Jones Road (1.5 miles south of the Site), was used to create a chart of rainfall to compare to a chart indicating the water level elevations from the 10 deep wells. March rainfall data was not available for gauges in the Jones Road area however; general rainfall for Texas was lower in March than April. For gauge 555, April through May had a significant raise in rainfall with a slight taper through June and a decline in rainfall through July. General rainfall for Texas was increasing from June to July. August rainfall data is not yet available. As to date, there does not seem to be a correlation between the rainfall and deep groundwater elevation. This is evident in the decreased deep groundwater elevation from March through August as compared to the increased rainfall.

If you have any questions, please contact Russell Perry at (713) 996-4571.

Sincerely,
Shaw Environmental, Inc.

Russell Perry, P.G.
Project Manager

882008

TABLE 1
Summary of Fluid Level Measurements - Monitor Wells
Jones Road Groundwater Plume
TCEQ Superfund Site
Houston, Texas

Well ID	Date	Screened Interval	TOC Elevation	Water Level Depth in Feet	Corrected* Water Level Elevation
MW-1	08/0403	Unknown	124.08	27.60	96.48
	11/06/03	Unknown	124.08	25.10	98.98
	02/12/04	Unknown	124.08	19.97	104.11
	05/17/04	Unknown	124.08	19.36	104.72
	08/23/04	Unknown	124.08	24.37	99.71
	11/02/04	Unknown	124.08	25.33	98.75
	02/03/05	Unknown	124.08	22.59	101.49
	05/02/05	Unknown	124.08	24.07	100.01
	08/02/05	Unknown	124.08	23.62	100.46
	11/14/05	Unknown	124.08	26.67	97.41
	02/08/06	Unknown	124.08	25.45	98.63
MW-2	08/0403	Unknown	124.40	25.22	99.18
	11/06/03	Unknown	124.40	23.41	100.99
	02/12/04	Unknown	124.40	16.78	107.62
	05/17/04	Unknown	124.40	15.90	108.50
	08/23/04	Unknown	124.40	22.39	102.01
	11/02/04	Unknown	124.40	23.42	100.98
	02/03/05	Unknown	124.40	19.58	104.82
	05/02/05	Unknown	124.40	22.24	102.16
	08/02/05	Unknown	124.40	23.60	100.80
	11/14/05	Unknown	124.40	25.22	99.18
	02/08/06	Unknown	124.40	23.79	100.61
MW-3	08/0403	Unknown	123.83	24.26	99.57
	11/06/03	Unknown	123.83	22.15	101.68
	02/12/04	Unknown	123.83	15.03	108.80
	05/17/04	Unknown	123.83	13.98	109.85
	08/23/04	Unknown	123.83	21.00	102.83
	11/02/04	Unknown	123.83	21.97	101.86
	02/03/05	Unknown	123.83	17.49	106.34
	05/02/05	Unknown	123.83	20.69	103.14
	08/02/05	Unknown	123.83	22.55	101.28
	11/14/05	Unknown	123.83	24.18	99.65
	02/08/06	Unknown	123.83	22.50	101.33
MW-4	08/0403	Unknown	124.18	23.96	100.22
	11/06/03	Unknown	124.18	21.80	102.38
	02/12/04	Unknown	124.18	13.80	110.38
	05/17/04	Unknown	124.18	13.26	110.92
	08/23/04	Unknown	124.18	20.71	103.47
	11/02/04	Unknown	124.18	21.79	102.39
	02/03/05	Unknown	124.18	16.44	107.74
	05/02/05	Unknown	124.18	20.30	103.88
	08/02/05	Unknown	124.18	22.50	101.68
	11/14/05	Unknown	124.18	23.83	100.35
	02/08/06	Unknown	124.18	22.09	102.09

TABLE 1
Summary of Fluid Level Measurements - Monitor Wells
Jones Road Groundwater Plume
TCEQ Superfund Site
Houston, Texas

Well ID	Date	Screened Interval	TOC Elevation	Water Level Depth in Feet	Corrected* Water Level Elevation
MW-5	08/0403	Unknown	124.58	24.86	99.72
	11/06/03	Unknown	124.58	22.38	102.20
	02/12/04	Unknown	124.58	14.02	110.56
	05/17/04	Unknown	124.58	13.59	110.99
	08/23/04	Unknown	124.58	21.49	103.09
	11/02/04	Unknown	124.58	22.25	102.33
	02/03/05	Unknown	124.58	17.11	107.47
	05/02/05	Unknown	124.58	21.10	103.48
	08/02/05	Unknown	124.58	23.01	101.57
	11/14/05	Unknown	124.58	24.36	100.22
	02/08/06	Unknown	124.58	22.73	101.85
MW-6	08/0403	Unknown	124.09	34.90	89.19
	11/06/03	Unknown	124.09	34.08	90.01
	02/12/04	Unknown	124.09	30.51	93.58
	05/17/04	Unknown	124.09	29.53	94.56
	08/23/04	Unknown	124.09	33.05	91.04
	11/02/04	Unknown	124.09	34.75	89.34
	02/03/05	Unknown	124.09	32.93	91.16
	05/02/05	Unknown	124.09	32.42	91.67
	08/02/05	Unknown	124.09	34.02	90.07
	11/14/05	Unknown	124.09	35.03	89.06
	02/08/06	Unknown	124.09	34.83	89.26
MW-7	11/06/03	20 - 35	124.16	29.49	94.67
	02/12/04	20 - 35	124.16	26.64	97.52
	05/17/04	20 - 35	124.16	25.29	98.87
	08/23/04	20 - 35	124.16	28.67	95.49
	11/02/04	20 - 35	124.16	30.27	93.89
	02/03/05	20 - 35	124.16	28.88	95.28
	05/02/05	20 - 35	124.16	28.31	95.85
	08/02/05	20 - 35	124.16	28.68	95.48
	11/14/05	20 - 35	124.16	31.30	92.86
	02/08/06	20 - 35	124.16	29.75	94.41
MW-8	11/06/03	20 - 36	124.82	20.31	104.51
	02/12/04	20 - 36	124.82	12.99	111.83
	05/17/04	20 - 36	124.82	11.85	112.97
	08/23/04	20 - 36	124.82	19.12	105.70
	11/02/04	20 - 36	124.82	19.80	105.02
	02/03/05	20 - 36	124.82	14.93	109.89
	05/02/05	20 - 36	124.82	18.71	106.11
	08/02/05	20 - 36	124.82	20.52	104.30
	11/14/05	20 - 36	124.82	21.90	102.92
	02/08/06	20 - 36	124.82	20.47	104.35

TABLE 1
Summary of Fluid Level Measurements - Monitor Wells
Jones Road Groundwater Plume
TCEQ Superfund Site
Houston, Texas

Well ID	Date	Screened Interval	TOC Elevation	Water Level Depth in Feet	Corrected* Water Level Elevation
MW-9	11/06/03	20 - 35	127.23	26.91	100.32
	02/12/04	20 - 35	127.23	20.28	106.95
	05/17/04	20 - 35	127.23	18.68	108.55
	08/23/04	20 - 35	127.23	26.09	101.14
	11/02/04	20 - 35	127.23	27.38	99.85
	02/03/05	20 - 35	127.23	23.12	104.11
	05/02/05	20 - 35	127.23	25.59	101.64
	08/02/05	20 - 35	127.23	26.74	100.49
	11/14/05	20 - 35	127.23	28.58	98.65
	02/08/06	20 - 35	127.23	27.30	99.93
MW-10	08/05/05	270 - 290	122.89	148.91	-26.02
	11/07/05	270 - 290	122.89	149.64	-26.75
	02/09/06	270 - 290	122.89	147.52	-24.63
	03/01/07	270 - 290	122.89	144.07	-21.18
	03/16/07	270 - 290	122.89	149.09	-26.20
	03/30/07	270 - 290	122.89	144.17	-21.28
	04/13/07	270 - 290	122.89	144.00	-21.11
	04/27/07	270 - 290	122.89	143.66	-20.77
	05/11/07	270 - 290	122.89	143.26	-20.37
	05/25/07	270 - 290	122.89	143.46	-20.57
	06/08/07	270 - 290	122.89	143.40	-20.51
	06/25/07	270 - 290	122.89	143.33	-20.44
	07/05/07	270 - 290	122.89	143.20	-20.31
	07/20/07	270 - 290	122.89	143.22	-20.33
	08/03/07	270 - 290	122.89	143.09	-20.20
MW-11R	11/07/05	249 - 269	124.70	150.25	-25.55
	02/09/06	249 - 269	124.70	147.50	-22.80
	03/01/07	249 - 269	124.70	143.84	-19.14
	03/16/07	249 - 269	124.70	143.48	-18.78
	03/30/07	249 - 269	124.70	143.96	-19.26
	04/13/07	249 - 269	124.70	143.56	-18.86
	04/27/07	249 - 269	124.70	143.08	-18.38
	05/11/07	249 - 269	124.70	142.67	-17.97
	05/25/07	249 - 269	124.70	142.83	-18.13
	06/08/07	250 - 269	124.70	143.36	-18.66
	06/25/07	250 - 269	124.70	142.81	-18.11
	07/05/07	250 - 269	124.70	142.67	-17.97
	07/20/07	250 - 269	124.70	142.65	-17.95
	08/03/07	250 - 269	124.70	142.65	-17.95

TABLE 1
Summary of Fluid Level Measurements - Monitor Wells
Jones Road Groundwater Plume
TCEQ Superfund Site
Houston, Texas

