

APPENDIX A

THE PRESERVE TRAIL PLAN

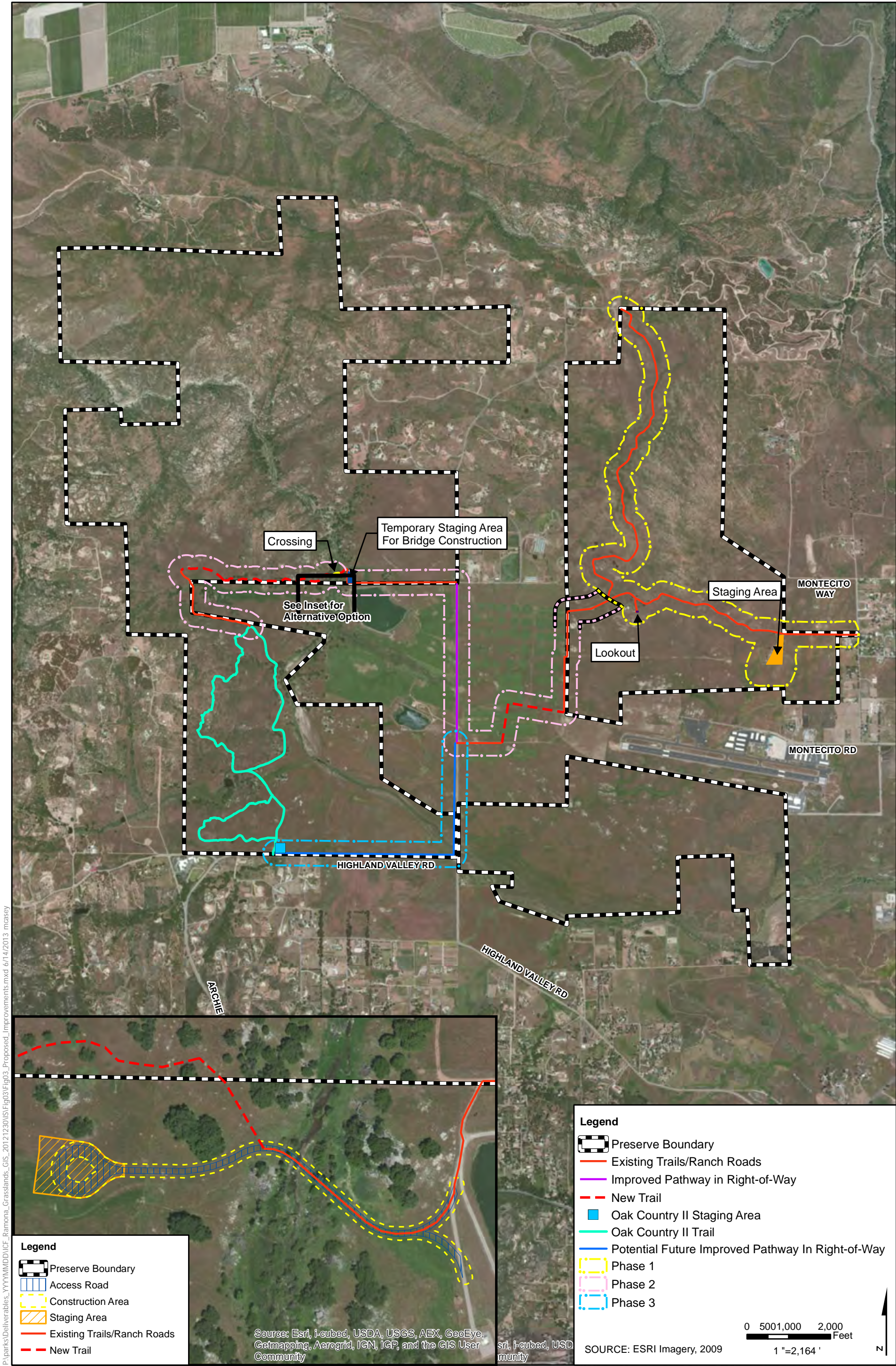


Figure 3
Revised Proposed Trails and Infrastructure Improvements
Initial Study for the Ramona Grasslands Preserve Project

APPENDIX B

POINT COUNT LOCATION SITE PHOTOS

Appendix B: Point Count Location Photos

Northeast Point Count Location Looking North



Appendix B: Point Count Location Photos

Northeast Point Count Location

Looking East



Appendix B: Point Count Location Photos

Northeast Point Count Location

Looking South



Appendix B: Point Count Location Photos

Northeast Point Count Location

Looking West



Appendix B: Point Count Location Photos

Southwest Point Count Location

Looking North



Appendix B: Point Count Location Photos

Southwest Point Count Location

Looking East



Appendix B: Point Count Location Photos

Southwest Point Count Location

Looking South



Appendix B: Point Count Location Photos

Southwest Point Count Location

Looking West



APPENDIX C

SURVEY DATES, PERSONNEL, AND WEATHER CONDITIONS

APPENDIX C SURVEY DATES, PERSONNEL, AND WEATHER CONDITIONS

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
SW	09/26/2013	James McMorran	08:25	Temp: 63 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: SE
SW	09/26/2013	James McMorran	09:09	Temp: 60 °F, 90% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: SE
SW	09/26/2013	James McMorran	10:06	Temp: 60 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: SE
SW	09/26/2013	James McMorran	11:07	Temp: 64 °F, 95% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: S
SW	09/26/2013	James McMorran	12:24	Temp: 71 °F, 70% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: S
NE	09/26/2013	James McMorran	12:44	Temp: 73 °F, 50% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: SW
NE	09/26/2013	James McMorran	14:33	Temp: 72 °F, 60% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: S
NE	09/26/2013	James McMorran	15:20	Temp: 71 °F, 50% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 11 mph, Wind Direction: W
NE	09/26/2013	James McMorran	16:07	Temp: 65 °F, 70% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 11 mph, Wind Direction: W
NE	09/26/2013	James McMorran	17:40	Temp: 63 °F, 50% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: W
NE	10/29/2013	James McMorran	07:37	Temp: 50 °F, 90% Cloud Cover, Visibility: good, Precipitation: light rain, Avg. Wind Speed: 0 mph, Wind Direction: N/A
NE	10/29/2013	James McMorran	09:05	Temp: 52 °F, 60% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: S
NE	10/29/2013	James McMorran	09:51	Temp: 52 °F, 40% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: S
NE	10/29/2013	James McMorran	10:47	Temp: 56 °F, 30% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: SW
NE	10/29/2013	James McMorran	11:49	Temp: 56 °F, 70% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: W

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
SW	10/29/2013	James McMorran	12:46	Temp: 58 °F, 50% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: W
SW	10/29/2013	James McMorran	14:06	Temp: 58 °F, 70% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: SW
SW	10/29/2013	James McMorran	15:00	Temp: 58 °F, 50% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: W
SW	10/29/2013	James McMorran	15:51	Temp: 55 °F, 40% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: SW
SW	10/29/2013	James McMorran	16:46	Temp: 58 °F, 70% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: SW
SW	11/18/2013	Jeep Pagel	07:31	Temp: 48 °F, 40% Cloud Cover, Visibility: fair, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
SW	11/18/2013	Jeep Pagel	08:34	Temp: 65 °F, 20% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
SW	11/18/2013	Jeep Pagel	09:32	Temp: 65 °F, 60% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: S
SW	11/18/2013	Jeep Pagel	10:28	Temp: 75 °F, 50% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
SW	11/18/2013	Jeep Pagel	11:27	Temp: 78 °F, 5% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: S
NE	11/18/2013	Jeep Pagel	12:07	Temp: 78 °F, 5% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: E
NE	11/18/2013	Jeep Pagel	12:59	Temp: 75 °F, 5% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: W
NE	11/18/2013	Jeep Pagel	14:03	Temp: 70 °F, 60% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: SW
NE	11/18/2013	Jeep Pagel	14:57	Temp: 65 °F, 15% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: W
NE	11/18/2013	Jeep Pagel	15:59	Temp: 60 °F, 10% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 12 mph, Wind Direction: W
SW	11/26/2013	James McMorran	07:42	Temp: 43 °F, 40% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
SW	11/26/2013	James McMorran	09:58	Temp: 64 °F, 30% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: N
SW	11/26/2013	James McMorran	10:33	Temp: 68 °F, 30% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: NE
SW	11/26/2013	James McMorran	11:23	Temp: 69 °F, 30% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 10 mph, Wind Direction: E
NE	11/26/2013	James McMorran	12:07	Temp: 73 °F, 30% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 10 mph, Wind Direction: E
NE	11/26/2013	James McMorran	14:35	Temp: 76 °F, 30% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: SE
NE	11/26/2013	James McMorran	14:56	Temp: 71 °F, 30% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 12 mph, Wind Direction: E
NE	11/26/2013	James McMorran	16:37	Temp: 73 °F, 30% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 13 mph, Wind Direction: E
SW	12/13/2013	Jeep Pagel	08:09	Temp: 43 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: SW
SW	12/13/2013	Jeep Pagel	08:56	Temp: 52 °F, 10% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
SW	12/13/2013	Jeep Pagel	09:52	Temp: 61 °F, 2% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
SW	12/13/2013	Jeep Pagel	10:45	Temp: 60 °F, 2% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
SW	12/13/2013	Jeep Pagel	11:49	Temp: 64 °F, 2% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4.5 mph, Wind Direction: SW
NE	12/13/2013	Jeep Pagel	12:24	Temp: 63 °F, 4% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 7 mph, Wind Direction: W
NE	12/13/2013	Jeep Pagel	13:21	Temp: 65 °F, 25% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: W
NE	12/13/2013	Jeep Pagel	14:16	Temp: 66 °F, 15% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: W
NE	12/13/2013	Jeep Pagel	15:07	Temp: 62 °F, 20% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 7 mph, Wind Direction: W

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
NE	12/13/2013	Jeep Pagel	16:17	Temp: 57 °F, 20% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: W
NE	12/30/2013	James McMorran	08:22	Temp: 38 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
NE	12/30/2013	James McMorran	08:53	Temp: 54 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: E
NE	12/30/2013	James McMorran	09:52	Temp: 63 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: E
NE	12/30/2013	James McMorran	10:53	Temp: 67 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: SE
NE	12/30/2013	James McMorran	11:56	Temp: 71 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: SW
SW	12/30/2013	James McMorran	12:42	Temp: 72 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: SW
SW	12/30/2013	James McMorran	13:23	Temp: 76 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: SW
SW	12/30/2013	James McMorran	14:24	Temp: 72 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: S
SW	12/30/2013	James McMorran	15:17	Temp: 70 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: SW
SW	12/30/2013	James McMorran	16:18	Temp: 66 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: SW
SW	01/17/2014	Jeep Pagel	08:13	Temp: 65 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: SE
SW	01/17/2014	Jeep Pagel	09:11	Temp: 75 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: SE
SW	01/17/2014	Jeep Pagel	10:09	Temp: 78 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 10 mph, Wind Direction: E
SW	01/17/2014	Jeep Pagel	11:06	Temp: 79 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 13 mph, Wind Direction: E
SW	01/17/2014	Jeep Pagel	12:05	Temp: 82 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: SE

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
NE	01/17/2014	Jeep Pagel	12:31	Temp: 82 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 11 mph, Wind Direction: E
NE	01/17/2014	Jeep Pagel	13:36	Temp: 81 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: E
NE	01/17/2014	Jeep Pagel	14:32	Temp: 83 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 10 mph, Wind Direction: E
NE	01/17/2014	Jeep Pagel	15:37	Temp: 82 °F, 5% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: NE
NE	01/17/2014	Jeep Pagel	16:29	Temp: 74 °F, 3% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 9 mph, Wind Direction: SW
SW	01/31/2014	James McMorran	08:17	Temp: 46 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: SW
SW	01/31/2014	James McMorran	09:03	Temp: 48 °F, 100% Cloud Cover, Visibility: fair, Precipitation: other (explain in notes), Avg. Wind Speed: 4 mph, Wind Direction: SW
SW	01/31/2014	James McMorran	10:06	Temp: 52 °F, 90% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: SW
SW	01/31/2014	James McMorran	11:07	Temp: 51 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: SW
SW	01/31/2014	James McMorran	12:02	Temp: 54 °F, 100% Cloud Cover, Visibility: fair, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: SW
NE	01/31/2014	James McMorran	12:18	Temp: 53 °F, 95% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: SW
NE	01/31/2014	James McMorran	13:02	Temp: 51 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: W
NE	01/31/2014	James McMorran	14:02	Temp: 51 °F, 90% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: W
NE	01/31/2014	James McMorran	15:18	Temp: 50 °F, 80% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: SW
NE	01/31/2014	James McMorran	16:58	Temp: 50 °F, 85% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 9 mph, Wind Direction: SW
SW	02/11/2014	Jeep Pagel	07:57	Temp: 50 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
SW	02/11/2014	Jeep Pagel	08:53	Temp: 70 °F, 5% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
SW	02/11/2014	Jeep Pagel	09:51	Temp: 79 °F, 5% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
SW	02/11/2014	Jeep Pagel	10:53	Temp: 77 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0.8 mph, Wind Direction: SW
SW	02/11/2014	Jeep Pagel	11:42	Temp: 73 °F, 5% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: SW
NE	02/11/2014	Jeep Pagel	12:22	Temp: 73 °F, 5% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 7 mph, Wind Direction: SW
NE	02/11/2014	Jeep Pagel	12:24	Temp: 74 °F, 58% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 7 mph, Wind Direction: SW
NE	02/11/2014	Jeep Pagel	13:30	Temp: 72 °F, 15% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 9 mph, Wind Direction: SW
NE	02/11/2014	Jeep Pagel	14:15	Temp: 73 °F, 70% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 9 mph, Wind Direction: SW
NE	02/11/2014	Jeep Pagel	15:20	Temp: 69 °F, 50% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: W
NE	02/11/2014	Jeep Pagel	16:18	Temp: 66 °F, 65% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: W
NE	02/25/2014	James McMorran	07:42	Temp: 49 °F, 70% Cloud Cover, Visibility: fair, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
NE	02/25/2014	James McMorran	08:42	Temp: 61 °F, 40% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: E
NE	02/25/2014	James McMorran	09:42	Temp: 66 °F, 30% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: SE
NE	02/25/2014	James McMorran	10:55	Temp: 68 °F, 20% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: W
NE	02/25/2014	James McMorran	11:45	Temp: 71 °F, 20% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: SW
SW	02/25/2014	James McMorran	12:46	Temp: 73 °F, 15% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: SW