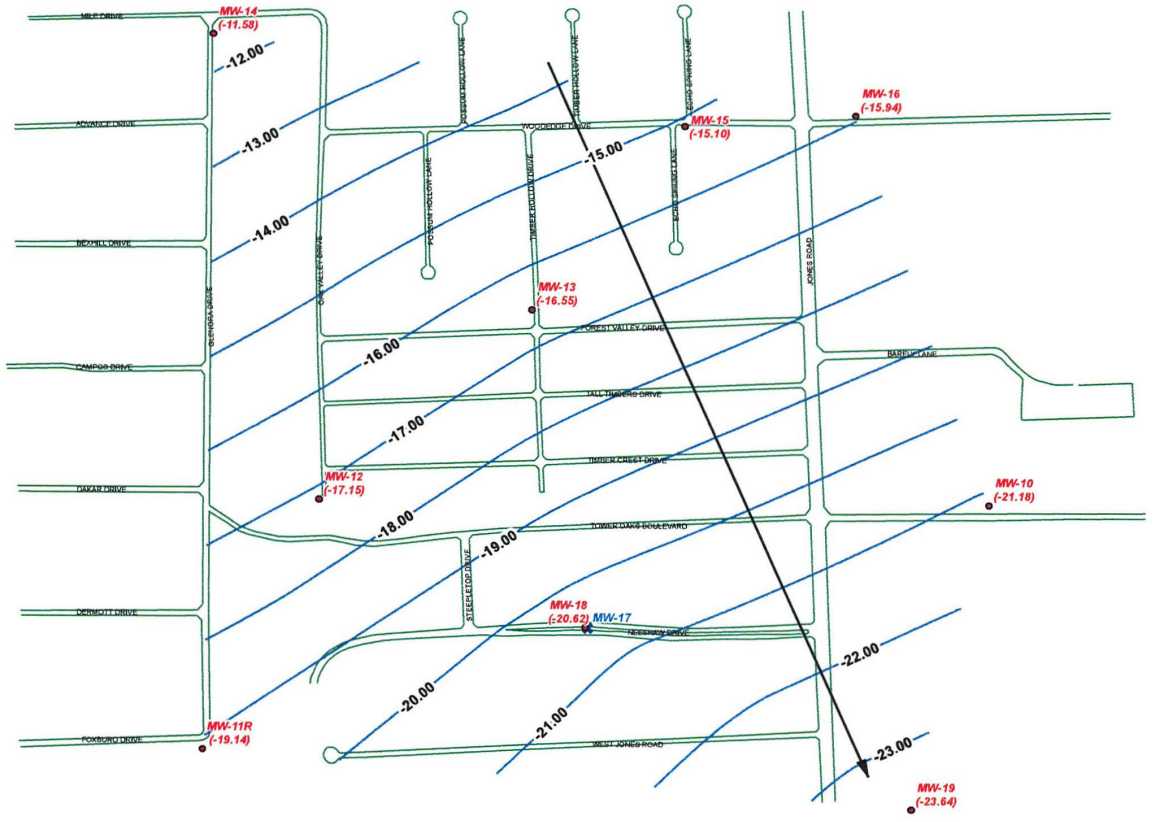
Well ID	Date	Screened Interval	TOC Elevation	Water Level Depth in Feet	Corrected* Water Level Elevation
MW-12	08/04/05	260 - 280	124.74	146.79	-22.05
	11/07/05	260 - 280	124.74	147.22	-22.48
	02/09/06	260 - 280	124.74	145.07	-20.33
	03/01/07	260 - 280	124.74	141.89	-17.15
	03/16/07	260 - 280	124.74	141.86	-17.12
	03/30/07	260 - 280	124.74	142.15	-17.41
	04/13/07	260 - 280	124.74	141.83	-17.09
	04/27/07	260 - 280	124.74	141.31	-16.57
	05/11/07	260 - 280	124.74	141.18	-16.44
	05/25/07	260 - 280	124.74	141.32	-16.58
	06/08/07	260 - 280	124.74	141.51	-16.77
	06/25/07	260 - 280	124.74	141.19	-16.45
	07/05/07	260 - 280	124.74	141.16	-16.42
	07/20/07	260 - 280	124.74	141.10	-16.36
	08/03/07	260 - 280	124.74	140.92	-16.18
MW-13	08/04/05	276 - 296	125.35	145.4	-20.05
	11/07/05	276 - 296	125.35	146.3	-20.95
	02/09/06	276 - 296	125.35	144.79	-19.44
	03/01/07	276 - 296	125.35	141.90	-16.55
	03/16/07	276 - 296	125.35	141.84	-16.49
	03/30/07	276 - 296	125.35	142.05	-16.70
	04/13/07	276 - 296	125.35	141.92	-16.57
	04/27/07	276 - 296	125.35	141.44	-16.09
	05/11/07	276 - 296	125.35	141.14	-15.79
	05/25/07	276 - 296	125.35	141.38	-16.03
	06/08/07	276 - 296	125.35	141.41	-16.06
	06/25/07	276 - 296	125.35	141.19	-15.84
	07/05/07	276 - 296	125.35	141.07	-15.72
	07/20/07	276 - 296	125.35	141.05	-15.70
	08/03/07	276 - 296	125.35	140.98	-15.63
MW-14	08/05/05	260 - 280	126.27	141.92	-15.65
	11/07/05	260 - 280	126.27	142.47	-16.20
	02/09/06	260 - 280	126.27	140.36	-14.09
	03/01/07	260 - 280	126.27	137.85	-11.58
	03/16/07	260 - 280	126.27	137.89	-11.62
	03/30/07	260 - 280	126.27	138.20	-11.93
	04/13/07	260 - 280	126.27	137.87	-11.60
	04/27/07	260 - 280	126.27	137.57	-11.30
	05/11/07	260 - 280	126.27	137.40	-11.13
	05/25/07	260 - 280	126.27	137.57	-11.30
	06/08/07	260 - 280	126.27	137.78	-11.51
	06/25/07	260 - 280	126.27	137.38	-11.11
	07/05/07	260 - 280	126.27	137.16	-10.89
	07/20/07	260 - 280	126.27	132.09	-5.82
	08/03/07	260 - 280	126.27	137.29	-11.02

TABLE 1
Summary of Fluid Level Measurements - Monitor Wells
Jones Road Groundwater Plume
TCEQ Superfund Site
Houston, Texas

Well ID	Date	Screened Interval	TOC Elevation	Water Level Depth in Feet	Corrected* Water Level Elevation
MW-15	08/04/05	274 - 294	124.89	145.28	-20.39
	11/07/05	274 - 294	124.89	144.45	-19.56
	02/09/06	274 - 294	124.89	142.55	-17.66
	03/01/07	274 - 294	124.89	139.99	-15.10
	03/16/07	274 - 294	124.89	139.98	-15.09
	03/30/07	274 - 294	124.89	140.15	-15.26
	04/13/07	274 - 294	124.89	139.76	-14.87
	04/27/07	274 - 294	124.89	139.64	-14.75
	05/11/07	274 - 294	124.89	139.35	-14.46
	05/25/07	274 - 294	124.89	139.56	-14.67
	06/08/07	274 - 294	124.89	139.55	-14.66
	06/25/07	274 - 294	124.89	139.39	-14.50
	07/05/07	274 - 294	124.89	139.27	-14.38
	07/20/07	274 - 294	124.89	139.23	-14.34
	08/03/07	274 - 294	124.89	139.17	-14.28
MW-16	08/04/05	258 - 278	124.98	146.9	-21.92
	11/07/05	258 - 278	124.98	145.24	-20.26
	02/09/06	258 - 278	124.98	143.49	-18.51
	03/01/07	258 - 278	124.98	140.92	-15.94
	03/16/07	258 - 278	124.98	140.95	-15.97
	03/30/07	258 - 278	124.98	141.07	-16.09
	04/13/07	258 - 278	124.98	140.90	-15.92
	04/27/07	258 - 278	124.98	140.57	-15.59
	05/11/07	258 - 278	124.98	140.28	-15.30
	05/25/07	258 - 278	124.98	140.49	-15.51
	06/08/07	258 - 278	124.98	140.48	-15.50
	06/25/07	258 - 278	124.98	140.31	-15.33
	07/05/07	258 - 278	124.98	139.99	-15.01
	07/20/07	258 - 278	124.98	139.95	-14.97
	08/03/07	258 - 278	124.98	140.05	-15.07
MW-17	08/16/05	410 - 430	124.00	250.41	-126.41
	11/07/05	410 - 430	124.00	253.22	-129.22
	02/09/06	410 - 430	124.00	241.45	-117.45
	03/01/07	410 - 430	124.00	225.89	-101.89
	03/16/07	410 - 430	124.00	225.53	-101.53
	03/30/07	410 - 430	124.00	225.08	-101.08
	04/13/07	410 - 430	124.00	225.75	-101.75
	04/27/07	410 - 430	124.00	224.20	-100.20
	05/11/07	410 - 430	124.00	223.84	-99.84
	05/25/07	410 - 430	124.00	224.35	-100.35
	06/08/07	410 - 430	124.00	224.84	-100.84
	06/25/07	410 - 430	124.00	226.81	-102.81
	07/05/07	410 - 430	124.00	226.34	-102.34
	07/20/07	410 - 430	124.00	226.53	-102.53
	08/03/07	410 - 430	124.00	224.80	-100.80

TABLE 1
Summary of Fluid Level Measurements - Monitor Wells
Jones Road Groundwater Plume
TCEQ Superfund Site
Houston, Texas

Well ID	Date	Screened Interval	TOC Elevation	Water Level Depth in Feet	Corrected* Water Level Elevation
MW-18	08/16/05	284 - 297	123.88	148.96	-25.08
	11/07/05	284 - 297	123.88	150.50	-26.62
	02/09/06	284 - 297	123.88	148.02	-24.14
	03/01/07	284 - 297	123.88	144.50	-20.62
	03/16/07	284 - 297	123.88	144.44	-20.56
	03/30/07	284 - 297	123.88	144.63	-20.75
	04/13/07	284 - 297	123.88	144.48	-20.60
	04/27/07	284 - 297	123.88	143.99	-20.11
	05/11/07	284 - 297	123.88	143.62	-19.74
	05/25/07	284 - 297	123.88	143.82	-19.94
	06/08/07	284 - 297	123.88	143.93	-20.05
	06/25/07	284 - 297	123.88	143.72	-19.84
	07/05/07	284 - 297	123.88	143.58	-19.70
	07/20/07	284 - 297	123.88	143.62	-19.74
	08/03/07	284 - 297	123.88	143.49	-19.61
MW-19	11/07/05	240 - 260	123.26	153.18	-29.92
	02/09/06	240 - 260	123.26	151.87	-28.61
	03/01/07	240 - 260	123.26	146.90	-23.64
	03/16/07	240 - 260	123.26	146.90	-23.64
	03/30/07	240 - 260	123.26	147.03	-23.77
	04/13/07	240 - 260	123.26	146.91	-23.65
	04/27/07	240 - 260	123.26	146.93	-23.67
	05/11/07	240 - 260	123.26	145.94	-22.68
	5/25/007	240 - 260	123.26	146.13	-22.87
	06/08/07	240-260	123.26	146.15	-22.89
	06/25/07	240 - 260	123.26	146.00	-22.74
	07/05/07	240 - 260	123.26	145.91	-22.65
	07/20/07	240 - 260	123.26	145.99	-22.73
	08/03/07	240 - 260	123.26	145.87	-22.61



Potentiometric contours were computer generated using ArcGIS 9.2 software.

LEGEND

- Chicot Monitor Well Location
- Evangeline Monitor Well Location
- Potentiometric Contour
- Direction of Groundwater Flow
- Streets

MW-15 Monitor well ID
(-15.10) Depth to groundwater in feet below sea level

NOTES:

1. Well sites were gauged on 03/01/2007.
2. MW-17 is completed in the Evangeline Aquifer and was not included in this potentiometric map.
3. Hydraulic gradient = 0.0026 ft/ft.
4. Datum - Sea level

0 250 500 1,000 Feet

Shaw®

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
12100 PARK 35 CIRCLE, BUILDING D
AUSTIN, TEXAS 78753

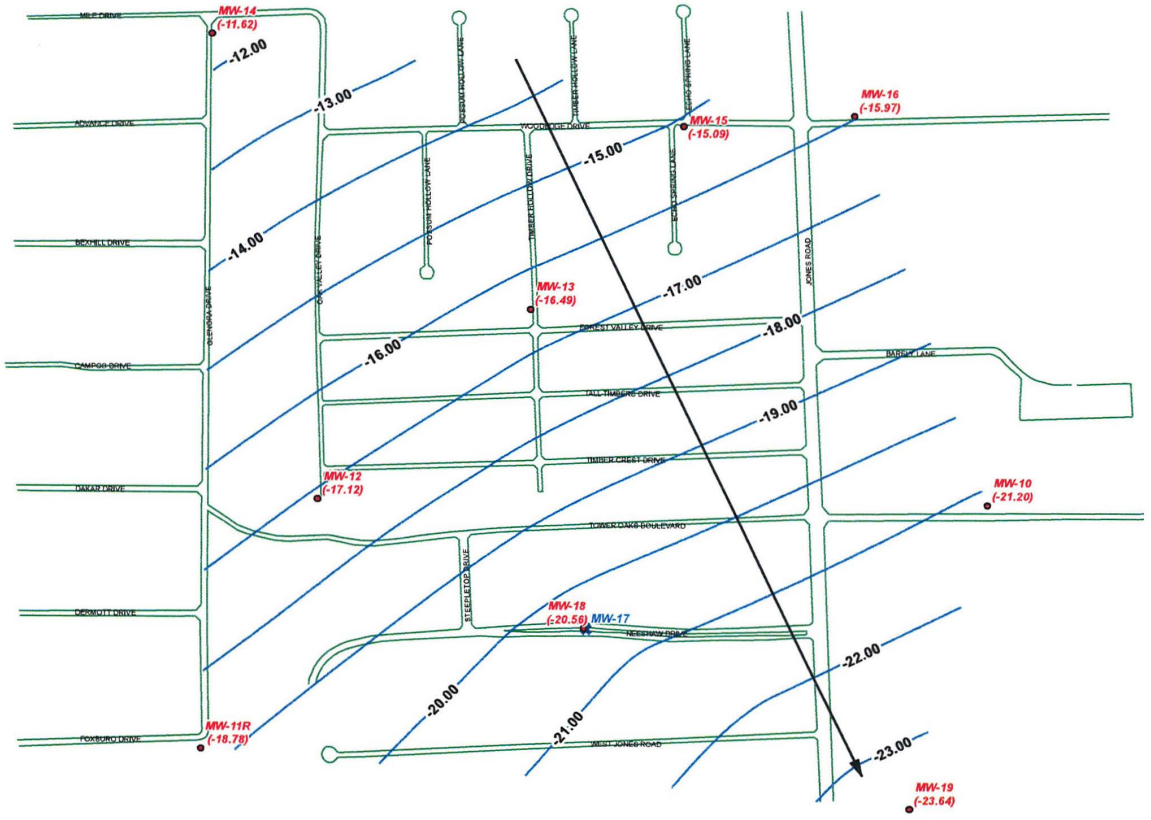
FIGURE 1

JONES ROAD SUPERFUND SITE
POTENTIOMETRIC SURFACE MAP
OF THE CHICOT AQUIFER
MARCH 1, 2007

HOUSTON, TEXAS

OFFICE	DRAWN BY		CHECKED BY		APPROVED BY		FILE PATH
Houston, TX	B. Lu	03/07/07	M. Brown	03/08/07	R. Perry	03/08/07	D:\JonesRd\GIS\workspace\BL\MXD\MAR07_Contours.mxd

Plot Date: 03/07



Potentiometric contours were computer generated using ArcGIS 9.2 software.

LEGEND

- Chicot Monitor Well Location
- Evangeline Monitor Well Location
- Potentiometric Contour
- Direction of Groundwater Flow
- Streets

MW-15 Monitor well ID
(-15.09) Depth to groundwater in feet below sea level

NOTES:

1. Well sites were gauged on 03/16/2007.
2. MW-17 is completed in the Evangeline Aquifer and was not included in this potentiometric map.
3. Hydraulic gradient = 0.0026 ft/ft.
4. Datum - Sea level

0 250 500 1,000 Feet

Shaw®

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
12100 PARK 35 CIRCLE, BUILDING D
AUSTIN, TEXAS 78753

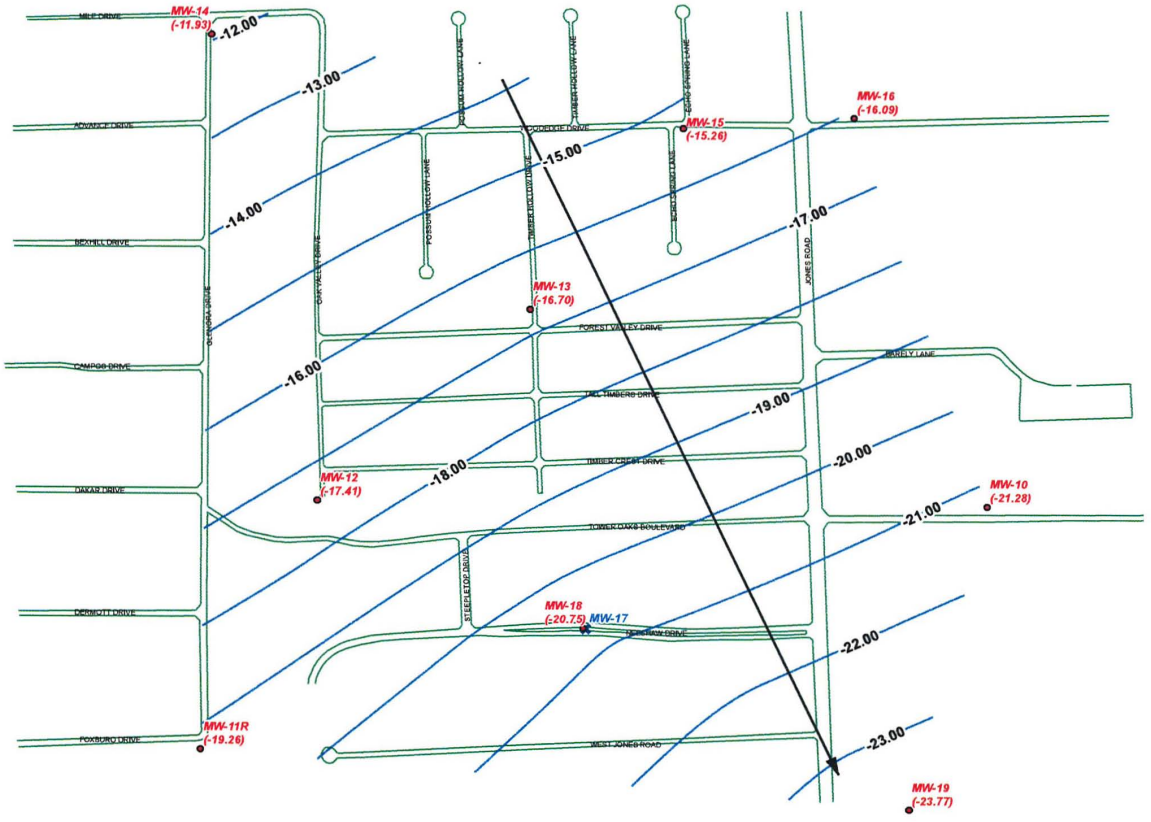
FIGURE 2

JONES ROAD SUPERFUND SITE
POTENTIOMETRIC SURFACE MAP
OF THE CHICOT AQUIFER
MARCH 16, 2007

HOUSTON, TEXAS

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	FILE PATH
Houston, TX	B. Lu 03/26/07	M. Brown 03/26/07	R. Perry 03/26/07	D:\JonesRd\GISworkspace\BLu\MXD\MAR16_07_Contours.mxd

Plot Date: 03/07



Potentiometric contours were computer generated using ArcGIS 9.2 software.

LEGEND

- Chicot Monitor Well Location
- Evangeline Monitor Well Location
- Potentiometric Contour
- Direction of Groundwater Flow
- Streets

MW-15 Monitor well ID
(-15.26) Depth to groundwater in feet below sea level

NOTES:

1. Well sites were gauged on 03/30/2007.
2. MW-17 is completed in the Evangeline Aquifer and was not included in this potentiometric map.
3. Hydraulic gradient = 0.00255 ft/ft.
4. Datum - Sea level