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
SW	02/25/2014	James McMorran	13:22	Temp: 71 °F, 10% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: SW
SW	02/25/2014	James McMorran	14:29	Temp: 70 °F, 10% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: SW
SW	02/25/2014	James McMorran	15:24	Temp: 67 °F, 10% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: SW
SW	02/25/2014	James McMorran	16:30	Temp: 63 °F, 25% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: SW
SW	03/14/2014	Jeep Pagel	09:44	Temp: 61 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: E
SW	03/14/2014	Jeep Pagel	10:21	Temp: 71 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: E
SW	03/14/2014	Jeep Pagel	10:57	Temp: 71 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: SW
SW	03/14/2014	Jeep Pagel	12:14	Temp: 73 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: W
SW	03/14/2014	Jeep Pagel	12:41	Temp: 75 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: W
NE	03/14/2014	Jeep Pagel	13:05	Temp: 75 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: SW
NE	03/14/2014	Jeep Pagel	14:00	Temp: 71 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: SW
NE	03/14/2014	Jeep Pagel	14:56	Temp: 68 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: SW
NE	03/14/2014	Jeep Pagel	15:59	Temp: 69 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: SW
NE	03/14/2014	Jeep Pagel	16:54	Temp: 69 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: SW
SW	03/25/2014	James McMorran	08:01	Temp: 54 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
SW	03/25/2014	James McMorran	08:02	Temp: 55 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
SW	03/25/2014	James McMorran	08:02	Temp: 55 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
SW	03/25/2014	James McMorran	08:02	Temp: 60 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
SW	03/25/2014	James McMorran	08:03	Temp: 58 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: SW
NE	03/25/2014	James McMorran	08:04	Temp: 58 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: N/A
NE	03/25/2014	James McMorran	08:04	Temp: 59 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: N/A
NE	03/25/2014	James McMorran	08:05	Temp: 62 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: SW
NE	03/25/2014	James McMorran	08:05	Temp: 62 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: SW
NE	03/25/2014	James McMorran	08:06	Temp: 61 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: SW
SW	04/15/2014	Jeep Pagel	09:06	Temp: 72 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
SW	04/15/2014	Jeep Pagel	09:07	Temp: 77 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: SW
SW	04/15/2014	Jeep Pagel	09:07	Temp: 77 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: S
SW	04/15/2014	Jeep Pagel	09:07	Temp: 75 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: S
SW	04/15/2014	Jeep Pagel	09:08	Temp: 78 °F, 5% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: W
NE	04/15/2014	Jeep Pagel	09:22	Temp: 78 °F, 10% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 11 mph, Wind Direction: SW
NE	04/15/2014	Jeep Pagel	09:23	Temp: 78 °F, 15% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 10 mph, Wind Direction: SW
NE	04/15/2014	Jeep Pagel	09:23	Temp: 77 °F, 15% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: SW

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
NE	04/15/2014	Jeep Pagel	09:24	Temp: 76 °F, 50% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: SW
NE	04/15/2014	Jeep Pagel	09:25	Temp: 77 °F, 50% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: SW
NE	04/30/2014	James McMorran	08:56	Temp: 76 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 18 mph, Wind Direction: NE
NE	04/30/2014	James McMorran	09:46	Temp: 79 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 23 mph, Wind Direction: NE
NE	04/30/2014	James McMorran	10:46	Temp: 85 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 23 mph, Wind Direction: NE
NE	04/30/2014	James McMorran	11:49	Temp: 80 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 24 mph, Wind Direction: NE
NE	04/30/2014	James McMorran	12:54	Temp: 83 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 26 mph, Wind Direction: NE
SW	04/30/2014	James McMorran	13:30	Temp: 78 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 24 mph, Wind Direction: NE
SW	04/30/2014	James McMorran	13:32	Temp: 85 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 18 mph, Wind Direction: E
SW	04/30/2014	James McMorran	13:32	Temp: 86 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 22 mph, Wind Direction: NE
SW	04/30/2014	James McMorran	13:33	Temp: 87 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 21 mph, Wind Direction: E
SW	04/30/2014	James McMorran	13:34	Temp: 85 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 14 mph, Wind Direction: E
SW	05/16/2014	JEEP PAGEL	09:20	Temp: 87 °F, 20% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 7 mph, Wind Direction: NE
SW	05/16/2014	JEEP PAGEL	10:21	Temp: 92 °F, 20% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: NE

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
SW	05/16/2014	JEEP PAGEL	11:22	Temp: 97 °F, 20% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: W
SW	05/16/2014	JEEP PAGEL	12:23	Temp: 99 °F, 20% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: W
NE	05/16/2014	Jeep pagel	12:38	Temp: 100 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 9 mph, Wind Direction: W
NE	05/16/2014	Jeep pagel	12:39	Temp: 97 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 11 mph, Wind Direction: W
NE	05/16/2014	Jeep pagel	12:40	Temp: 93 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 14 mph, Wind Direction: W
NE	05/16/2014	Jeep pagel	12:40	Temp: 98 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 14 mph, Wind Direction: W
NE	05/16/2014	Jeep pagel	12:41	Temp: 90 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 10 mph, Wind Direction: W
SW	05/16/2014	JEEP PAGEL	20:26	Temp: 85 °F, 20% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: NE
SW	05/28/2014	James McMorran	10:32	Temp: 75 °F, 5% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: E
SW	05/28/2014	James McMorran	11:27	Temp: 70 °F, 5% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: SE
SW	05/28/2014	James McMorran	11:33	Temp: 76 °F, 5% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: E
SW	05/28/2014	James McMorran	12:34	Temp: 79 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: E
SW	05/28/2014	James McMorran	13:36	Temp: 84 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: E
NE	05/28/2014	James McMorran	14:11	Temp: 80 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: SW
NE	05/28/2014	James McMorran	15:12	Temp: 82 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: SW
NE	05/28/2014	James McMorran	16:13	Temp: 83 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 7 mph, Wind Direction: W

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
NE	05/28/2014	James McMorran	17:14	Temp: 80 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 7 mph, Wind Direction: SW
NE	05/28/2014	James McMorran	18:16	Temp: 76 °F, 10% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: W
SW	06/13/2014	Jeep Pagel	08:31	Temp: 65 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: N
SW	06/13/2014	Jeep Pagel	08:32	Temp: 70 °F, 0% Cloud Cover, Visibility: fair, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: SW
SW	06/13/2014	Jeep Pagel	08:32	Temp: 74 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: SW
SW	06/13/2014	Jeep Pagel	08:33	Temp: 83 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: SW
SW	06/13/2014	Jeep Pagel	08:33	Temp: 75 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: SW
NE	06/13/2014	Jeep Pagel	08:42	Temp: 82 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 7 mph, Wind Direction: SW
NE	06/13/2014	Jeep Pagel	08:42	Temp: 85 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 10 mph, Wind Direction: SW
NE	06/13/2014	Jeep Pagel	08:45	Temp: 76 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: SW
NE	06/13/2014	Jeep Pagel	08:45	Temp: 83 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 9 mph, Wind Direction: SW
NE	06/13/2014	Jeep Pagel	08:46	Temp: 77 °F, 0% Cloud Cover, Visibility: fair, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: SW
NE	06/25/2014	James McMorran	08:32	Temp: 64 °F, 100% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
NE	06/25/2014	James McMorran	09:29	Temp: 73 °F, 10% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: SW
NE	06/25/2014	James McMorran	10:28	Temp: 77 °F, 0% Cloud Cover, Visibility: fair, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: SW
NE	06/25/2014	James McMorran	11:30	Temp: 81 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: W

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
NE	06/25/2014	James McMorran	12:26	Temp: 82 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: W
SW	06/25/2014	James McMorran	13:17	Temp: 82 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: W
SW	06/25/2014	James McMorran	13:55	Temp: 83 °F, 0% Cloud Cover, Visibility: fair, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: W
SW	06/25/2014	James McMorran	14:56	Temp: 84 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: W
SW	06/25/2014	James McMorran	16:05	Temp: 81 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: W
SW	06/26/2014	James McMorran	10:06	Temp: 80 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: W
SW	07/16/2014	Jeep Pagel	07:37	Temp: 66 °F, 40% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
SW	07/16/2014	Jeep Pagel	07:38	Temp: 72 °F, 20% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: W
SW	07/16/2014	Jeep Pagel	07:39	Temp: 74 °F, 10% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: W
SW	07/16/2014	Jeep Pagel	07:40	Temp: 79 °F, 2% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 1 mph, Wind Direction: W
SW	07/16/2014	Jeep Pagel	07:40	Temp: 82 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: SW
NE	07/16/2014	Jeep Pagel	07:50	Temp: 83 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 9 mph, Wind Direction: SW
NE	07/16/2014	Jeep Pagel	07:50	Temp: 82 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 7 mph, Wind Direction: W
NE	07/16/2014	Jeep Pagel	07:51	Temp: 79 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: SW
NE	07/16/2014	Jeep Pagel	07:51	Temp: 82 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 11 mph, Wind Direction: SW
NE	07/16/2014	Jeep Pagel	07:52	Temp: 77 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 15 mph, Wind Direction: SW

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
SW	07/29/2014	James McMorran	10:44	Temp: 92 °F, 10% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: W
SW	07/29/2014	James McMorran	11:18	Temp: 93 °F, 15% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: SW
SW	07/29/2014	James McMorran	12:19	Temp: 94 °F, 15% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: SW
SW	07/29/2014	James McMorran	13:21	Temp: 97 °F, 50% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: SW
SW	07/29/2014	James McMorran	14:21	Temp: 100 °F, 50% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 7 mph, Wind Direction: SW
NE	07/29/2014	James McMorran	15:04	Temp: 100 °F, 20% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: W
NE	07/29/2014	James McMorran	16:05	Temp: 96 °F, 10% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: W
NE	07/29/2014	James McMorran	17:03	Temp: 93 °F, 5% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 8 mph, Wind Direction: W
NE	07/29/2014	James McMorran	18:11	Temp: 89 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 6 mph, Wind Direction: W
NE	07/29/2014	James McMorran	19:12	Temp: 87 °F, 10% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: W
NE	08/30/2014	James McMorran	08:40	Temp: 72 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 0 mph, Wind Direction: N/A
NE	08/30/2014	James McMorran	09:33	Temp: 76 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: W
NE	08/30/2014	James McMorran	10:31	Temp: 88 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 2 mph, Wind Direction: W
NE	08/30/2014	James McMorran	11:32	Temp: 92 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: W
NE	08/30/2014	James McMorran	12:32	Temp: 95 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: W
SW	08/30/2014	James McMorran	13:14	Temp: 95 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: W

Point Count Station	Date	Survey Personnel	Time	Weather Conditions
SW	08/30/2014	James McMorran	14:06	Temp: 96 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: W
SW	08/30/2014	James McMorran	14:59	Temp: 93 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 3 mph, Wind Direction: W
SW	08/30/2014	James McMorran	15:59	Temp: 92 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 5 mph, Wind Direction: W
SW	08/30/2014	James McMorran	16:51	Temp: 91 °F, 0% Cloud Cover, Visibility: good, Precipitation: none, Avg. Wind Speed: 4 mph, Wind Direction: W