0 250 500 1,000 Feet

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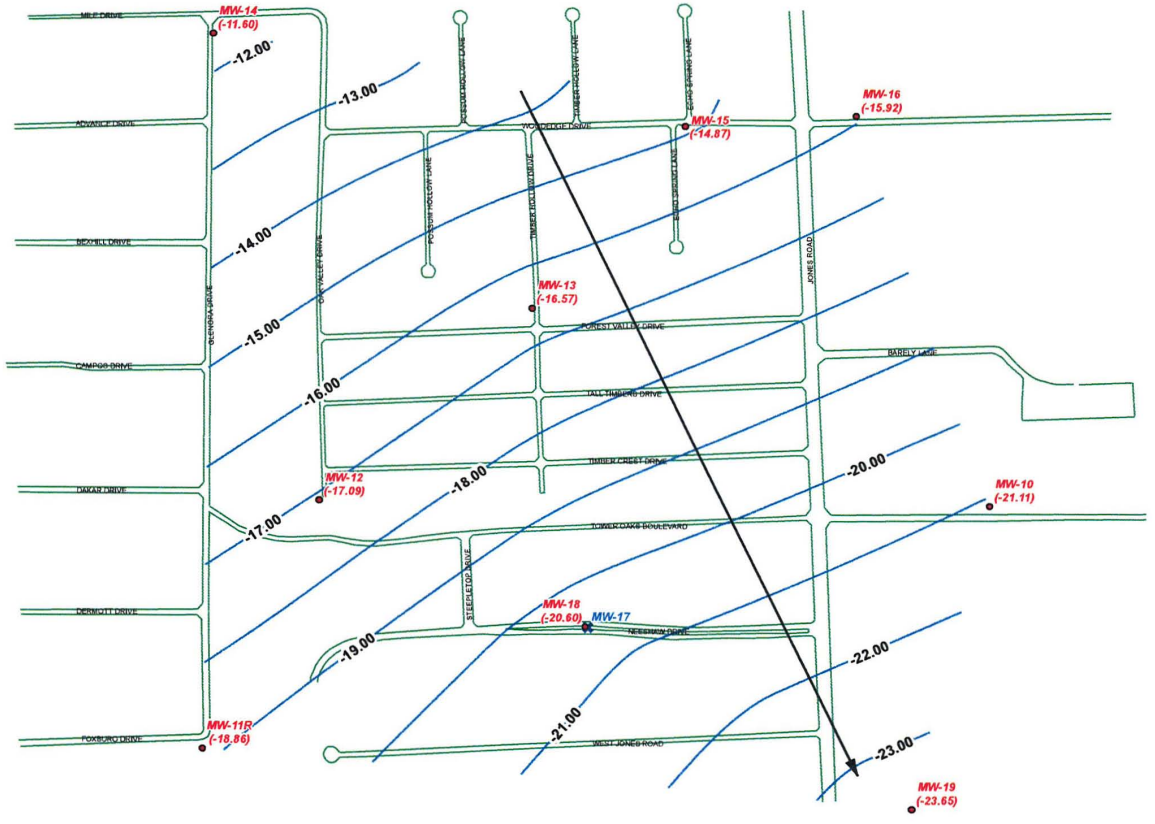
FIGURE 3

JONES ROAD SUPERFUND SITE
POTENTIOMETRIC SURFACE MAP
OF THE CHICOT AQUIFER
MARCH 30, 2007

HOUSTON, TEXAS

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	FILE PATH
Houston, TX	B. Lu 05/29/07			F:\GIS\JonesRd\GIS\Docs\ProjecMaps\Mar30_07_Contours.mxd

Plot Date: 05/07



Potentiometric contours were computer generated using ArcGIS 9.2 software.

LEGEND

- Chicot Monitor Well Location
- Evangeline Monitor Well Location
- Potentiometric Contour
- Direction of Groundwater Flow
- Streets

MW-15 (-14.87) Monitor well ID / Depth to groundwater in feet below sea level

NOTES:

1. Well sites were gauged on 04/13/2007.
2. MW-17 is completed in the Evangeline Aquifer and was not included in this potentiometric map.
3. Hydraulic gradient = 0.00262 ft/ft.
4. Datum - Sea level

0 250 500 1,000 Feet

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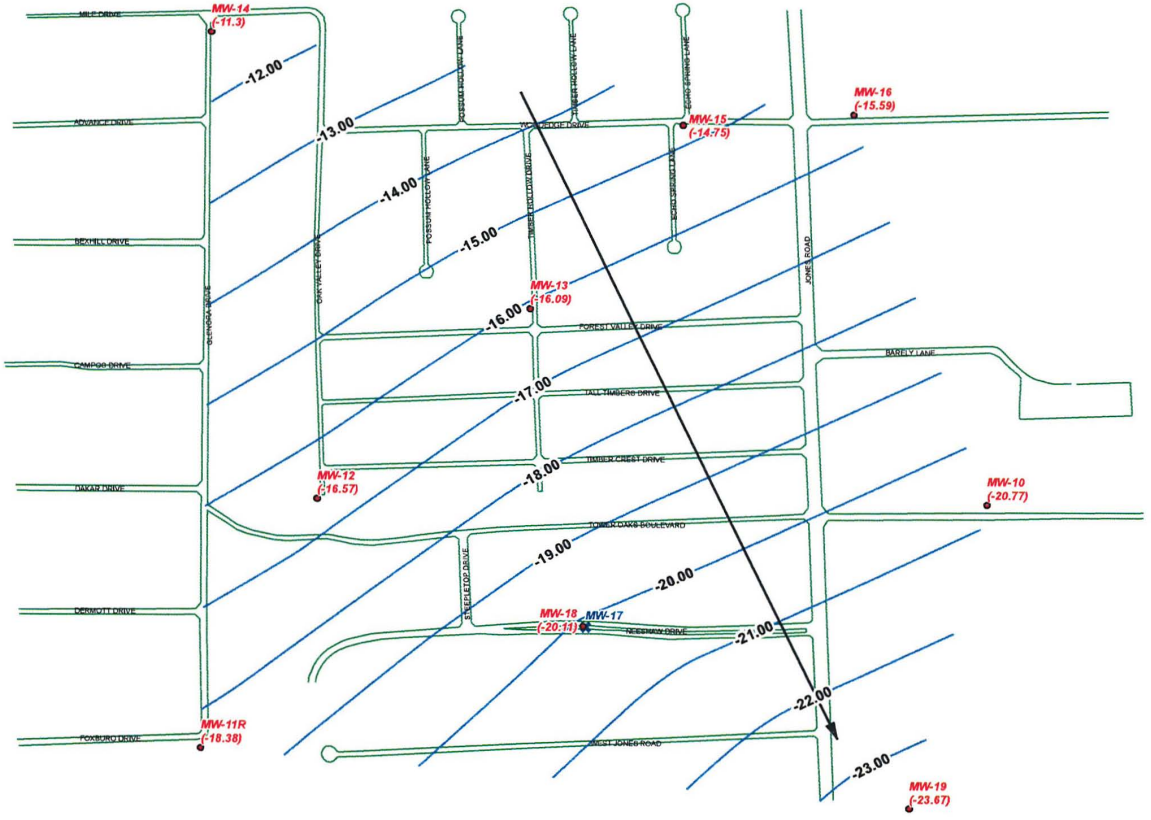
FIGURE 4

JONES ROAD SUPERFUND SITE
POTENTIOMETRIC SURFACE MAP
OF THE CHICOT AQUIFER
APRIL 13, 2007

HOUSTON, TEXAS

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	FILE PATH
Houston, TX	B. Lu 05/29/07			F:\GIS\JonesRd\GIS\Docs\ProjectMaps\Apr13_07_Contours.mxd

Plot Date: 05/07



Potentiometric contours were computer generated using ArcGIS 9.2 software.

LEGEND

- Chicot Monitor Well Location
- Evangeline Monitor Well Location
- Direction of Groundwater Flow
- Potentiometric Contour
- Streets

MW-15 Monitor well ID
(-14.75) Depth to groundwater in feet below sea level

NOTES:

1. Well sites were gauged on 04/27/2007.
2. MW-17 is completed in the Evangeline Aquifer and was not included in this potentiometric map.
3. Hydraulic gradient = 0.00267 ft/ft.
4. Datum - Sea level

0 250 500 1,000 Feet

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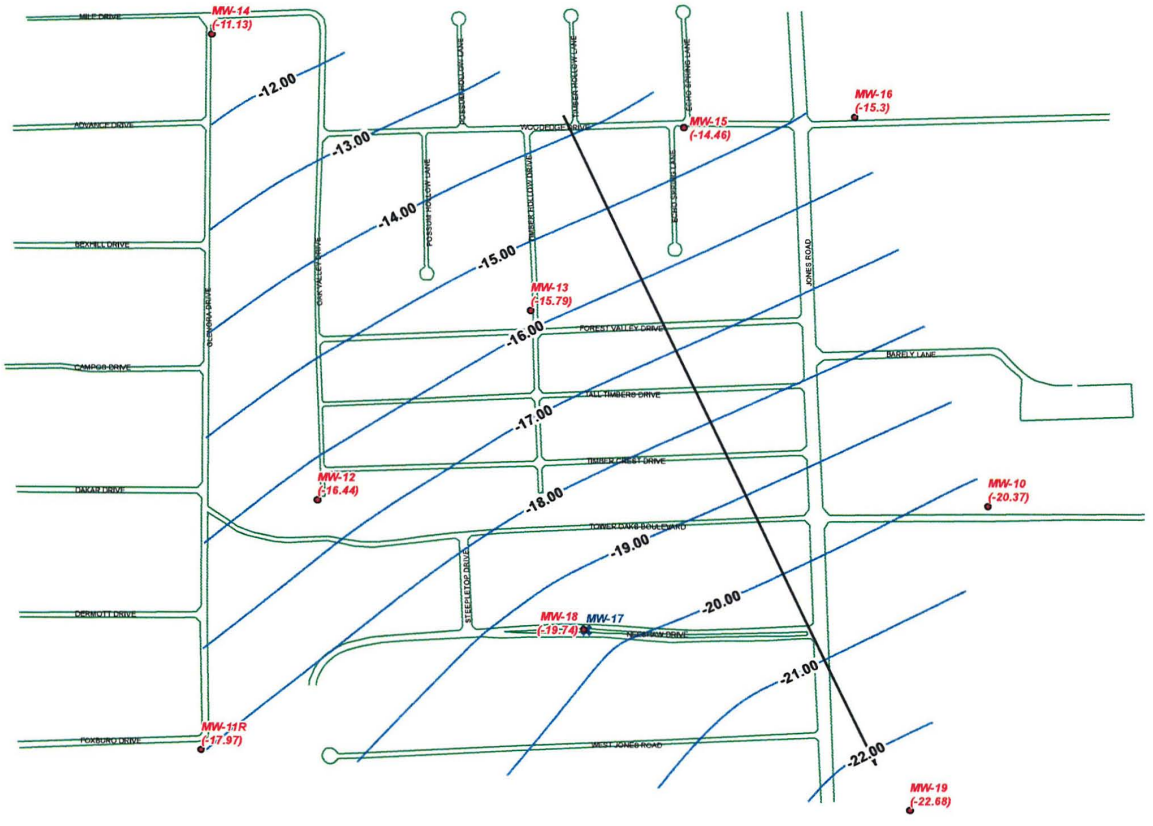
FIGURE 5

JONES ROAD SUPERFUND SITE
POTENTIOMETRIC SURFACE MAP
OF THE CHICOT AQUIFER
APRIL 27, 2007

HOUSTON, TEXAS

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	FILE PATH
Houston, TX	B. Lu 08/27/07			F:\GIS\JonesRd\GISDocs\ProjectMaps\Apr27_07_Contours.mxd

Plot Date: 08/07



Potentiometric contours were computer generated using ArcGIS 9.2 software.