APPENDIX D

FIELD DATA

Appendix D – Field Data

Observer	Date	Point Count Station	Common Name	Scientific Name	Age	Sex	Number	Additional Notes	Offset Distance (meters)	Offset Bearing	Flight Direction	Activity	Minutes Of Observation	Auditory Observation	ID Tag
James McMorran	9/26/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Unknown	Unknown	4	CATCHING THERMAL _ LIKELY PREVIOUS RECORDED BIRDS IN ONEGROUP	800	360	NE	Circle Soaring	2	N	I
James McMorran	9/26/2013	SW	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	2	NO FLIGHT DIRECTION PERCHED BOTH TOOK SHORT FLIGHT AND RETURNED TO PERCH	2000	60	N	Perched	10	N	A
James McMorran	9/26/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	2		800	140	SW	Circle Soaring	4	N	C
James McMorran	9/26/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Unknown	Unknown	2		900	360	NE	Circle Soaring	2	N	F
James McMorran	9/26/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Sub-Adult	Unknown	2	ATTEMPTING TO CATCH THERMAL	700	90	NE	Circle Soaring	2	N	K
James McMorran	9/26/2013	SW	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	PREY DIVE NEAR AT FARM NEAR HOUSE ON HILL (one of the two indivs.)	2000	40	N	Direct Flight;Prey Diving/Swooping	1	N	A
James McMorran	9/26/2013	SW	American Kestrel	<i>Falco sparverius</i>	Adult	Male	1		150	320	SW	Direct Flight;Perched	2	N	B
James McMorran	9/26/2013	SW	golden eagle	<i>Aquila chrysaetos</i>	Unknown	Unknown	1	DIDNT SEE LEAVE PERCH :LAST SEEN AT 1158- ITS POSSIBLE IT JUST MOVED TO DIFFERENT BRANCH AND NOW OBSCURED	700	20	N	Perched	160	N	D
James McMorran	9/26/2013	SW	American Kestrel	<i>Falco sparverius</i>	Adult	Male	1		250	130	SW	Prey Diving/Swooping	1	N	E
James McMorran	9/26/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1		200	170	S	Kiting;Meandering	2	N	G
James McMorran	9/26/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Sub-Adult	Unknown	1		700	360	SW	Meandering	2	N	H
James McMorran	9/26/2013	SW	Cooper's hawk	<i>Accipiter cooperii</i>	Unknown	Unknown	1		500	140	SW	Direct Flight;Meandering	2	N	J
James McMorran	9/26/2013	NE	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	2		100	280	W	Kiting;Meandering	5	N	C
James McMorran	9/26/2013	NE	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	2	USING WIND AND HILLSIDE TO FORAGE	700	45	W	Circle Soaring;Kiting;Meandering	15	N	E
James McMorran	9/26/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	2		1500	250	SE	Direct Flight;Perched	20	N	F
James McMorran	9/26/2013	NE	golden eagle	<i>Aquila chrysaetos</i>	Sub-Adult	Unknown	1	HARRASSED BY CORA AND RTHA FOR AT LEAST 20 MINUTES OF OBS	600	45	W	Circle Soaring;Direct Flight;Kiting;Meandering	25	N	G
James McMorran	9/26/2013	NE	golden eagle	<i>Aquila chrysaetos</i>	Sub-Adult	Unknown	1	BEING MOBBED BY CORA AND RTHA	100	250	S	Circle Soaring;Meandering	7	N	B
James McMorran	9/26/2013	NE	American Kestrel	<i>Falco sparverius</i>	Unknown	Female	1		40	280	NE	Hovering;Kiting	1	N	D
James McMorran	9/26/2013	NE	American Kestrel	<i>Falco sparverius</i>	Unknown	Female	1		50	200	SW	Direct Flight;Hovering	1	N	A
James McMorran	10/29/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Male and Female	2		1800	270	Not Applicable	Perched	20	N	F_A
James McMorran	10/29/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	PERCHED IN OAK WITH SECOND BIRD SW OF POND: FLUSHED WATERFOWL AND SHOREBIRDS FLT TI ME 2 MI N	500	260	W	Direct Flight;Perched	2	N	A
James McMorran	10/29/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	FLEW NORTH_HARRASSED BY CORA AND RTHA_THEN FLEW BACK SOUTH TOPERCH WHERE THE OTHER BAEA REMAINED	1800	270	N	Direct Flight	2	N	A
James McMorran	10/29/2013	NE	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Sub-Adult	Unknown	1	SAME NOTES AS "J"!	1200	350	N	Circle Soaring	1	N	K
James McMorran	10/29/2013	NE	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult/Juvenile	Unknown	1	CATCHING THERMAL:NOT MAPPED	1000	270	SE	Circle Soaring	5	N	J
James McMorran	10/29/2013	NE	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1	NOT MAPPED	400	45	N	Circle Soaring	1	N	I
James McMorran	10/29/2013	NE	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1		400	180	SW	Circle Soaring;Direct Flight	1	N	H
James McMorran	10/29/2013	NE	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1		1400	250	Not Applicable	Perched	30	N	D
James McMorran	10/29/2013	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1		1000	225	Not Applicable	Perched	20	N	E
James McMorran	10/29/2013	NE	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult/Juvenile	Unknown	1		600	45	Not Applicable	Perched	2	N	C
James McMorran	10/29/2013	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1		1300	270	Not Applicable	Perched	80	N	B
James McMorran	10/29/2013	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1	FLT TIME 1-2 MINUTE	400	315	W	Direct Flight	5	N	G
James McMorran	10/29/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1		500	250	Not Applicable	Perched	80	N	A
James McMorran	10/29/2013	SW	Red-shouldered Hawk	<i>Buteo lineatus</i>	Unknown	Unknown	1	NOT MAPPED	800	340	Not Applicable		1	Y	G
James McMorran	10/29/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1		400	360	SW	Prey Diving/Swooping	1	N	H
James McMorran	10/29/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1		1200	60	W	Direct Flight;Prey Diving/Swooping	1	N	F
James McMorran	10/29/2013	SW	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1		900	110	W	Hovering;Prey Diving/Swooping	2	N	E
James McMorran	10/29/2013	SW	American Kestrel	<i>Falco sparverius</i>	Unknown	Female	1		200	315	SW	Direct Flight;Perched	1	N	D
James McMorran	10/29/2013	SW	American peregrine falcon	<i>Falco peregrinus anatum</i>	Juvenile	Unknown	1	VERY FAST PREY STOOP; UNSUCCESSFUL. CAUGHT THERMAL AND EVENTUALLY OUT OF SIGHT	900	90	SW	Circle Soaring;Direct Flight;Prey Diving/Swooping	5	N	C
James McMorran	10/29/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Unknown	Unknown	1		450	160	Not Applicable	Perched	1	N	I
James McMorran	10/29/2013	SW	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	VERY HIGH	2000	90	N	Circle Soaring	8	N	B
James McMorran	10/29/2013	SW	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1		1200	80	Not Applicable	Perched	5	N	J
James McMorran	10/29/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1		350	100	NE	Circle Soaring	5	N	A
Jeep Pagel	11/18/2013	SW	American Kestrel	<i>Falco sparverius</i>	Adult	Male	1	FORAGING IN MEADOW: VERY LIGHT COLORED MALE	100	360	Not Applicable	Hovering;Meandering;Prey Diving/Swooping;Perched	1	N	B
Jeep Pagel	11/18/2013	SW	Large Falcons	<i>see notes</i>	Unknown	Male and Female	2	LARGE FALCONS:POSSIBLY PEFA? FLYING TO SE:FLAPPING FLIGHT	2000	100	SE	Direct Flight	2	N	L
Jeep Pagel	11/18/2013	SW	unknown	<i>see notes</i>	Unknown	Unknown	2	EAGLE SP. PROB GOEA VERY FAR	2000	60	E	Circle Soaring;Meandering	5	N	J
Jeep Pagel	11/18/2013	SW	northern harrier	<i>Circus cyaneus</i>	Adult/Juvenile	Male	1		2200	345	SE	Circle Soaring;Direct Flight	1	N	E
Jeep Pagel	11/18/2013	SW	prairie falcon	<i>Falco mexicanus</i>	Adult	Unknown	1		800	25	Not Applicable	Prey Diving/Swooping;Perched	5	N	D
Jeep Pagel	11/18/2013	SW	golden eagle	<i>Aquila chrysaetos</i>	Unknown	Unknown	1	NOT MAPPED: GOEA PERCHEDSOUTH OE END OF RUSWAYPERCHED	2400	90	Not Applicable	Perched	5	N	N
Jeep Pagel	11/18/2013	SW	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	NOT MAPPED; FLYING IN THERMAL WITH FERRUGINOUS HAWK: ABOVE HOUSE OBSERVATION POST	2400	45	E	Circle Soaring	5	N	M
Jeep Pagel	11/18/2013	SW	golden eagle	<i>Aquila chrysaetos</i>	Sub-Adult	Unknown	1	PERCHED: RTHA BUMPED IT OFF GROUND: FLEW TO EAST	400	30	E	Circle Soaring;Direct Flight;Meandering;Perched	5	N	K
Jeep Pagel	11/18/2013	SW	golden eagle	<i>Aquila chrysaetos</i>	Adult	Unknown	1	NOT MAPPED; FEW OVERRIDGELINE: FORAGING>MEANDERING	2000	270	E	Circle Soaring;Meandering	5	N	I
Jeep Pagel	11/18/2013	SW	Ferruginous Hawk	<i>Buteo regalis</i>	Unknown	Unknown	1		1600	45	E	Circle Soaring	5	N	H
Jeep Pagel	11/18/2013	SW	golden eagle	<i>Aquila chrysaetos</i>	Adult	Unknown	1	USING THERMALS WITH RTHA (N=2)	1200	345	N	Circle Soaring	5	N	F
Jeep Pagel	11/18/2013	SW	eagle sp.	<i>see notes</i>	Unknown	Unknown	1	UNKNOWN EAGLE SP LOW LEVEL FLIGHT~1M ABOVE GROUND	1600	50	SW	Direct Flight;Other (explain in notes)	1	N	C
Jeep Pagel	11/18/2013	SW	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	FLYING TO NORTH AFTERRINGINGUP TO 400M AGL	800	50	N	Circle Soaring;Direct Flight	15	N	G
Jeep Pagel	11/18/2013	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Unknown	Unknown	1	PERCHEDIN EUCALYPTUS	500	250	Not Applicable	Perched	5	N	D
Jeep Pagel	11/18/2013	NE	Cooper's hawk	<i>Accipiter cooperii</i>	Unknown	Unknown	1	THERMAL IN FRONT OF OP: BETWEEN BAEA NEST AND OP	200	270	E	Circle Soaring	5	N	C
Jeep Pagel	11/18/2013	NE	sharp-shinned hawk	<i>Accipiter striatus</i>	Unknown	Unknown	1	FirstObserved diving on starlings	1200	320	NE	Direct Flight;Prey Diving/Swooping	5	N	E
Jeep Pagel	11/18/2013	NE	golden eagle	<i>Aquila chrysaetos</i>	Sub-Adult	Unknown	1	Flew ground level,then up to 30m agl,then toward goea nest	1300	360	W	Direct Flight;Meandering	3	N	F
Jeep Pagel	11/18/2013	NE	prairie falcon	<i>Falco mexicanus</i>	Sub-Adult	Unknown	1	Perched in eucalyptus, stooped on killdeer; missed	500	250	SW	Prey Diving/Swooping;Perched	10	N	G
Jeep Pagel	11/18/2013	NE	northern harrier	<i>Circus cyaneus</i>	Adult	Female	1		1000	270	N	Meandering	1	N	H
Jeep Pagel	11/18/2013	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Unknown	Unknown	1	WAS SEEN BY JIMMY ON WESTSIDE OF DIRT ENTRY ROAD WHEN WE DROVE UP: PERCHED ON IRRIGATION SPRINKKER	1000	270	Not Applicable	Perched	5	N	A
Jeep Pagel	11/18/2013	NE	prairie falcon	<i>Falco mexicanus</i>	Unknown	Unknown	1	INCIDENTAL OBSV: OBSERVED ON DRIVE TO OBSERVATIONPOINT JUST BELOW HOUSE~JUST PRIOR TO START OF SURVEY	100	300	S	Circle Soaring;Direct Flight	1	N	B
James McMorran	11/26/2013	SW	American Kestrel	<i>Falco sparverius</i>	Adult	Male	1		100	315	Not Applicable	Direct Flight;Prey Diving/Swooping;Perched	10	N	A
James McMorran	11/26/2013	SW	Ferruginous Hawk	<i>Buteo regalis</i>	Sub-Adult	Unknown	1		1200	350	SW	Circle Soaring	2	N	C
James McMorran	11/26/2013	SW	Cooper's hawk	<i>Accipiter cooperii</i>	Unknown	Unknown	1		10	360	S	Direct Flight	1	N	H
James McMorran	11/26/2013	SW	golden eagle	<i>Aquila chrysaetos</i>	Adult	Unknown	1		1700	340	SW	Kiting;Meandering	1	N	G
James McMorran	11/26/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1	DARK MORPH	800	340	SW	Hovering;Kiting;Meandering	5	N	F
James McMorran	11/26/2013	SW	American Kestrel	<i>Falco sparverius</i>	Adult	Male and Female	1	TOGETHER IN TREE	100	340	Not Applicable	Hovering;Perched	15	N	A & B

Observer	Date	Point Count Station	Common Name	Scientific Name	Age	Sex	Number	Additional Notes	Offset Distance (meters)	Offset Bearing	Flight Direction	Activity	Minutes Of Observation	Auditory Observation	ID Tag
James McMorran	11/26/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1		1800	350	Not Applicable	Kiting	3	N	E
James McMorran	11/26/2013	SW	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1	PERCHED IN TREE THE N SHORT FLIGHT AND PERCHED ON ROCK	700	45	SE	Direct Flight;Perched	5	N	D
James McMorran	11/26/2013	SW	American Kestrel	<i>Falco sparverius</i>	Unknown	Female	1	ON ROCK	100	90	Not Applicable	Perched	1	N	B
James McMorran	11/26/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1		200	270	Not Applicable	Kiting;Meandering;Prey Diving/Swooping	2	N	I
James McMorran	11/26/2013	NE	prairie falcon	<i>Falco mexicanus</i>	Unknown	Unknown	2	BOTH PERCHED ON ROCK TOGETHER-PHOTO	300	170	Not Applicable	Perched	10	N	C
James McMorran	11/26/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1		1600	270	Not Applicable	Perched	10	N	A
James McMorran	11/26/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	FLEW WITH MATE TO ROOST TREE	1600	270	SE	Direct Flight;Perched	60	N	B
James McMorran	11/26/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	FLEW TO ROOST TREE	1600	270	E	Direct Flight;Perched	60	N	A
James McMorran	11/26/2013	NE	American peregrine falcon	<i>Falco peregrinus anatum</i>	Adult	Unknown	1		200	135	SW	Direct Flight	1	N	D
James McMorran	11/26/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Sub-Adult	Unknown	1	BOT H A/B PERCHED ON GROUND AT POND	1650	270	Not Applicable	Perched	10	N	B
James McMorran	11/26/2013	NE	sharp-shinned hawk	<i>Accipiter striatus</i>	Adult	Male	1		100	90	Not Applicable	Direct Flight;Perched	1	N	E
Jeep Pagel	12/13/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Male and Female	5	\courtship, territorial defense	500	20	E	Other (explain in notes)	10	N	B
Jeep Pagel	12/13/2013	SW	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	Near nest	2400	60	Not Applicable	Perched	20	N	C
Jeep Pagel	12/13/2013	SW	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	Second eagle on nest	2200	60	Not Applicable	Perched	1	N	D
Jeep Pagel	12/13/2013	SW	American peregrine falcon	<i>Falco peregrinus anatum</i>	Adult	Unknown	1		1600	45	Not Applicable	Perched	1	N	E
Jeep Pagel	12/13/2013	SW	golden eagle	<i>Aquila chrysaetos</i>	Unknown	Unknown	1	Too far to be sure of age class	2800	80	Not Applicable	Perched	10	N	F
Jeep Pagel	12/13/2013	SW	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1	Second fehA soarind in thermal	2100	50	W	Circle Soaring	10	N	I
Jeep Pagel	12/13/2013	SW	prairie falcon	<i>Falco mexicanus</i>	Unknown	Unknown	1	geesE coming in, ca 550 or so	800	45	SW	Prey Diving/Swooping	1	N	G
Jeep Pagel	12/13/2013	SW	merlin	<i>Falco columbarius</i>	Unknown	Unknown	1		20	50	S	Prey Diving/Swooping	1	N	A
Jeep Pagel	12/13/2013	SW	Ferruginous Hawk	<i>Buteo regalis</i>	Unknown	Unknown	1		2400	60	W	Circle Soaring	5	N	H
Jeep Pagel	12/13/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	From ne, to perch	700	225	NE	Direct Flight;Perched	5	N	C
Jeep Pagel	12/13/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	Baea flushed ehen car went undertree . Went back totree when car went 200 m.	700	225	Not Applicable	Perched;Other (explain in notes)	1	N	D
Jeep Pagel	12/13/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	From perch, to perch on rock	700	180	E	Direct Flight;Perched	2	N	F
Jeep Pagel	12/13/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	Baea back to perch tree.	700	180	W	Direct Flight;Perched	1	N	G
Jeep Pagel	12/13/2013	NE	American Kestrel	<i>Falco sparverius</i>	Adult	Male	1		30	180	SW	Prey Diving/Swooping	5	N	B
Jeep Pagel	12/13/2013	SW	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1	Third feha based on plumage	2200	60	Not Applicable	Circle Soaring	10	N	J
Jeep Pagel	12/13/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	Baea still perched. Amke, male and female around op. Ubiquitous rtha also perched; nothing flying. Grassland still dry and brown. Rtha did several courtship flights and mutual perches.	700	225	Not Applicable	Perched	120	N	F
Jeep Pagel	12/13/2013	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1	From eucalyptus tree	600	260	Not Applicable	Meandering	1	N	A
James McMorran	12/30/2013	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Male and Female	2		1800	265	Not Applicable	Perched	30	N	E
James McMorran	12/30/2013	NE	American Kestrel	<i>Falco sparverius</i>	Unknown	Male	1		300	330	E	Direct Flight	1	N	H
James McMorran	12/30/2013	NE	northern harrier	<i>Circus cyaneus</i>	Unknown	Female	1		700	270	E	Circle Soaring;Meandering	4	N	I
James McMorran	12/30/2013	NE	golden eagle	<i>Aquila chrysaetos</i>	Sub-Adult	Unknown	1	VERY HIGH IN THERMAL: PHOTO	900	30	E	Circle Soaring	2	N	G
James McMorran	12/30/2013	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1	Catching thermal	600	190	S	Circle Soaring	1	N	F
James McMorran	12/30/2013	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Juvenile	Unknown	1		400	180	SW	Direct Flight	1	N	D
James McMorran	12/30/2013	NE	merlin	<i>Falco columbarius</i>	Adult	Male	1	MALE PRAIRIE!! RICHARSONI	10	360	SW	Direct Flight	1	N	C
James McMorran	12/30/2013	NE	prairie falcon	<i>Falco mexicanus</i>	Unknown	Unknown	1	FIRST PERCHED: THEN HUNTI G	600	230	SW	Direct Flight;Perched	15	N	B
James McMorran	12/30/2013	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1		1100	270	Not Applicable	Perched	60	N	A
James McMorran	12/30/2013	SW	merlin	<i>Falco columbarius</i>	Unknown	Female	1	BROWN-BACK __IMM/FEMALE	900	60	W	Direct Flight;Perched	1	N	B
James McMorran	12/30/2013	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Unknown	Unknown	1	PERCHED FOR LONG TIME	300	315	Not Applicable	Perched	150	N	A
Jeep Pagel	1/17/2014	SW	American peregrine falcon	<i>Falco peregrinus anatum</i>	Adult	Male and Female	1		500	1	W	Direct Flight	1	N	E
Jeep Pagel	1/17/2014	SW	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	On nest	2000	60	Not Applicable	Perched	1	N	A
Jeep Pagel	1/17/2014	SW	prairie falcon	<i>Falco mexicanus</i>	Adult	Female	1		1200	90	W	Direct Flight	1	N	B
Jeep Pagel	1/17/2014	SW	American Kestrel	<i>Falco sparverius</i>	Adult	Female	1		800	50	S	Prey Diving/Swooping	1	N	C
Jeep Pagel	1/17/2014	SW	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult/Juvenile	Unknown	1		400	360	SW	Circle Soaring;Direct Flight;Meandering	5	N	D
Jeep Pagel	1/17/2014	NE	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Male and Female	6	Not noted on map most at SW corner of reserve. . At least 8 diff rtha obsEived during day. Only adults, which seems odd.	1600	260	Not Applicable	Circle Soaring;Direct Flight;Meandering	1	N	A
James McMorran	1/31/2014	SW	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult/Juvenile	Male and Female	2	ON ROOST TREE	2000	80	Not Applicable	Perched	50	N	B
James McMorran	1/31/2014	SW	American Kestrel	<i>Falco sparverius</i>	Adult	Male and Female	2	Watched copulation	400	350	Not Applicable	Perched;Other (explain in notes)	10	N	A
James McMorran	1/31/2014	SW	bald eagle	<i>Haliaeetus leucocephalus</i>	Sub-Adult	Unknown	1	NEW EAGLE! SUB_ADULTBAEA	800	45	SW	Direct Flight;Perched	25	N	C
James McMorran	1/31/2014	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1		600	10	SE	Circle Soaring;Direct Flight	5	N	D
James McMorran	1/31/2014	NE	prairie falcon	<i>Falco mexicanus</i>	Unknown	Male and Female	2	FLYING TOGETHER	1200	350	E	Direct Flight	2	N	F
James McMorran	1/31/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	FLEW FROM TREE WITH MATE_DIRECT FLIGHT FLUSHED RTHA WITH PREY_BAEA STOLE PREY FROM RTHA_BAEA FLEW AWAY THENPERJHED ON ROCK AND ATE	2000	220	E	Direct Flight;Prey Diving/Swooping;Perched	1	N	A
James McMorran	1/31/2014	NE	American Kestrel	<i>Falco sparverius</i>	Adult	Male and Female	1		20	270	S	Direct Flight;Meandering	1	N	E
James McMorran	1/31/2014	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1		500	180	NE	Direct Flight;Meandering;Perched	3	N	G
James McMorran	1/31/2014	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1	DIVE BOMBED OTHER FEHA "C"	700	50	SW	Circle Soaring;Direct Flight;Meandering	2	N	D
James McMorran	1/31/2014	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1		200	200	NE	Circle Soaring;Direct Flight;Meandering	4	N	C
James McMorran	1/31/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1		2000	265	Not Applicable	Perched	100	N	B
James McMorran	1/31/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1		700	220	Not Applicable	Perched	60	N	A
James McMorran	1/31/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	FLEW FROM ORIGINAL POI NT AND PERCHED WITH MATE	2000	260	SE	Direct Flight;Perched	120	N	B
Jeep Pagel	2/11/2014	SW	Ferruginous Hawk	<i>Buteo regalis</i>	Adult/Juvenile	Unknown	2	Thermals started around 1035 h. One feha of the two light phase.	1200	70	W	Circle Soaring;Meandering	10	N	B
Jeep Pagel	2/11/2014	SW	Ferruginous Hawk	<i>Buteo regalis</i>	Unknown	Unknown	1		2200	10	NE	Circle Soaring	5	N	C
Jeep Pagel	2/11/2014	SW	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	Baea going after waterfowl	1200	50	Not Applicable	Prey Diving/Swooping	1	N	A
Jeep Pagel	2/11/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Male and Female	2	Perched together.	700	225	Not Applicable	Perched	10	N	A
Jeep Pagel	2/11/2014	NE	prairie falcon	<i>Falco mexicanus</i>	Unknown	Unknown	1	Near pond. Flushed starlings	1200	270	W	Prey Diving/Swooping;Perched	1	N	D
Jeep Pagel	2/11/2014	NE	Rough-legged Hawk	<i>Buteo lagopus</i>	Unknown	Unknown	1		200	180	Not Applicable	Meandering	2	N	E
Jeep Pagel	2/11/2014	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1		1600	90	Not Applicable	Circle Soaring	1	N	C
Jeep Pagel	2/11/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	Bumped off of tree by a jogger wtf flew to ground, attempted to get ground squirrel	1200	110	NE	Direct Flight;Other (explain in notes)	10	N	B
Jeep Pagel	2/11/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	Baea stole partially rendered squirrel from rtha. both birds unbanded both legs. Jogger still present.	400	140	E	Prey Diving/Swooping;Other (explain in notes)	5	N	F
James McMorran	2/25/2014	NE	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Unknown	Unknown	4	4 INDVS CATCHING EARLY THERMAL	900	80	SW	Circle Soaring;Meandering	1	N	D
James McMorran	2/25/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Male and Female	2	BOTH FLEW TO NEST __ONE IN NEST AT TIMES: THE OTHER PERCHED ON RIM	500	230	Not Applicable	Perched	5	N	A & B
James McMorran	2/25/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Male	1	Returned to tree	550	230	Not Applicable	Perched	16	N	A
James McMorran	2/25/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Female	1	RETURNED TO TREE WITH MATE	550	230	Not Applicable	Perched	10	N	B
James McMorran	2/25/2014	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Unknown	Unknown	1		650	250	S	Kiting;Meandering;Perched	2	N	E
James McMorran	2/25/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Male	1	I N TREE NEXT TO NEST TREE WIT H MATE: THEN FLEW OVER AND LANDED ON NEST--AT 0945 RANCH VEHICL DROVE UNDER TREE AND FLUSHED BOTH__THEY CAUGHT THERMAL AT THAT POINT AND OUT OF SIGHT	500	230	Not Applicable	Perched	140	N	A
James McMorran	2/25/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Female	1	SAME NOTES AS TAG "A"	500	230	Not Applicable	Perched	60	N	B
James McMorran	2/25/2014	NE	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1		80	45	E	Circle Soaring	1	N	C
James McMorran	2/25/2014	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Unknown	Unknown	2	NOT MAPPED	1800	90	SW	Circle Soaring;Meandering	2	N	A
James McMorran	2/25/2014	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Male and Female	2	NOT MAPPED	600	130	SE	Circle Soaring;Meandering	1	N	B
James McMorran	2/25/2014	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1	DARK MORPH; NOT MAPPED	1000	20	E	Circle Soaring;Direct Flight;Meandering	5	N	C
Jeep Pagel	3/14/2014	SW	Red-shouldered Hawk	<i>Buteo lineatus</i>	Adult	Male and Female	2	Courtship	400	180	S	Other (explain in notes)	10	Y	A

Observer	Date	Point Count Station	Common Name	Scientific Name	Age	Sex	Number	Additional Notes	Offset Distance (meters)	Offset Bearing	Flight Direction	Activity	Minutes Of Observation	Auditory Observation	ID Tag
Jeep Pagel	3/14/2014	SW	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Male and Female	2	Adult female incubating eggs adult male in field on ground near road. Bumping rtha off prey	1000	60	Not Applicable	Perched;Other (explain in notes)	110	N	B
Jeep Pagel	3/14/2014	SW	Red-shouldered Hawk	<i>Buteo lineatus</i>	Adult	Unknown	1	Over field	800	350	SE	Meandering	1	N	C
Jeep Pagel	3/14/2014	NE	golden eagle	<i>Aquila chrysaetos</i>	Adult	Unknown	2	Dual soaring above nest cliff	2400	300	Not Applicable	Circle Soaring	1	N	E
Jeep Pagel	3/14/2014	NE	Ferruginous Hawk	<i>Buteo regalis</i>	Adult	Unknown	1	At end of runway, going after ground squirrel	500	210	S	Direct Flight;Hovering;Meandering;Prey Diving/Swooping;Perched	1	N	F
James McMorran	3/25/2014	SW	American Kestrel	<i>Falco sparverius</i>	Adult	Male and Female	2	PAIR	400	340	Not Applicable	Perched	120	N	A
James McMorran	3/25/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult/Juvenile	Male	1	IN TREE	700	225	Not Applicable	Perched	240	N	A
James McMorran	3/25/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Female	1	SITTING ON EGGS IN NEST	500	235	Not Applicable	Perched	240	N	B
James McMorran	3/25/2014	NE	merlin	<i>Falco columbarius</i>	Unknown	Female	1		10	45	SW	Direct Flight;Prey Diving/Swooping;Perched	5	N	C
JEEP PAGEL	4/15/2014	SW	Cooper's Hawk	<i>Accipiter cooperii</i>	Unknown	Female	1	CATCHING THERMAL WITH RTHA	850	40	Not Applicable	Other (explain in notes)	1	N	A
JEEP PAGEL	4/15/2014	SW	Golden Eagle	<i>Aquila chrysaetos</i>	Unknown	Unknown	1		2400	320	N	Meandering	1	N	B
JEEP PAGEL	4/15/2014	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Female	1		800	340	SW	Direct Flight;Meandering	1	N	D
JEEP PAGEL	4/15/2014	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1		450	220	SW	Direct Flight	1	N	C
JEEP PAGEL	4/15/2014	NE	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Adult	Male and Female	2	INCUBATING _ MALLE ON PERCH TREE	500	240	Not Applicable	Perched	1	N	A
JEEP PAGEL	4/15/2014	NE	Cooper's Hawk	<i>Accipiter cooperii</i>	Unknown	Male	1		800	18	N	Circle Soaring;Meandering	1	N	B
JEEP PAGEL	4/15/2014	NE	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Adult/Juvenile	Female	1	TYPE IN NOTES FROM DATASHEET	600	225	E		1	N	C
James McMorran	4/30/2014	NE	American Kestrel	<i>Falco sparverius</i>	Adult	Female	1		20	340	SE	Meandering	2	N	C
James McMorran	4/30/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Male	1		500	230	Not Applicable	Perched	40	N	A
James McMorran	4/30/2014	NE	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult/Juvenile	Unknown	1		350	350	NE	Meandering	1	N	D
James McMorran	4/30/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Female	1	SITTING TIGHT ON NEST: VERY WINDY	500	230	Not Applicable	Perched;Other (explain in notes)	1	N	B
James McMorran	4/30/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Male	1		500	250	W	Circle Soaring	3	N	A
Jeep pagel	5/16/2014	NE	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Adult	Female	1	PERCHED AT NEST WITH OTHER ADULT ANDONE NESTLING	600	225	Not Applicable	Perched	1	N	B
Jeep pagel	5/16/2014	NE	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Adult	Male	1	PERCHED AT NEST	600	225	Not Applicable	Perched	1	N	A
James McMorran	5/28/2014	SW	American Kestrel	<i>Falco sparverius</i>	Adult	Female	1		100	340	Not Applicable	Hovering	1	N	A
James McMorran	5/28/2014	SW	Red-shouldered Hawk	<i>Buteo lineatus</i>	Unknown	Unknown	1		800	340	SW	Circle Soaring	1	N	B
James McMorran	5/28/2014	SW	Cooper's hawk	<i>Accipiter cooperii</i>	Unknown	Unknown	1		700	70	S	Circle Soaring;Meandering	1	N	C
James McMorran	5/28/2014	SW	prairie falcon	<i>Falco mexicanus</i>	Unknown	Unknown	1		1600	360	SE	Direct Flight	1	N	D
James McMorran	5/28/2014	SW	American Kestrel	<i>Falco sparverius</i>	Adult	Male	1		600	135	SW	Direct Flight;Hovering	1	N	E
James McMorran	5/28/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult/Juvenile	Unknown	2	WITH NESTLING	600	240	Not Applicable	Perched	240	N	A
James McMorran	5/28/2014	NE	prairie falcon	<i>Falco mexicanus</i>	Unknown	Unknown	1		100	135	SW	Circle Soaring;Direct Flight	1	N	B
JEEP PAGEL	5/28/2014	SW	golden eagle	<i>Aquila chrysaetos</i>	Sub-Adult	Unknown	1		1800	95	SW	Circle Soaring;Meandering	5	N	A
JEEP PAGEL	5/28/2014	SW	golden eagle	<i>Aquila chrysaetos</i>	Adult	Unknown	1		1700	18	S	Circle Soaring;Meandering	2	N	B
Jeep Pagel	6/13/2014	SW	Golden Eagle	<i>Aquila chrysaetos</i>	Adult	Unknown	1		1200	135	N	Circle Soaring	15	N	A
Jeep Pagel	6/13/2014	SW	Prairie Falcon	<i>Falco mexicanus</i>	Unknown	Unknown	1		700	40	Not Applicable	Perched	5	N	B
Jeep Pagel	6/13/2014	NE	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Adult	Male	1	FLEW IN WITH PREY ITEM	1300	125	W	Direct Flight;Perched;Other (explain in notes)	20	N	A
Jeep Pagel	6/13/2014	NE	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Adult/Juvenile	Unknown	1	ON NEAR NEST	500	230	Not Applicable	Perched	240	N	B
James McMorran	6/25/2014	NE	American Kestrel	<i>Falco sparverius</i>	Adult/Juvenile	Male and Female	4	FAMILY GROUP	700	225	Not Applicable	Perched	10	N	C
James McMorran	6/25/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Juvenile	Female	1	PERCHED AT NEST	500	240	Not Applicable	Perched	240	N	A
James McMorran	6/25/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1		700	225	Not Applicable	Perched	240	N	B
James McMorran	6/25/2014	NE	American Kestrel	<i>Falco sparverius</i>	Unknown	Female	1		100	225	E	Direct Flight;Prey Diving/Swooping	1	N	D
James McMorran	6/25/2014	SW	Red-shouldered Hawk	<i>Buteo lineatus</i>	Unknown	Unknown	1	HEARD ONLY NOT MAPPED	900	350	Not Applicable	Other (explain in notes)	1	Y	A
Jeep Pagel	7/16/2014	SW	Golden Eagle	<i>Aquila chrysaetos</i>	Unknown	Unknown	1	LOW LEVEL FLIGHT	1900	50	S	Direct Flight	5	N	A
Jeep Pagel	7/16/2014	SW	American Peregrine Falcon	<i>Falco peregrinus anatum</i>	Juvenile	Male	1	TRIED KILLING GRRO	600	65	SW	Direct Flight;Prey Diving/Swooping	3	N	B
Jeep Pagel	7/16/2014	SW	Prairie Falcon	<i>Falco mexicanus</i>	Adult/Juvenile	Unknown	1		400	45	SW	Kiting	3	N	C
Jeep Pagel	7/16/2014	NE	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Adult/Juvenile	Unknown	3		500	230	Not Applicable	Perched	90	N	B
Jeep Pagel	7/16/2014	NE	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Adult	Female	1		400	225	W	Circle Soaring;Meandering;Prey Diving/Swooping	8	N	A
James McMorran	7/29/2014	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1	NO REAL FLIGHT DIRECTION: MEANDERING LOW OVER LANDSCAPE	600	20	Not Applicable	Meandering	2	N	B
James McMorran	7/29/2014	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1		600	190	NE	Circle Soaring;Meandering	5	N	B
James McMorran	7/29/2014	SW	Red-tailed Hawk	<i>Buteo jamaicensis</i>	Adult	Unknown	1	DARK MORPH	600	80	E	Circle Soaring;Meandering	3	N	A
James McMorran	7/29/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Juvenile	Female	1	ON AND WITHIN NEST	600	235	Not Applicable	Perched	90	N	A
James McMorran	7/29/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1		700	225	Not Applicable	Perched	20	N	B
James McMorran	7/29/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	Other = direct soar---flew back sw to mountain with antenna and eadar on top	700	225	E	Circle Soaring;Meandering;Other (explain in notes)	10	N	B
James McMorran	7/29/2014	NE	American Kestrel	<i>Falco sparverius</i>	Adult	Female	1		900	300	E	Circle Soaring;Direct Flight;Kiting;Meandering	2	N	D
James McMorran	7/29/2014	NE	bald eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	NEAR NEST BY JUV: JUV CAN VE HEARD BEGGING CALLING	600	235	Not Applicable	Perched	60	N	C
James McMorran	8/30/2014	NE	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1		400	330	SW	Circle Soaring;Direct Flight;Meandering	10	N	A
James McMorran	8/30/2014	NE	Red-shouldered Hawk	<i>Buteo lineatus</i>	Adult	Unknown	1	OVER OAKS WERE MOST PAST DETECTIONS OCCUR	2200	270	Not Applicable	Circle Soaring;Meandering	1	N	D
James McMorran	8/30/2014	NE	Prairie Falcon	<i>Falco mexicanus</i>	Unknown	Unknown	1	VE Y LOW AND FAST FLIGHT	600	225	N	Direct Flight	1	N	C
James McMorran	8/30/2014	NE	Cooper's Hawk	<i>Accipiter cooperii</i>	Unknown	Unknown	1	CATCHING THERMAL	900	180	SW	Circle Soaring	2	N	B
James McMorran	8/30/2014	NE	Bald Eagle	<i>Haliaeetus leucocephalus</i>	Adult	Unknown	1	PERCHED IN EUCS EAST OF HOUSE: THEN FLEW AND PERCHED IN DIFFERENT EUCS TO SW	70	90	SW	Direct Flight;Perched	20	N	A
James McMorran	8/30/2014	NE	Golden Eagle	<i>Aquila chrysaetos</i>	Adult	Unknown	1	ADULT OR NEAR ADULT: OBVIOUSLY FORAGING	4000	300	SE	Circle Soaring;Direct Flight;Meandering	20	N	E