LEGEND

- Chicot Monitor Well Location
- Evangeline Monitor Well Location
- Direction of Groundwater Flow
- Potentiometric Contour
- Streets

MW-15 Monitor well ID
(-14.46) Depth to groundwater in feet below sea level

NOTES:

1. Well sites were gauged on 05/11/2007.
2. MW-17 is completed in the Evangeline Aquifer and was not included in this potentiometric map.
3. Hydraulic gradient = 0.00248 ft/ft.
4. Datum - Sea level

0 250 500 1,000 Feet

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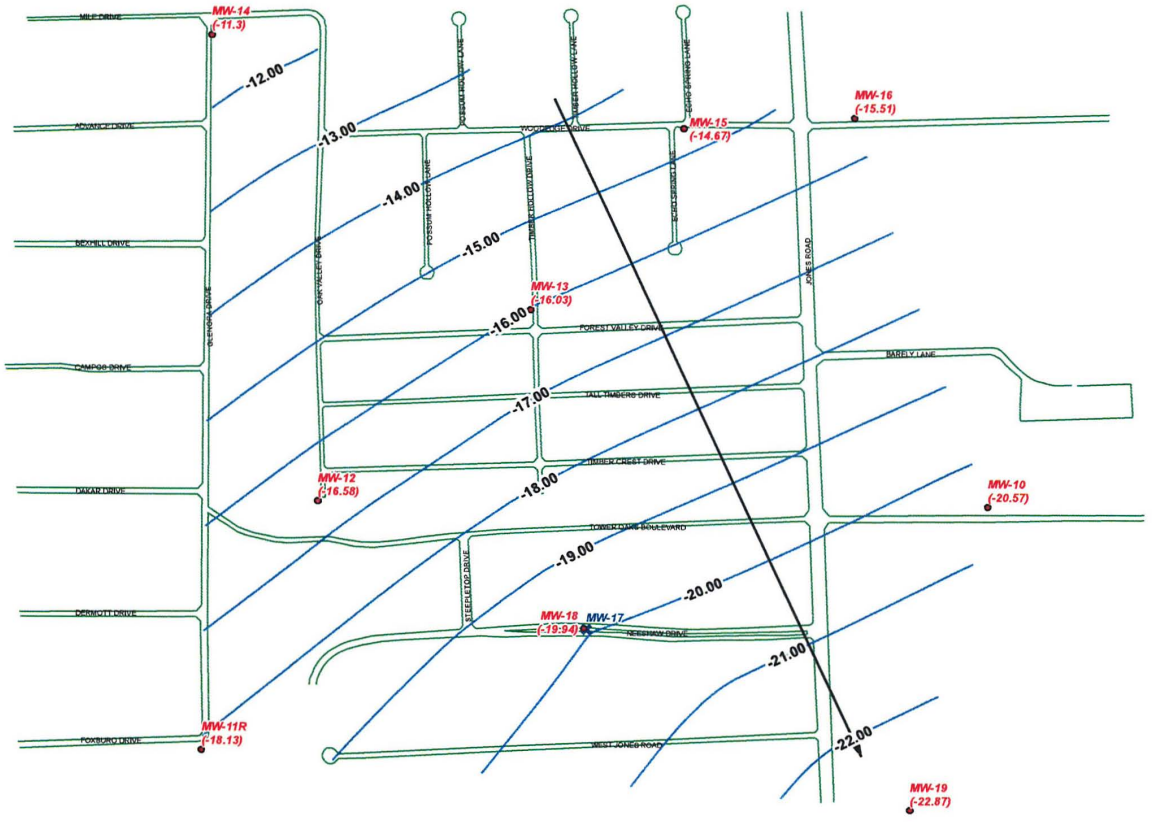
FIGURE 6

JONES ROAD SUPERFUND SITE
POTENTIOMETRIC SURFACE MAP
OF THE CHICOT AQUIFER
MAY 11, 2007

HOUSTON, TEXAS

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	FILE PATH
Houston, TX	B. Lu 08/27/07			F:\GIS\JonesRd\GISDocs\ProjectMaps\May11_07_Contours.mxd

Plot Date: 08/07



Potentiometric contours were computer generated using ArcGIS 9.2 software.

LEGEND

- Chicot Monitor Well Location
- Evangeline Monitor Well Location
- Direction of Groundwater Flow
- Potentiometric Contour
- Streets
- MW-15 (-14.67) Monitor well ID / Depth to groundwater in feet below sea level

NOTES:

1. Well sites were gauged on 05/25/2007.
2. MW-17 is completed in the Evangeline Aquifer and was not included in this potentiometric map.
3. Hydraulic gradient = 0.00249 ft/ft.
4. Datum - Sea level

0 250 500 1,000 Feet

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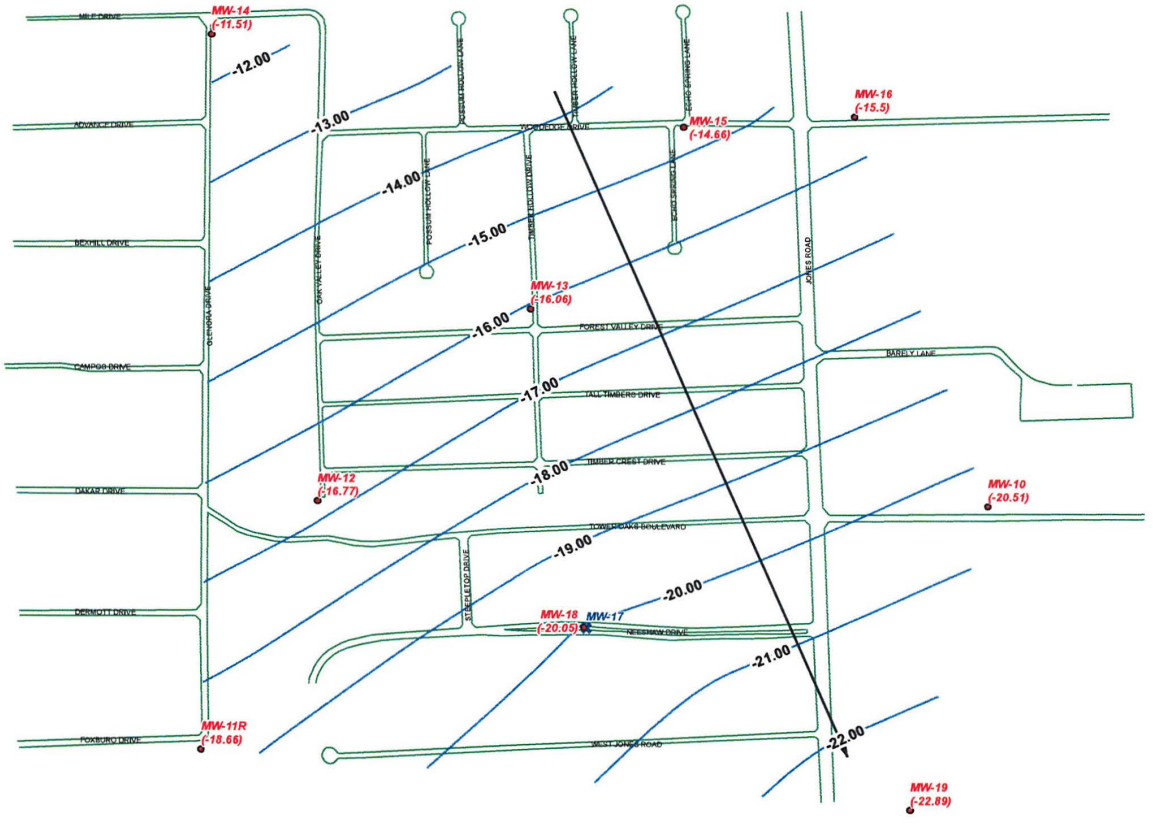
FIGURE 7

JONES ROAD SUPERFUND SITE
POTENTIOMETRIC SURFACE MAP
OF THE CHICOT AQUIFER
MAY 25, 2007

HOUSTON, TEXAS

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	FILE PATH
Houston, TX	B. Lu 08/27/07			F:\GIS\JonesRd\GISDocs\ProjectMaps\May25_07_Contours.mxd

Plot Date: 08/07



Potentiometric contours were computer generated using ArcGIS 9.2 software.

LEGEND

- Chicot Monitor Well Location
- Evangeline Monitor Well Location
- Direction of Groundwater Flow
- Potentiometric Contour
- Streets

MW-15 Monitor well ID
(-14.66) Depth to groundwater in feet below sea level

NOTES:

1. Well sites were gauged on 06/08/2007.
2. MW-17 is completed in the Evangeline Aquifer and was not included in this potentiometric map.
3. Hydraulic gradient = 0.00249 ft/ft.
4. Datum - Sea level