APPENDIX E

FLIGHT PATHS OF EAGLES AND SPECIAL-STATUS RAPTORS, AND NON-SPECIAL-STATUS RAPTORS

AECOM

Northwest Survey Point

Survey Section NW

Surveyor Name JMC

Survey # 10612

Date 9/26/13

GPS Unit # _____ Map # _____

Orange County
Riverside County
San Diego County
Imperial County
Mexico

Legend

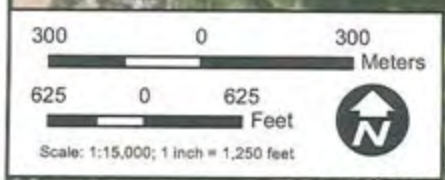
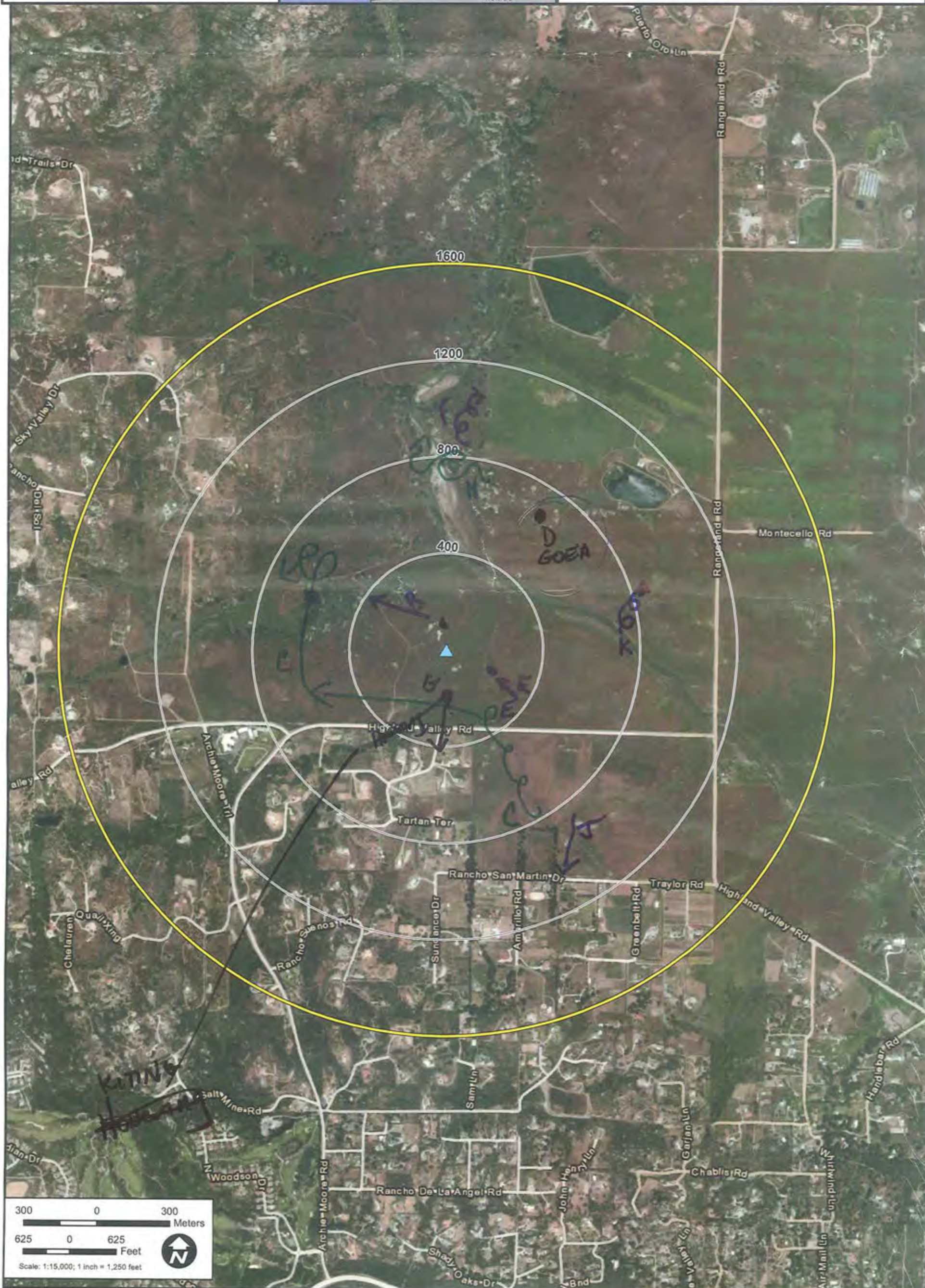
Survey Points

400; 800; 1200 Meter Buffer

1600 Meter Buffer

World Transportation

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983
Disclaimer: This map is for field use purposes only.



Northeast Survey Point

Survey Section NE

Surveyor Name JMC

Survey # 1912

Date 9/26/13

GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)

Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.

Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



Northeast Survey Point

Survey Section NW

Surveyor Name JMC

Survey # 1 of 12

Date 9/26/13

GPS Unit # _____ Map # _____

Orange County

Riverside County

San Diego County

Imperial County

Mexico



Legend

 Survey Points

 3 mile buffers

 World Transportation

BAEA

800 0 800 Meters

2,000 0 2,000 Feet

Scale: 1:48,000; 1 inch = 4,000 feet

Path: C:\Program Files\ArcGIS\Bin\Templates\Bio Survey\11x171-survey.mxd, 07/26/07, morenop

Northeast Survey Point

Survey Section NE

Surveyor Name JMC

Survey # 1 of 12

Date 9/26/13

GPS Unit # _____ Map # _____

Orange County

Riverside County

San Diego County

Imperial County

Mexico

Legend

▲ Survey Points

400; 800; 1200 Meter Buffer

1600 Meter Buffer

World Transportation

Projection: California State Plane Zone VI (Feet)

Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.

The figure is an aerial map with several concentric circles centered on a survey point (marked with a blue triangle). The circles represent buffer distances of 400, 800, 1200, and 1600 meters. Handwritten red annotations are present: '5 min' near the 800m buffer, '10 min' near the 1200m buffer, '3 min' and '7 min' near the 1600m buffer, 'KITING' with an arrow pointing to a red squiggly line, and 'GOEA' in large red letters. The map shows various roads including Rangeland Rd, Montecello Rd, Ramona Airport Rd, and Ramona Airport. A scale bar at the bottom left indicates 300 meters and 625 feet, with a scale of 1:15,000. A north arrow is also present.

Path: C:\Program Files\ArcGIS\Bin\Templates\Bla Survey\11x17-survey.mxd, 07/26/07, morenop

Northeast Survey Point

Survey Section NE

Surveyor Name C. MEMORIAN

Survey # 2

Date 10/29/13

GPS Unit # _____ Map # _____

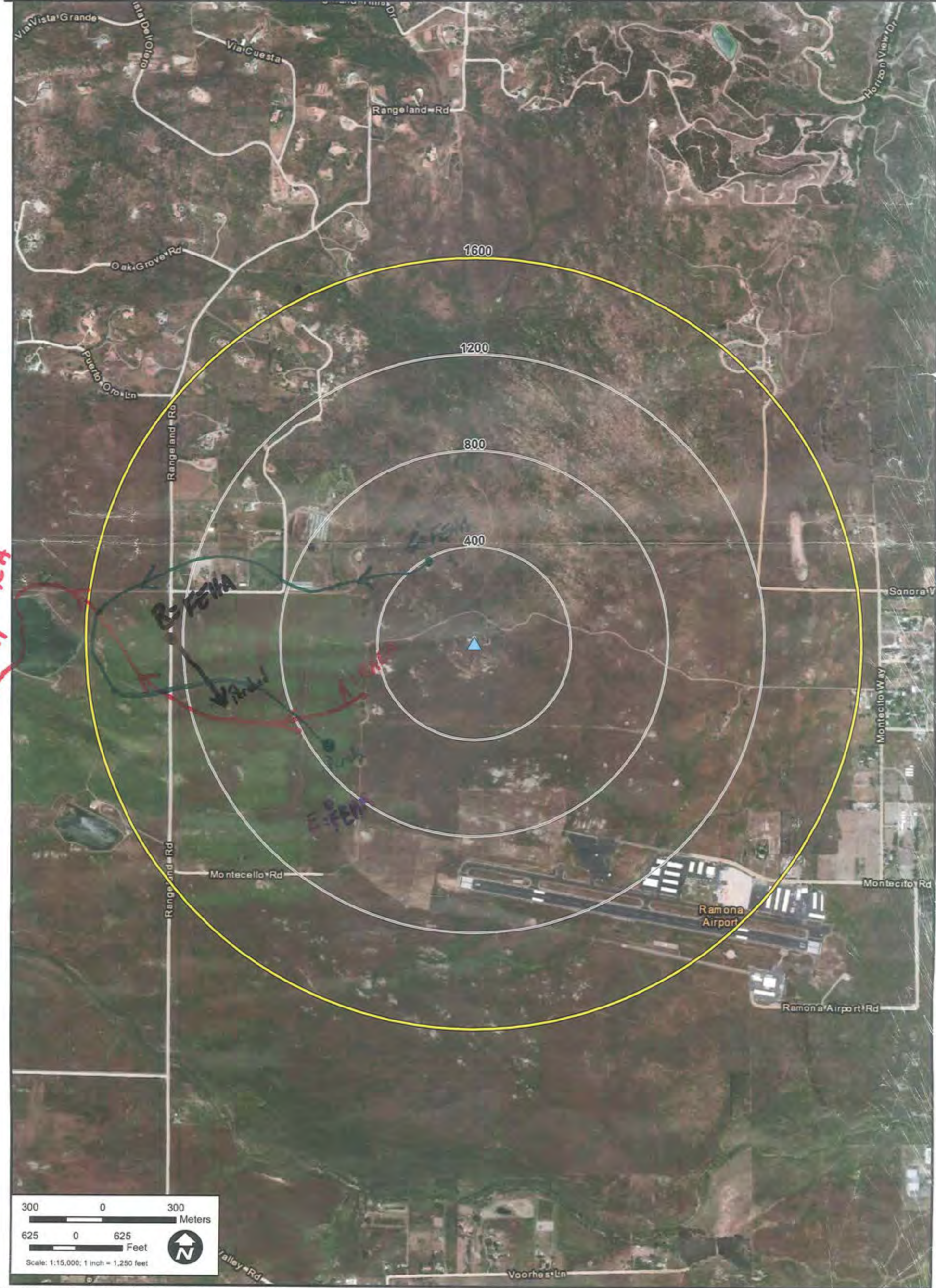
Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation

Projection: California State Plane Zone VI (Feet)

Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.



Northwest Survey Point

Survey Section **NW**

Surveyor Name **G. MEMORPH**

Survey # **2**

Date **10/29/13**

GPS Unit # _____ Map # _____

Orange County

Riverside County

San Diego County

Imperial County

Mexico

Legend

▲ Survey Points

400; 800; 1200 Meter Buffer

1600 Meter Buffer

World Transportation

The figure is an aerial photograph overlaid with GIS data. At the center is a blue triangle representing a survey point. Four concentric circles are drawn around this point, labeled with their radii: 400, 800, 1200, and 1600 meters. The 1600m buffer is highlighted with a yellow border. The map shows a network of roads, including Highland Valley Rd, Rancho San Martin Dr, and others. Handwritten annotations in red ink include 'STOP' and 'FENA' with arrows pointing to specific locations. Blue ink annotations include 'B-EA' and other markings. A scale bar at the bottom left shows distances in meters (0 to 300) and feet (0 to 625). A north arrow is also present.

Path: C:\Program Files\ArcGIS\Bin\Templates\Bio Survey\11x17-survey.mxd, 07/26/07, morenop

Northwest Survey Point

Survey Section **NW**

Surveyor Name **J. McMoran**

Survey # **2**

Date **10/29/13**

GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)

Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.

Orange County

Riverside County

San Diego County

Imperial County

Mexico

Legend

Survey Points

400; 800; 1200 Meter Buffer

1600 Meter Buffer

World Transportation

The figure is an aerial photograph overlaid with GIS data. A central blue triangle represents the survey point. Four concentric circles are drawn around it, labeled 400, 800, 1200, and 1600, representing buffer distances in meters. A yellow line represents the 1600-meter buffer. Handwritten in blue ink are the labels 'F-RTMA', 'A-RTMA', and 'D-RTMA' with arrows pointing to specific locations within the buffers. The map shows a network of roads, including Highland Valley Rd, Rancho San Martin Dr, Rancho De La Angel Rd, and others. A scale bar at the bottom left shows distances in meters (0 to 300) and feet (0 to 625). A north arrow is also present.

Path: C:\Program Files\ArcGIS\Bin\Templates\Bto Survey\11x171-survey.mxd, 07/26/07, morenop

Northeast Survey Point

Survey Section NE

Surveyor Name J. McMorran

Survey # 2

Date 10/29/13

GPS Unit # _____ Map # _____

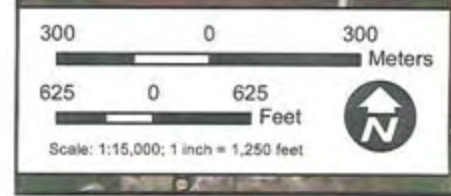
Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation

Projection: California State Plane Zone VI (Feet)

Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.



Northeast Survey Point

Survey Section **NE**

Surveyor Name **JMC**

Survey # **3**

Date **11/26/13**

GPS Unit # **Map #**

Orange County

Riverside County

San Diego County

Imperial County

Mexico

Legend

Survey Points

400; 800; 1200 Meter Buffer

1600 Meter Buffer

World Transportation

300 0 300 Meters

625 0 625 Feet

Scale: 1:15,000; 1 inch = 1,250 feet

Path: C:\Program Files\ArcGIS\Bin\Templates\Bio Survey\11x17-survey.mxd, 07/26/07, moremap

Northeast Survey Point

NW

Survey Section JMC

Surveyor Name _____

Survey # 3

Date 11/26/13

GPS Unit # _____ Map # _____

Orange County

Riverside County

San Diego County

Imperial County

Mexico

Legend

▲ Survey Points

400; 800; 1200 Meter Buffer

1600 Meter Buffer

World Transportation

Projection: California State Plane Zone VI (Feet)

Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.



Northeast Survey Point

Survey Section NW

Surveyor Name JMY

Survey # 3

Date 11/26/13

GPS Unit # Map #

Projection: California State Plane Zone VI (Feet)

Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.

Orange County

Riverside County

San Diego County

Imperial County

Mexico

Legend

▲ Survey Points

400; 800; 1200 Meter Buffer

1600 Meter Buffer

World Transportation

The figure is an aerial map with several concentric circles centered on a survey point, marked with a blue triangle. The circles represent buffer distances of 400, 800, 1200, and 1600 meters. The map shows a network of roads, including Highland Valley Rd, Rancho San Martin Dr, Rancho De La Angel Rd, and others. Handwritten annotations in blue and red ink are present, including 'NW', 'JMY', '3', '11/26/13', and '5.8'. A scale bar at the bottom left indicates distances in meters (0 to 300) and feet (0 to 625). A north arrow is also included. The map is overlaid with a grid of dashed lines.

Path: C:\Program Files\ArcGIS\Bin\Templates\Bio Survey\11x17-survey.mxd, 07/26/07, moremap

Northeast Survey Point

Survey Section NW
Surveyor Name SMC
Survey # 4
Date 12/30/13
GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983
Disclaimer: This map is for field use purposes only.



Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



Northeast Survey Point

Survey Section NE

Surveyor Name JMC

Survey # 4

Date 12/30/13

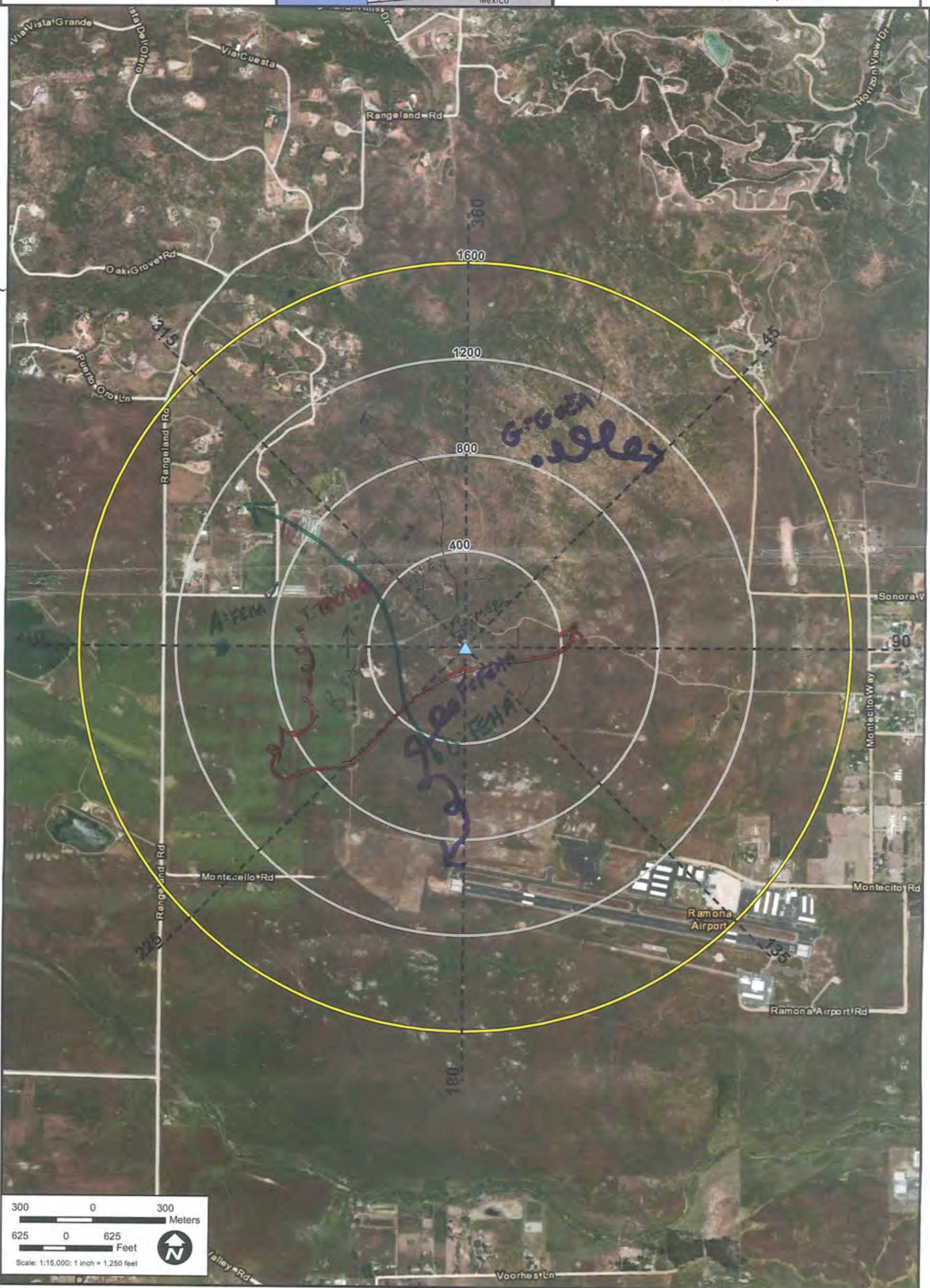
GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)
 Datum: North American Datum of 1983
 Disclaimer: This map is for field use purposes only.



Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



2 x 2454 x 2

KHON

Northeast Survey Point

Survey Section NE
Surveyor Name J. McMoran
Survey # 5
Date 1/31/14
GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983
Disclaimer: This map is for field use purposes only.



Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



B = 2 ADULT BAEA

C = IMM BAEA

 = INCIDENTAL

Northeast Survey Point

Survey Section NW
Surveyor Name J. McMoran
Survey # 5
Date 1/31/14
GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.



- Legend**
- Survey Points
 - 400; 800; 1200 Meter Buffer
 - 1600 Meter Buffer
 - World Transportation



B = BAEA

Northeast Survey Point

Survey Section NW

Surveyor Name J. McMorran

Survey # 5

Date 1/31/14

GPS Unit # _____ Map # _____

Orange County
Riverside County
San Diego County
Imperial County
Mexico

Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983
Disclaimer: This map is for field use purposes only.



Northeast Survey Point
Survey Section NE
Surveyor Name J. McMoran
Survey # 5
Date 1/31/14
GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983
Disclaimer: This map is for field use purposes only.



- Legend**
- Survey Points
 - 400; 800; 1200 Meter Buffer
 - 1600 Meter Buffer
 - World Transportation



Northeast Survey Point

Survey Section

Surveyor Name

Survey #

Date

GPS Unit #

Map #

Projection: California State Plane Zone VI (Feet)

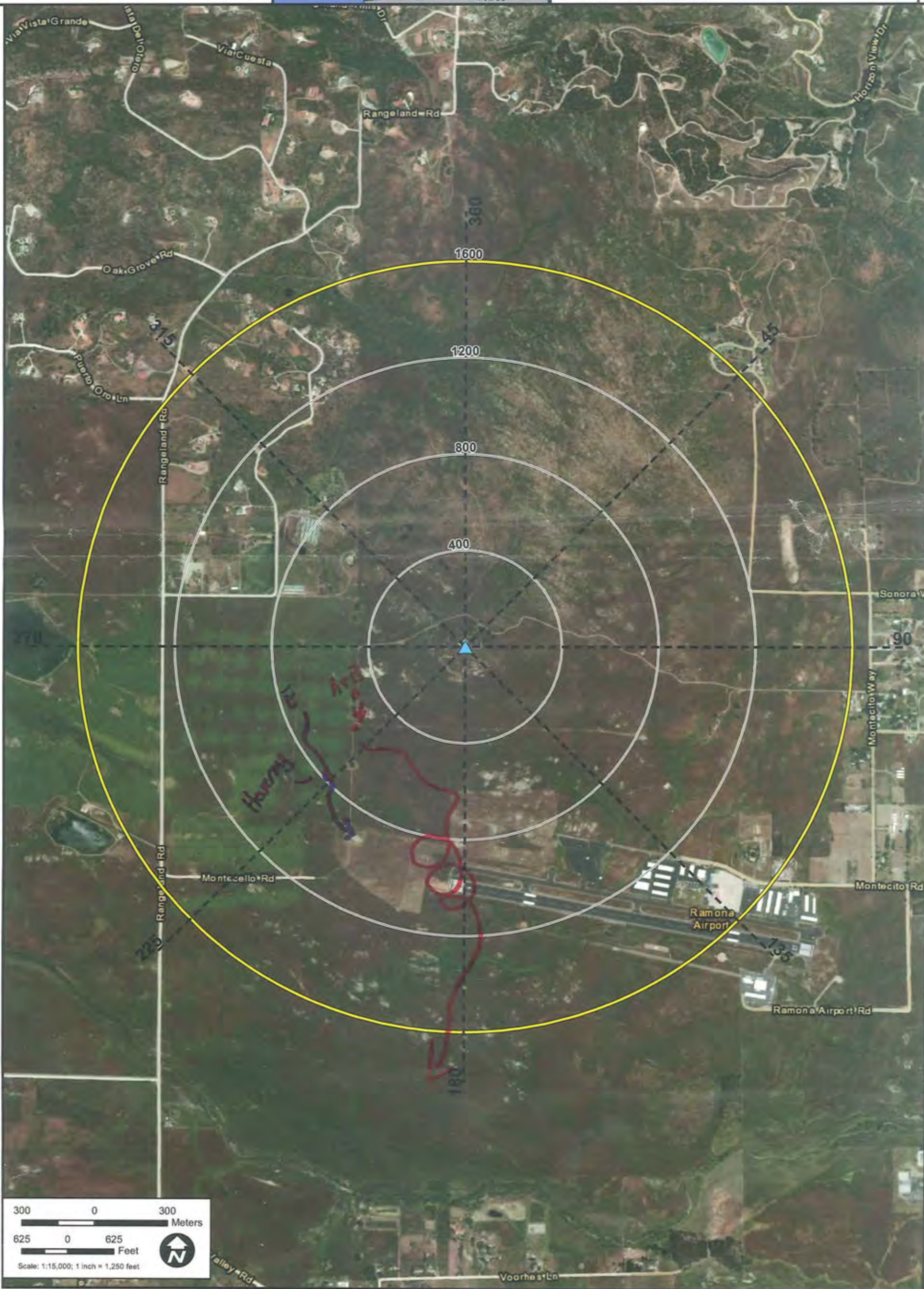
Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.



Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



A: BAE A · 3 = BAE A
E = FE HA

C = RTNA

D = RTNA

Northeast Survey Point

Survey Section NE
Surveyor Name MEMORAN
Survey # 21251.0
Date 2/25/10
GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.



Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



Northeast Survey Point

Survey Section NE

Surveyor Name J. McMorran

Survey # SPAIN 2

Date 4/30/14

GPS Unit # _____ Map # _____

Orange County

Riverside County

San Diego County

Imperial County

Mexico

Legend

▲ Survey Points

400; 800; 1200 Meter Buffer

1600 Meter Buffer

World Transportation

Projection: California State Plane Zone VI (Feet)

Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.

The figure is an aerial photograph overlaid with a series of concentric circles representing buffer distances from a central survey point. The survey point is marked with a blue triangle. The buffer circles are labeled with their respective distances: 400, 800, 1200, and 1600 meters. The 1600-meter buffer is highlighted with a yellow outline. The map shows a landscape with roads, fields, and some buildings. Key roads labeled include Rangeland Rd, Oak Grove Rd, Montecello Rd, and Ramona Airport Rd. The Ramona Airport is visible in the lower right quadrant. A scale bar at the bottom left indicates distances in meters (0 to 300) and feet (0 to 625). A north arrow is also present. Handwritten text 'BAEA' is visible near the center of the map.

Path: C:\Program Files\ArcGIS\Bin\Templates\Bio Survey\11x17-survey.mxd, 07/26/07, morenop

Northeast Survey Point

Survey Section NE

Surveyor Name TIME

Survey # 3043 SPRING

Date 2/28/14

GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)

Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.

Orange County
Riverside County
San Diego County
Imperial County
Mexico

A = BAEFA w/ nestlings
B = PRFA

Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



Northeast Survey Point

Survey Section NW

Surveyor Name JMG

Survey # 93 for Spring

Date 5/26/14

GPS Unit # _____ Map # _____

Orange County

Riverside County

San Diego County

Imperial County

Mexico

A = AMKE

B = ZSHA

C = COHA

D = PRFA

E = AMKE

Legend

▲ Survey Points

400; 800; 1200 Meter Buffer

1600 Meter Buffer

World Transportation

Projection: California State Plane Zone VI (Feet)

Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.

Path: C:\Program Files\ArcGIS\Bin\Templates\Bio Survey\11x17i-survey.mxd, 07/26/07, moremap

Blue + Black = Final Summer Survey

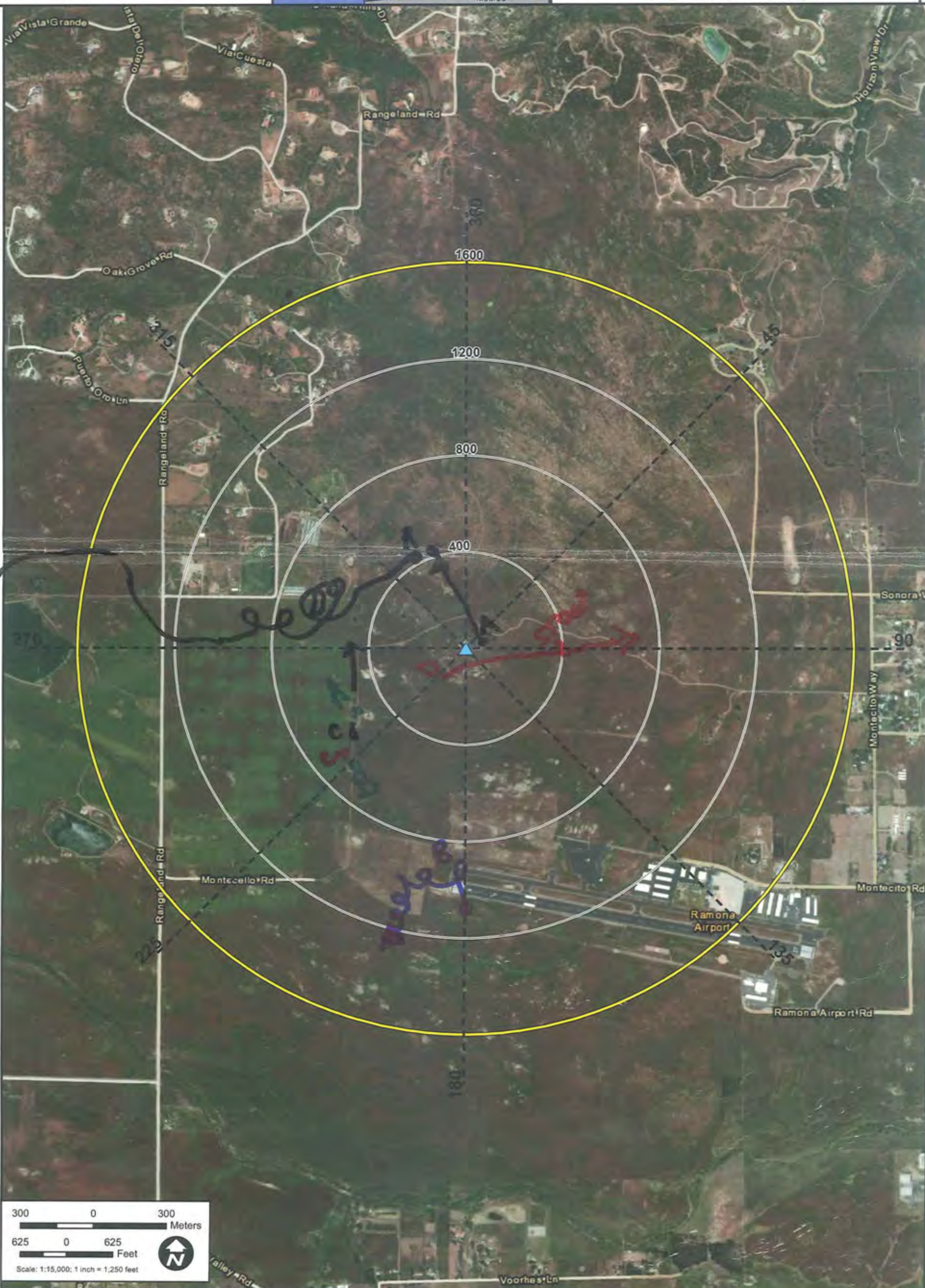
Northeast Survey Point
Survey Section NE
Surveyor Name EMC
Survey # 1st Summer
Date 6/25/14
GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983
Disclaimer: This map is for field use purposes only.



Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



A = Adj + BAE A

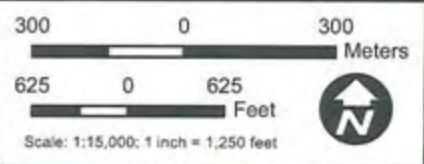
B = Juv BAE A

C = AMKE D = AMKE

A = BAE A

B = 00 H A

C = P2 F A



A = JUV BAEBA, B = Adult BAEBA, C = AL BAEBA

Northeast Survey Point

Survey Section **NE**

Surveyor Name **JMC**

Survey # **2 of 3 Summer**

Date **7/29/14**

GPS Unit # **7129114** Map #

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983
Disclaimer: This map is for field use purposes only.

Orange County
Riverside County
San Diego County
Imperial County
Mexico

Legend

▲ Survey Points

400; 800; 1200 Meter Buffer





1600 Meter Buffer

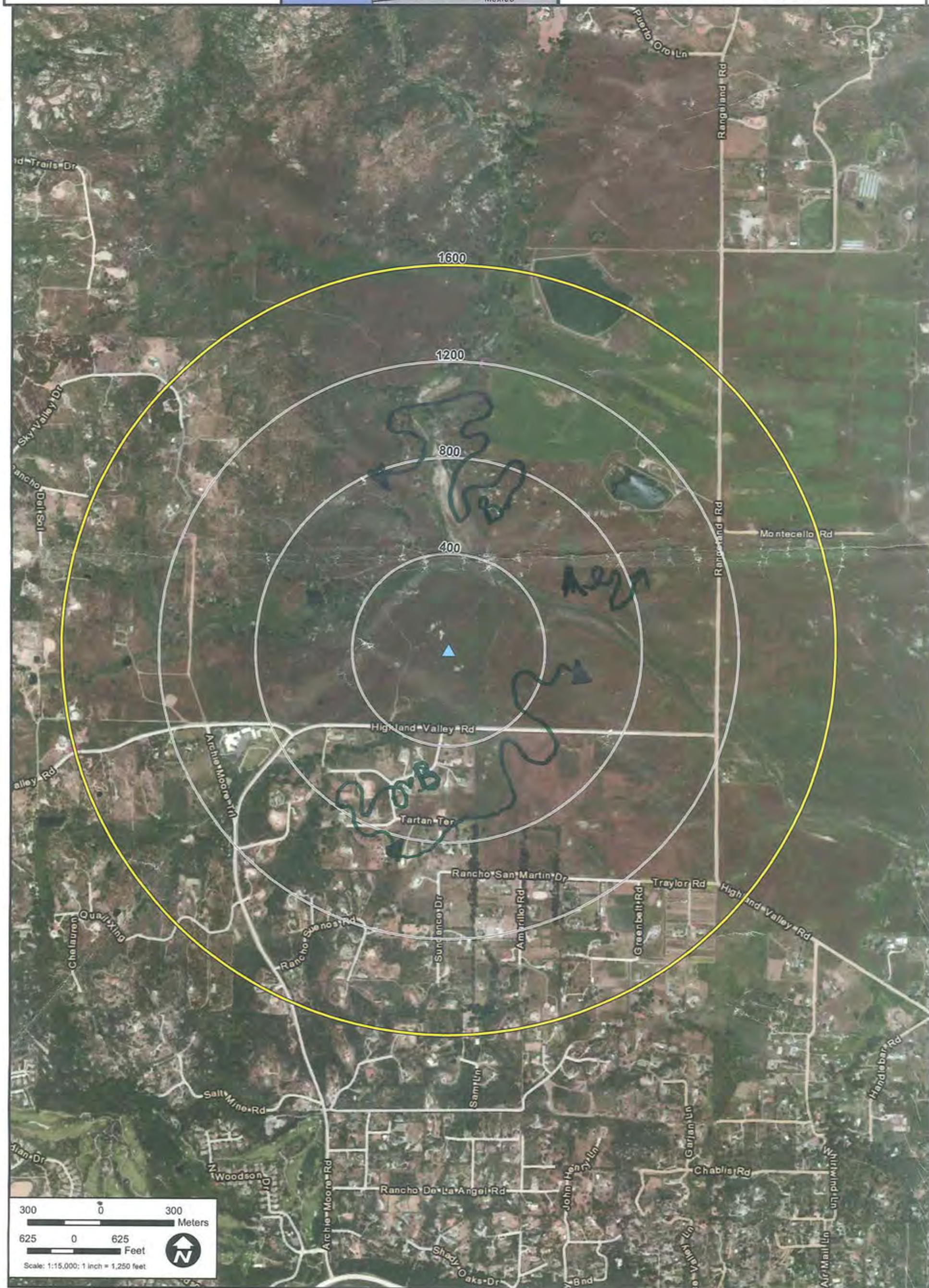
World Transportation

D = Anko



A= RTNA (DARK MORPH) B= RTNA

Northwest Survey Point		Legend  Survey Points  400; 800; 1200 Meter Buffer  1600 Meter Buffer World Transportation
Survey Section <u>NW</u>		
Surveyor Name <u>JMC</u>		
Survey # <u>2013 Summer</u>		
Date <u>7/29/14</u>		
GPS Unit # _____ Map # _____		
Projection: California State Plane Zone VI (Feet) Datum: North American Datum of 1983 <i>Disclaimer: This map is for field use purposes only.</i>		



A = BAE A B = PEFA

Northeast Survey Point

Survey Section NE

Surveyor Name J. McMoran

Survey # 12

Date 8/30/14

GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983
Disclaimer: This map is for field use purposes only.