0 250 500 1,000 Feet

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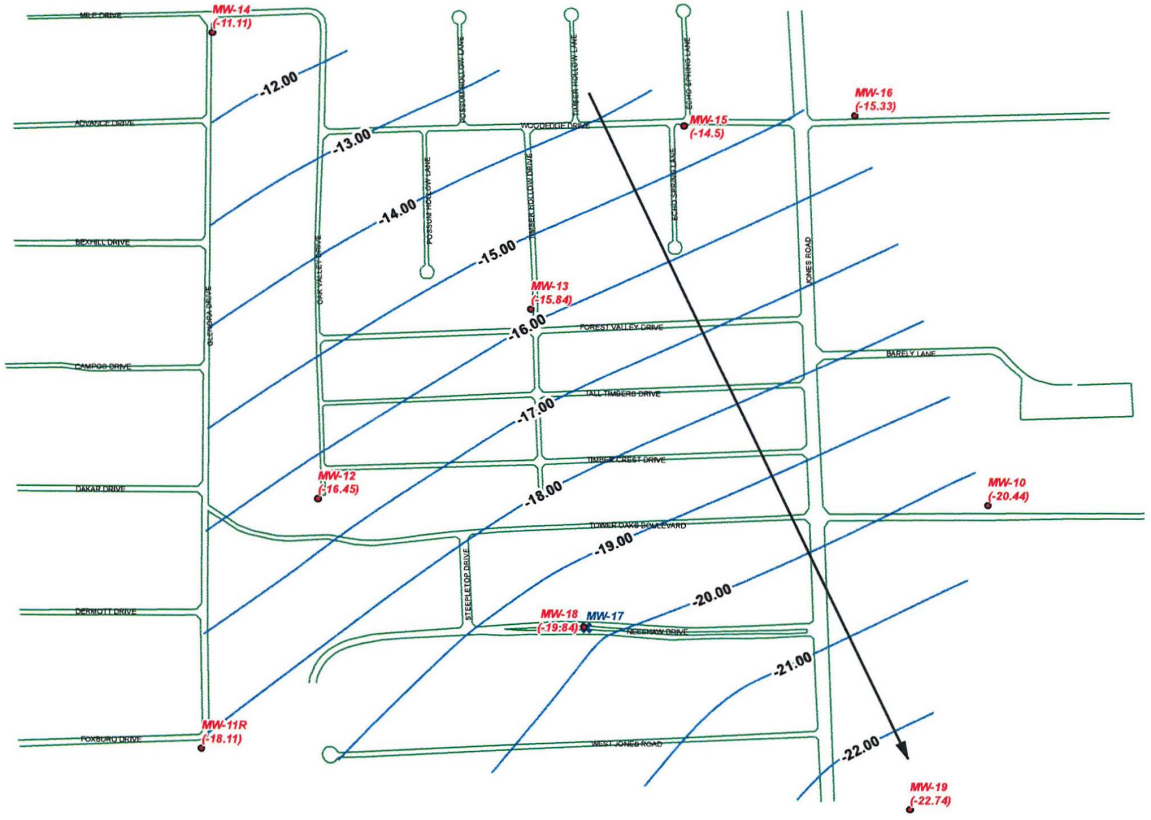
FIGURE 8

JONES ROAD SUPERFUND SITE
POTENTIOMETRIC SURFACE MAP
OF THE CHICOT AQUIFER
JUNE 08, 2007

HOUSTON, TEXAS

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	FILE PATH
Houston, TX	B. Lu 08/27/07			F:\GIS\JonesRd\GISDocs\ProjectMaps\Jun08_07_Contours.mxd

Plot Date: 08/07



Potentiometric contours were computer generated using ArcGIS 9.2 software.

LEGEND

- Chicot Monitor Well Location
- Evangeline Monitor Well Location
- Direction of Groundwater Flow
- Potentiometric Contour
- Streets

MW-15 Monitor well ID
(-14.50) Depth to groundwater in feet below sea level

NOTES:

1. Well sites were gauged on 06/25/2007.
2. MW-17 is completed in the Evangeline Aquifer and was not included in this potentiometric map.
3. Hydraulic gradient = 0.00250 ft/ft.
4. Datum - Sea level

0 250 500 1,000 Feet

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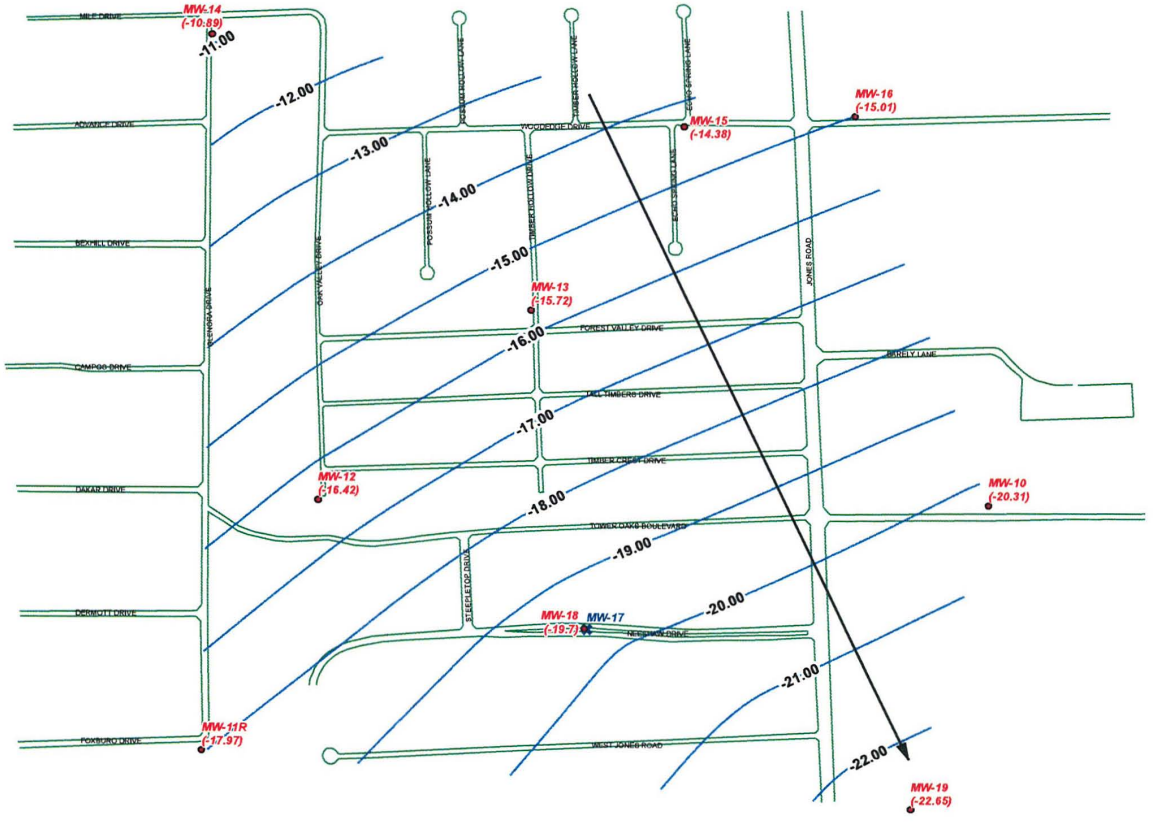
FIGURE 9

JONES ROAD SUPERFUND SITE
POTENTIOMETRIC SURFACE MAP
OF THE CHICOT AQUIFER
JUNE 25, 2007

HOUSTON, TEXAS

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	FILE PATH
Houston, TX	B. Lu 08/27/07			F:\GIS\JonesRd\GISDocs\ProjectMaps\Jun25_07_Contours.mxd

Plot Date: 08/07



Potentiometric contours were computer generated using ArcGIS 9.2 software.

LEGEND

- Chicot Monitor Well Location
- Evangeline Monitor Well Location
- Direction of Groundwater Flow
- Potentiometric Contour
- Streets
- MW-15 (-14.38) — Monitor well ID; Depth to groundwater in feet below sea level

NOTES:

1. Well sites were gauged on 07/05/2007.
2. MW-17 is completed in the Evangeline Aquifer and was not included in this potentiometric map.
3. Hydraulic gradient = 0.00250 ft/ft.
4. Datum - Sea level

0 250 500 1,000 Feet

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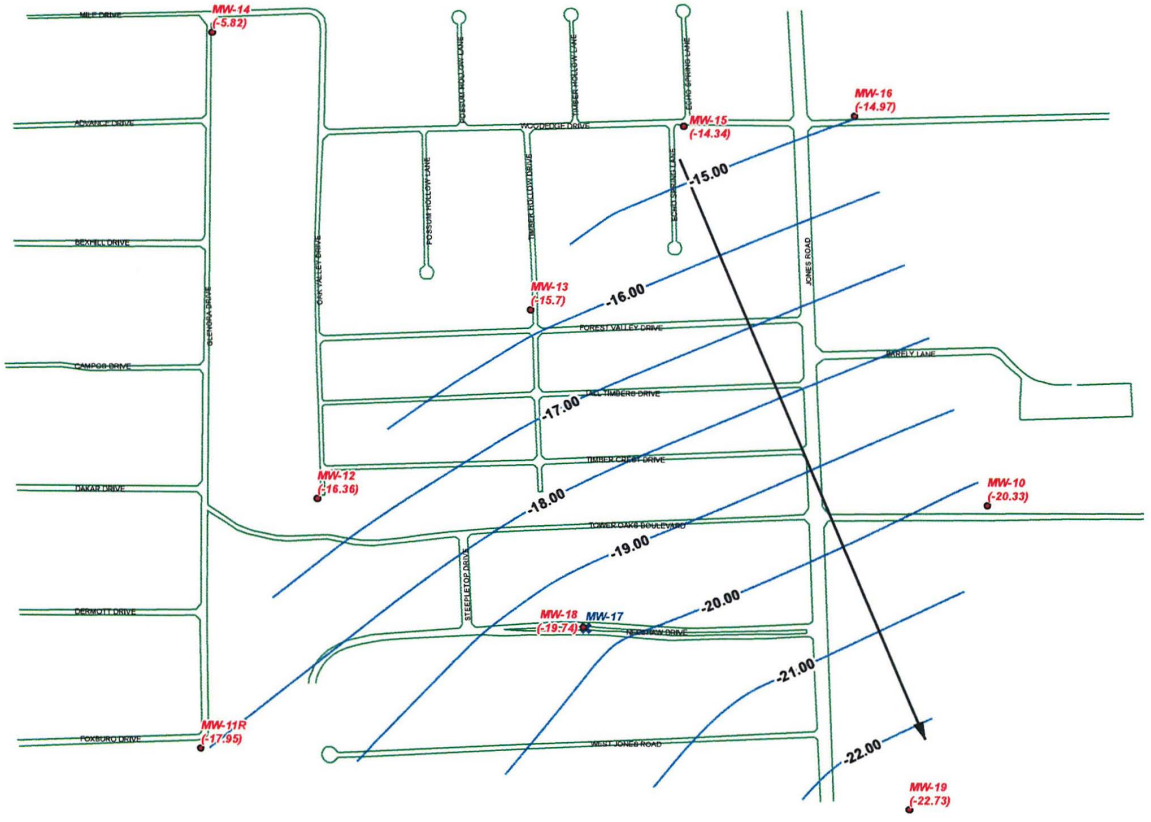
FIGURE 10

JONES ROAD SUPERFUND SITE
POTENTIOMETRIC SURFACE MAP
OF THE CHICOT AQUIFER
JULY 05, 2007

HOUSTON, TEXAS

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	FILE PATH
Houston, TX	B. Lu 08/27/07			F:\GIS\JonesRd\GISDocs\ProjectMaps\Jul05_07_Contours.mxd

Plot Date: 08/07



Potentiometric contours were computer generated using ArcGIS 9.2 software.

LEGEND

- Chicot Monitor Well Location
- Evangeline Monitor Well Location
- Direction of Groundwater Flow
- Potentiometric Contour
- Streets

MW-15 Monitor well ID
(-14.34) Depth to groundwater in feet below sea level

NOTES:

1. Well sites were gauged on 07/20/2007.
2. MW-17 is completed in the Evangeline Aquifer and was not included in this potentiometric map.
3. Hydraulic gradient = 0.00252 ft/ft.
4. Datum - Sea level
5. Data from MW-14 was not used to generate the contours because of the abnormal reading.

0 250 500 1,000 Feet

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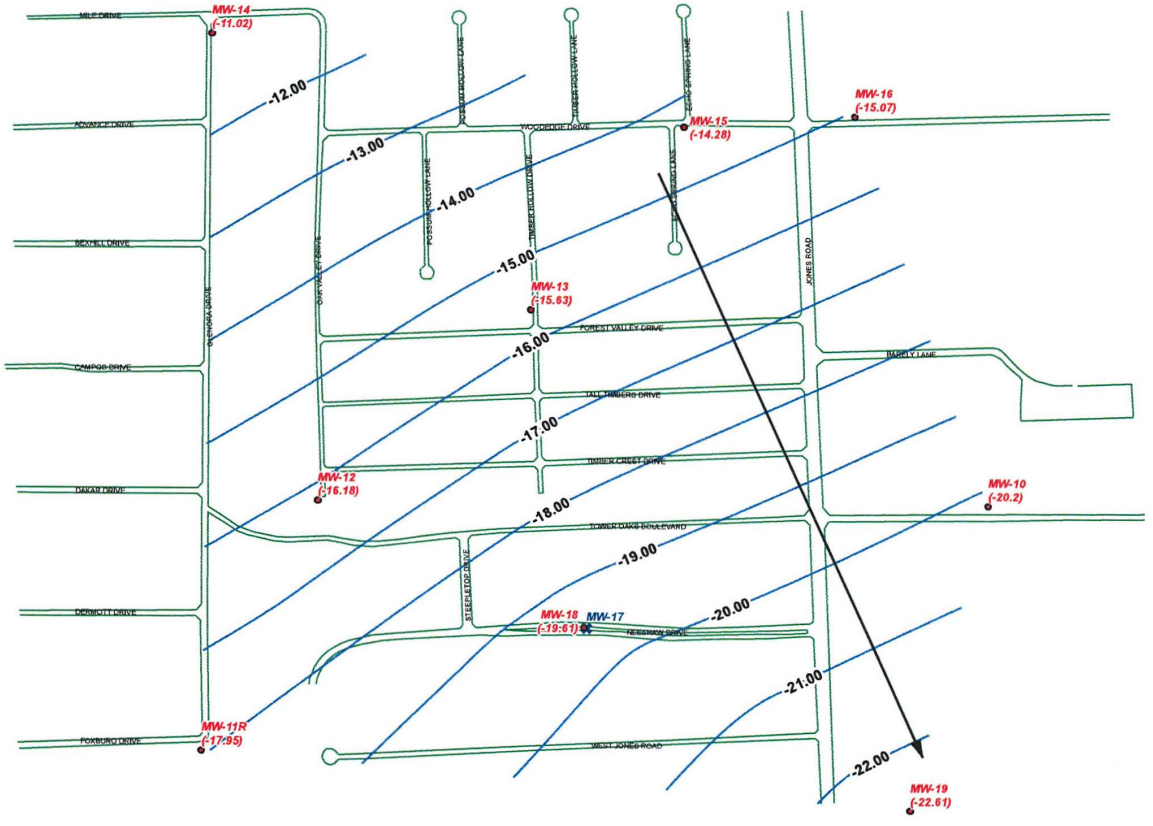
FIGURE 11

JONES ROAD SUPERFUND SITE
POTENTIOMETRIC SURFACE MAP
OF THE CHICOT AQUIFER
JULY 20, 2007

HOUSTON, TEXAS

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	FILE PATH
Houston, TX	B. Lu 08/27/07			F:\GIS\JonesRd\GISDocs\ProjectMaps\Jul20_07_Contours.mxd

Plot Date: 08/07



Potentiometric contours were computer generated using ArcGIS 9.2 software.

LEGEND

- Chicot Monitor Well Location
- Evangeline Monitor Well Location
- Direction of Groundwater Flow
- Potentiometric Contour
- Streets
- MW-15 (-14.28) Monitor well ID / Depth to groundwater in feet below sea level

NOTES:

1. Well sites were gauged on 08/03/2007.
2. MW-17 is completed in the Evangeline Aquifer and was not included in this potentiometric map.
3. Hydraulic gradient = 0.00250 ft/ft.
4. Datum - Sea level

0 250 500 1,000 Feet

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FIGURE 12

JONES ROAD SUPERFUND SITE
POTENTIOMETRIC SURFACE MAP
OF THE CHICOT AQUIFER
AUGUST 3, 2007

HOUSTON, TEXAS

OFFICE	DRAWN BY		CHECKED BY	APPROVED BY	FILE PATH
Houston, TX	B. Lu	08/27/07			F:\GIS\JonesRd\GIS\Docs\ProjectMaps\Aug03_07_Contours.mxd

Plot Date: 08/07

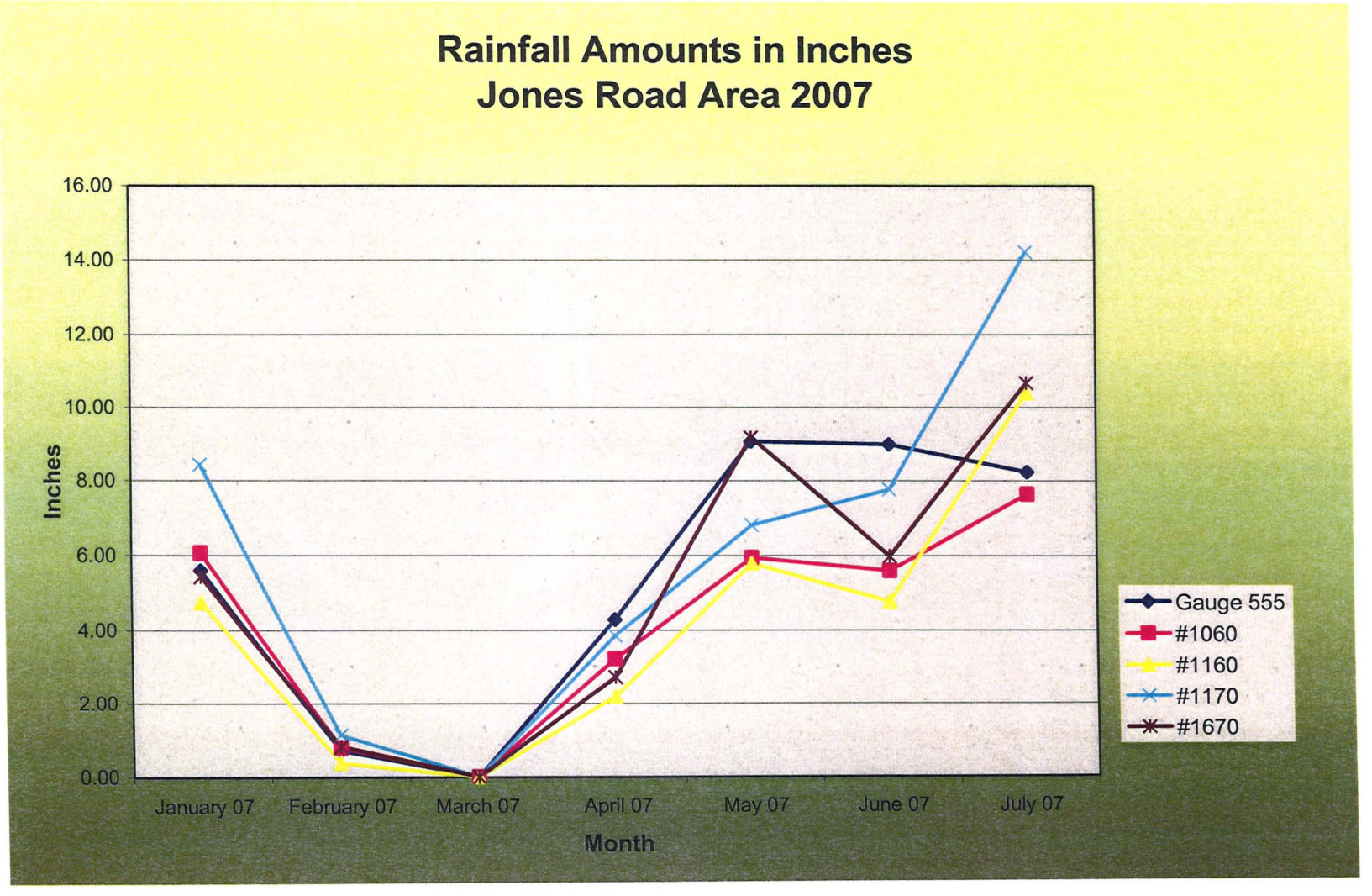
Jones Road Area Rainfall Gauges 2007

2007	Gauge #555	Gauge #1060	Gauge #1160	Gauge #1170	Gauge #1670
January 07	5.59	6.06	4.76	8.43	5.43
February 07	0.71	0.79	0.39	1.14	0.83
March 07	NA	NA	NA	NA	NA
April 07	4.29	3.23	2.20	3.86	2.72
May 07	9.06	5.94	5.79	6.81	9.17
June 07	8.98	5.59	4.76	7.76	5.98
July 07	8.23	7.64	10.39	14.21	10.67
August 07					
September 07					
October 07					
November 07					
December 07					

NA= Not Available

Station #	Location	Key Map	Latitude	Longitude
555	E100 White Oak Bayou and Jones	409B	29.91777	-95.58461
1060	Spring Creek and Kuykendahl	369A	30.17019	-95.54107
1160	Cypress Creek and Grant	369A	29.97364	-95.59871
1170	Cypress Creek and Huffmeister	368K	29.96159	-95.63100
1670	P100 Greens Bayou and Cutten Road	370Q	29.94925	-95.51977

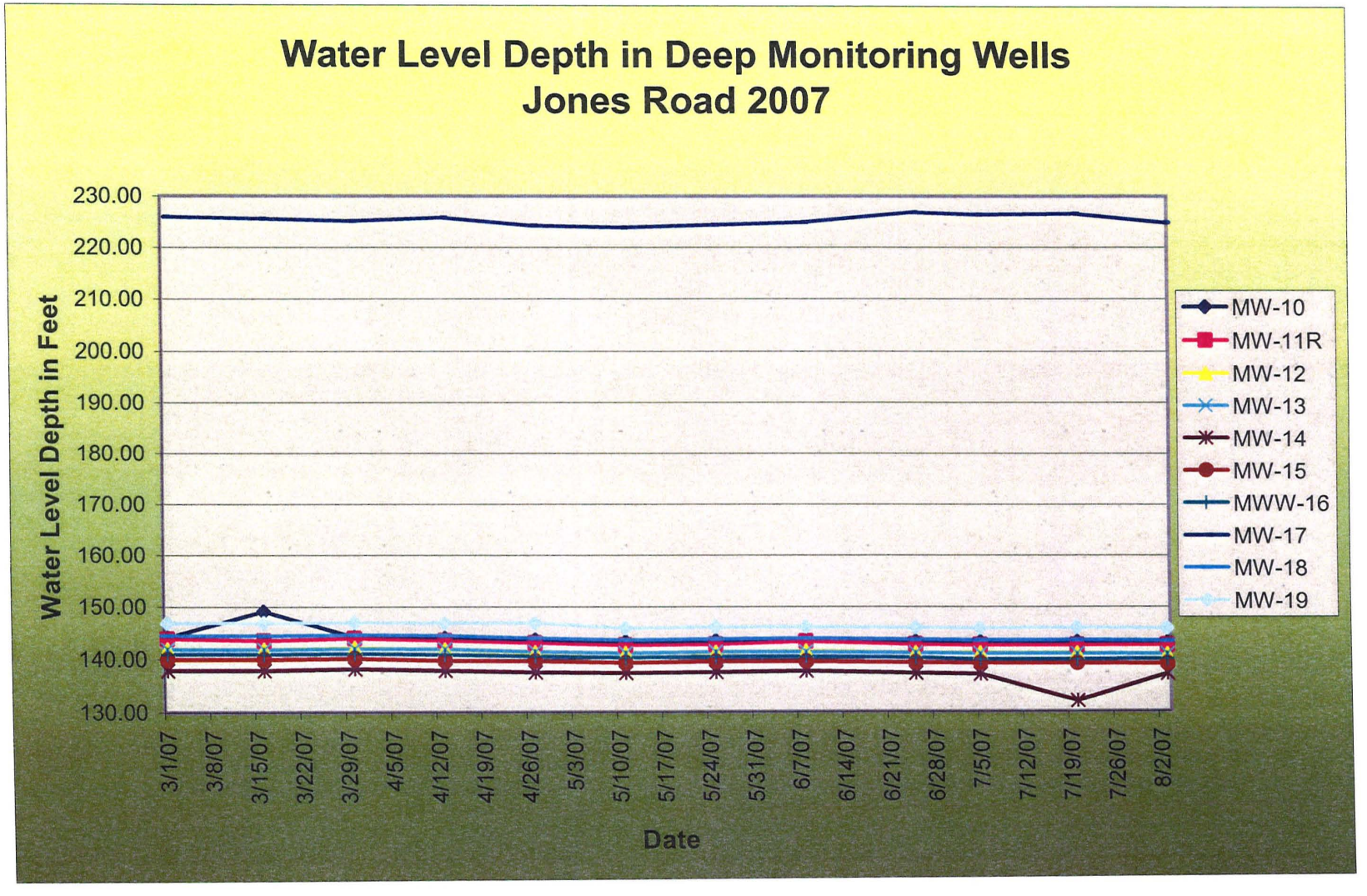
Source: http://www.hcoem.org/archives.htm

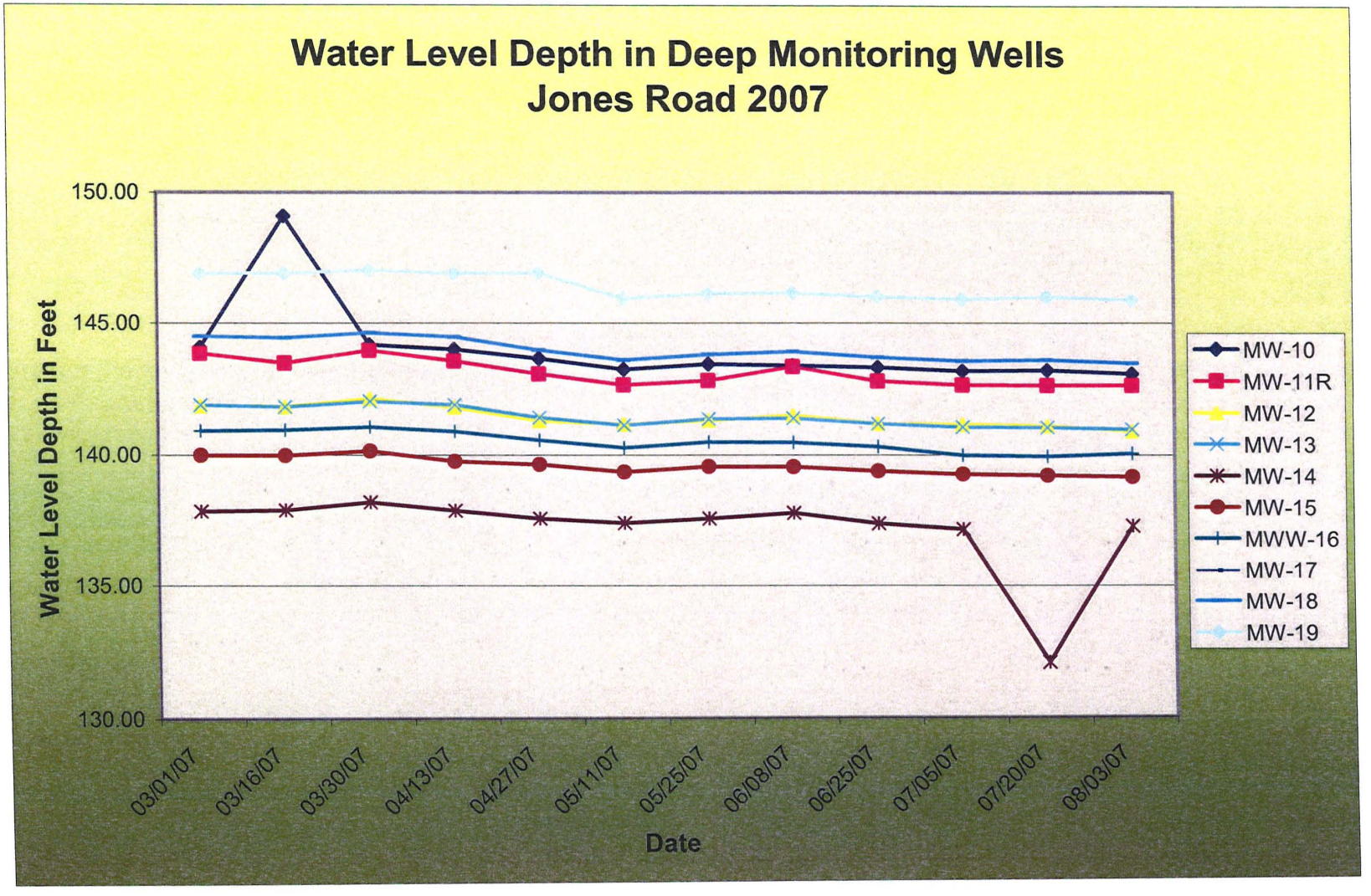

Rainfall Amounts in Inches
Jones Road Area 2007
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
Inches
January 07
February 07
March 07
April 07
May 07
June 07
July 07
Month
Gauge 555
#1060
#1160
#1170
#1670

	Gauge 555
January 07	5.59
February 07	0.71
March 07	NA
April 07	4.29
May 07	9.06
June 07	8.98
July 07	8.23

Jones Road Deep Monitoring Wells 2007

	MW-10	MW-11R	MW-12	MW-13	MW-14	MW-15	MWW-16	MW-17	MW-18	MW-19
03/01/07	144.07	143.84	141.89	141.90	137.85	139.99	140.92	225.89	144.50	146.90
03/16/07	149.09	143.48	141.86	141.84	137.89	139.98	140.95	225.53	144.44	146.90
03/30/07	144.17	143.96	142.15	142.05	138.20	140.15	141.07	225.08	144.63	147.03
04/13/07	144.00	143.56	141.83	141.92	137.87	139.76	140.90	225.75	144.48	146.91
04/27/07	143.66	143.08	141.31	141.44	137.57	139.64	140.57	224.20	143.99	146.93
05/11/07	143.26	142.67	141.18	141.14	137.40	139.35	140.28	223.84	143.62	145.94
05/25/07	143.46	142.83	141.32	141.38	137.57	139.56	140.49	224.35	143.82	146.13
06/08/07	143.40	143.36	141.51	141.41	137.78	139.55	140.48	224.84	143.93	146.15
06/25/07	143.33	142.81	141.19	141.19	137.38	139.39	140.31	226.81	143.72	146.00
07/05/07	143.20	142.67	141.16	141.07	137.16	139.27	139.99	226.34	143.58	145.91
07/20/07	143.22	142.65	141.10	141.05	132.09	139.23	139.95	226.53	143.62	145.99
08/03/07	143.09	142.65	140.92	140.98	137.29	139.17	140.05	224.80	143.49	145.87


Water Level Depth in Deep Monitoring Wells
Jones Road 2007
Water Level Depth in Feet
230.00
220.00
210.00
200.00
190.00
180.00
170.00
160.00
150.00
140.00
130.00
3/1/07
3/8/07
3/15/07
3/22/07
3/29/07
4/5/07
4/12/07
4/19/07
4/26/07
5/3/07
5/10/07
5/17/07
5/24/07
5/31/07
6/7/07
6/14/07
6/21/07
6/28/07
7/5/07
7/12/07
7/19/07
7/26/07
8/2/07
Date
MW-10
MW-11R
MW-12
MW-13
MW-14
MW-15
MWW-16
MW-17
MW-18
MW-19


Water Level Depth in Deep Monitoring Wells
Jones Road 2007
Water Level Depth in Feet
150.00
145.00
140.00
135.00
130.00
03/01/07
03/16/07
03/30/07
04/13/07
04/27/07
05/11/07
05/25/07
06/08/07
06/25/07
07/05/07
07/20/07
08/03/07
Date
MW-10
MW-11R
MW-12
MW-13
MW-14
MW-15
MWW-16
MW-17
MW-18
MW-19