Orange County Riverside County

San Diego County

Imperial County

Mexico

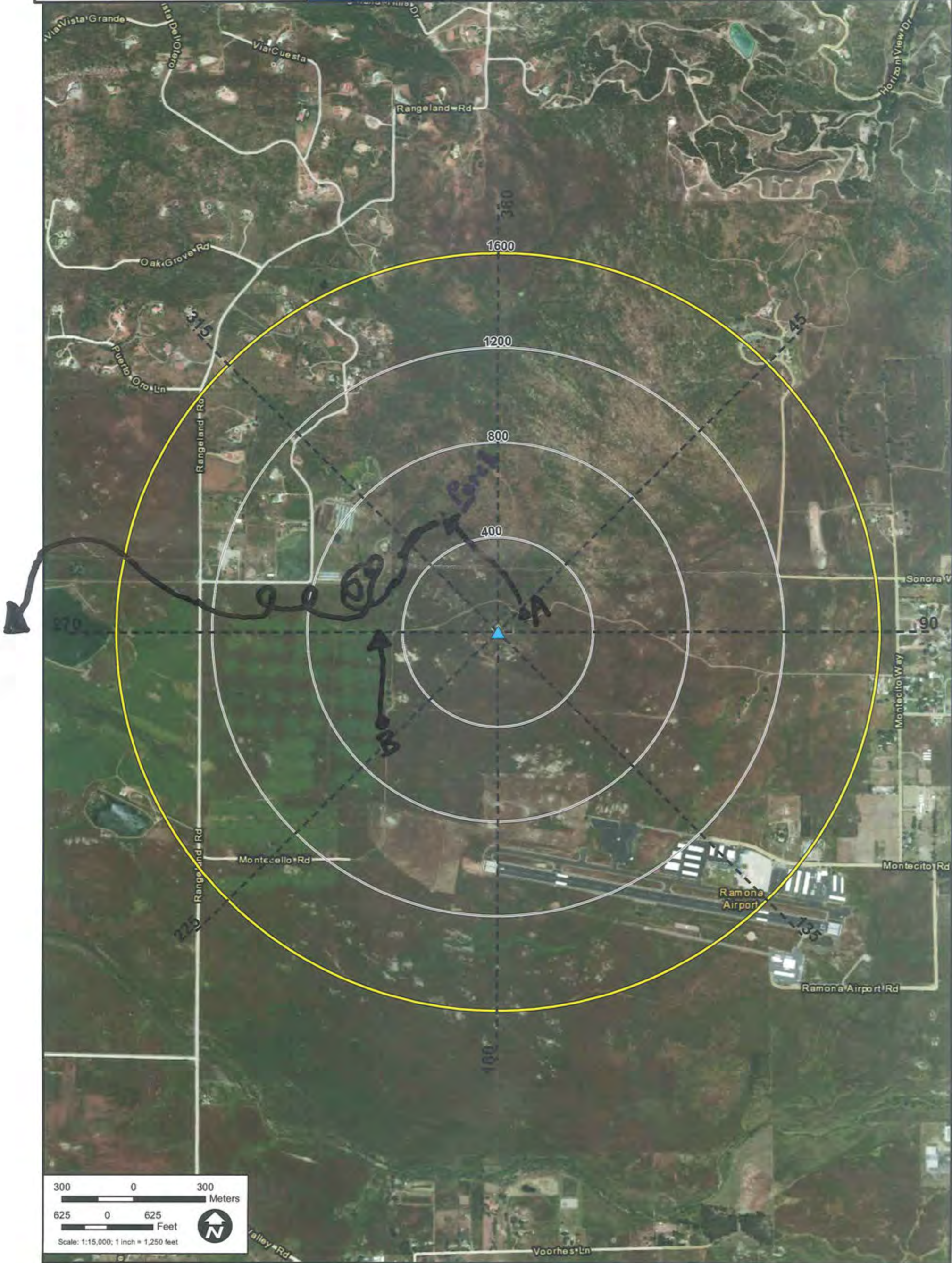
Legend

▲ Survey Points

400; 800; 1200 Meter Buffer

1600 Meter Buffer

World Transportation



Northeast Survey Point

Survey Section **8/30/14**

Surveyor Name **JMC**

Survey # **12-313**

Date **for Summer**

GPS Unit # **Map #**

Orange County

Riverside County

San Diego County

Imperial County

Mexico

• This obs was for approx. 20 minutes - Definitely ~~foraging~~ foraging

▲ Survey Points

3 mile buffers

World Transportation

The main map is an aerial photograph of the Ramona area in San Diego County, California. A large red circle represents a 3-mile buffer around a survey point, marked with a blue triangle. A black line, labeled 'GOEA' in large handwritten letters, winds through the landscape, starting from the top left and ending near the bottom right. The map shows various features including roads (e.g., CA-67, 78, 67), the Ramona Airport, and surrounding terrain. A scale bar at the bottom left indicates distances in meters (0 to 800) and feet (0 to 2,000), with a scale of 1:48,000. A north arrow is also present.

Path: C:\Program Files\ArcGIS\Bin\Templates\Bio Survey\11x17-survey.mxd, 07/26/07, morenap

USFWS

Northeast Survey Point

Survey Section NE
Surveyor Name DEEP PAGE
Survey # 1
Date 11/18/13
GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.



Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



Northeast Survey Point

Survey Section NW
Surveyor Name Jeep Pagel
Survey # 1
Date 18 Nov. 2013
GPS Unit # 112 TC3 Map # 1

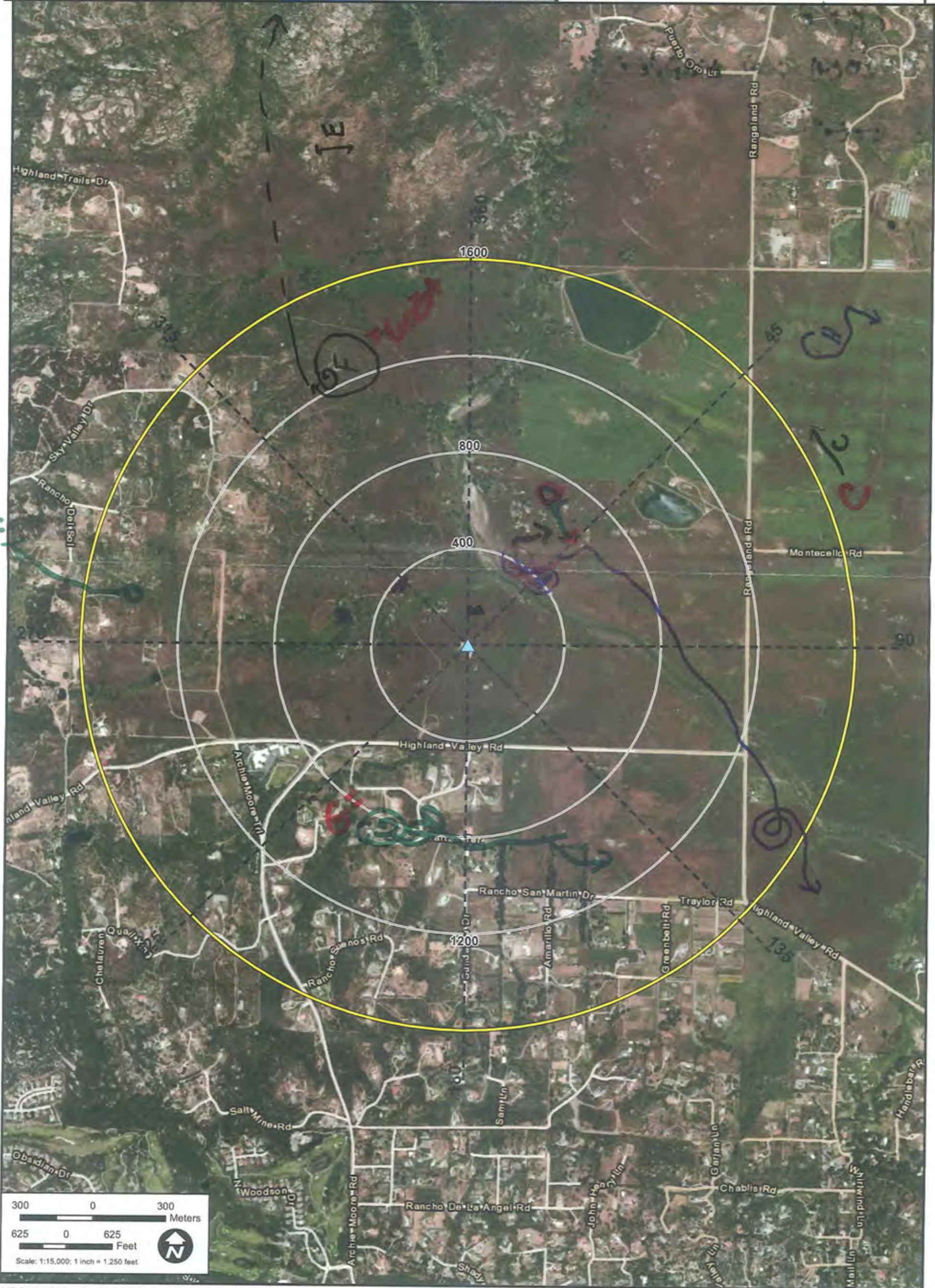
Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.



Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation





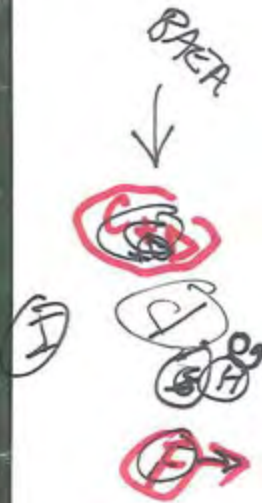
Northeast Survey Point
 Survey Section NW
 Surveyor Name PAGE
 Survey # 1
 Date 13 Dec 2018
 GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)
 Datum: North American Datum of 1983
 Disclaimer: This map is for field use purposes only.



Legend

- ▲ Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



A = MERL
 B = RTTH
 C = DAEA
 D = DAEA
 E = PCFA

F = GUEA
 G = PRFA
 H = FEHA
 I = FEHA
 J = FEHA



Northeast Survey Point

Survey Section SW

Surveyor Name Remona Gressel

Survey # _____

Date 17 Jan 2014

GPS Unit # _____ Map # 1

Projection: California State Plane Zone VI (Feet)

Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.

Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



A

B=PRFA C=AmKE D=GAEN E=PERA

Northeast Survey Point

Survey Section SW - Ramon2 Grassland
Surveyor Name Jeep Pagel
Survey # _____
Date 11 Feb 2014
GPS Unit # _____ Map # 7

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983
Disclaimer: This map is for field use purposes only.



Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



A=BAC A B F E H A N=2 C= R A H A
F E H A

Northeast Survey Point

Survey Section NE
Surveyor Name Jeep
Survey # _____
Date 11 Feb 2014
GPS Unit # _____ Map # 1

Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983
Disclaimer: This map is for field use purposes only.



A = BAEA
B = BAEA
C = BAEA
D = PRAA E RMA
Pilled squirrel

Northeast Survey Point

Survey Section NE

Surveyor Name JEEN PAGEL

Survey # SPRING 1

Date 3/14/2014

GPS Unit # _____ Map # _____

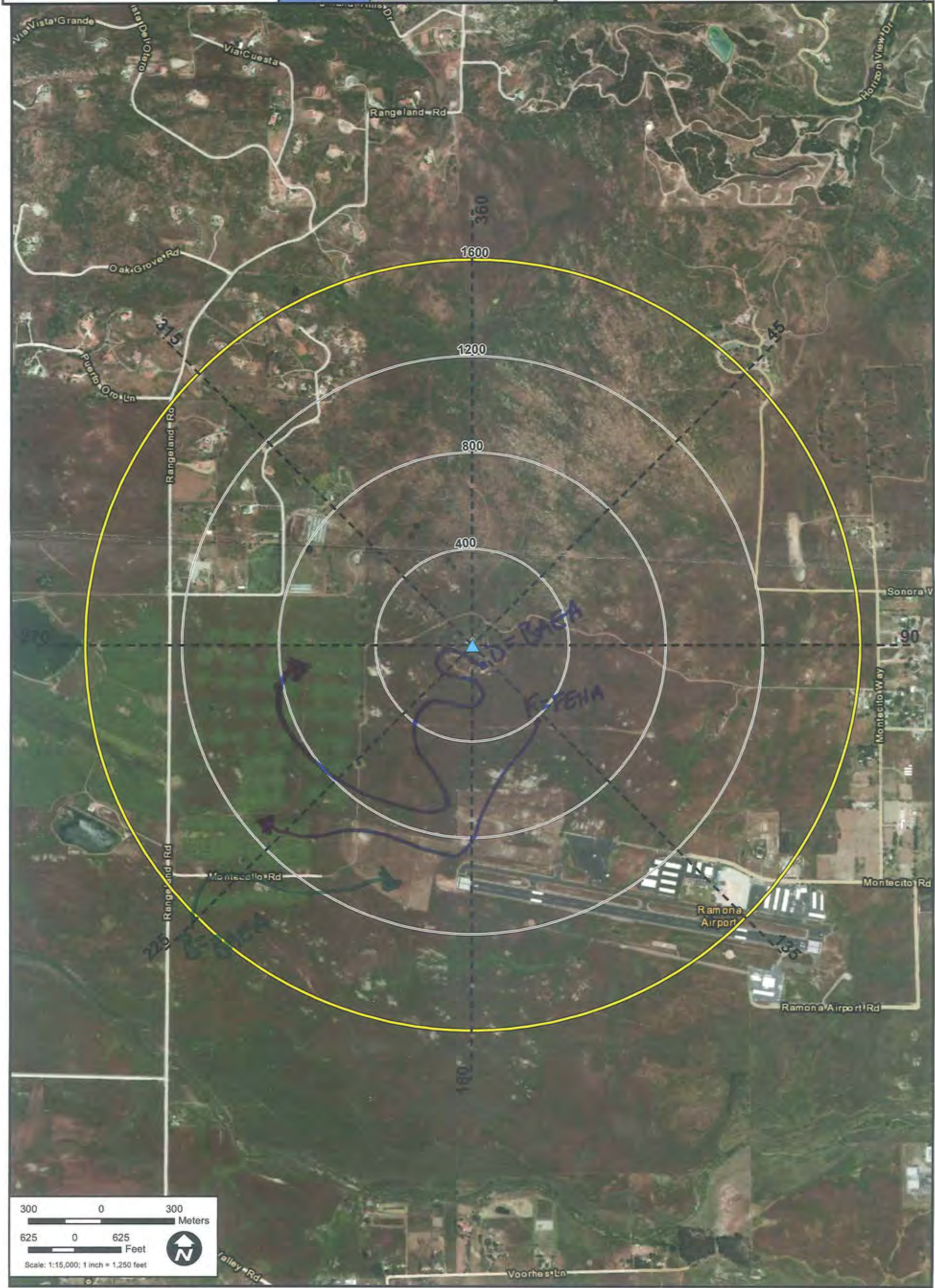
Projection: California State Plane Zone VI (Feet)

Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.

Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



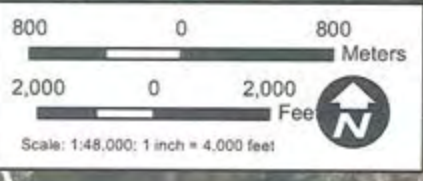
A = RSHA ~~B~~ B = BAER C = RSHA D = Afternoon flight by BAER

Northeast Survey Point
Survey Section NE AND SW
Surveyor Name Ramona Grassland
Survey # _____
Date 14 Mar. 2014
GPS Unit # _____ Map # 1 of 1

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983
Disclaimer: This map is for field use purposes only.



E = GCEA F = FEHA



$A = BA EA$ perch: nosk B $COHA$ $C = BA EA?$



Northeast Survey Point NE
Survey Section N10 - Romanz
Surveyor Name Jeep Pegel
Survey # _____
Date 15 Apr. 2014
GPS Unit # _____ Map # _____

Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.



Legend

-  Survey Points
 400; 800; 1200 Meter Buffer
 1600 Meter Buffer
 World Transportation



Path: C:\Program Files\ArcGIS\Bin\Templates\Bio Survey\11x17-bio-survey.mxd, 07/26/07, moremap

A=60EA B=60EA

Northeast Survey Point By Jeep Payer
Survey Section SW
Surveyor Name Ramon Z. Gressler
Survey # AM
Date 16 May 2014
GPS Unit # Map # 1

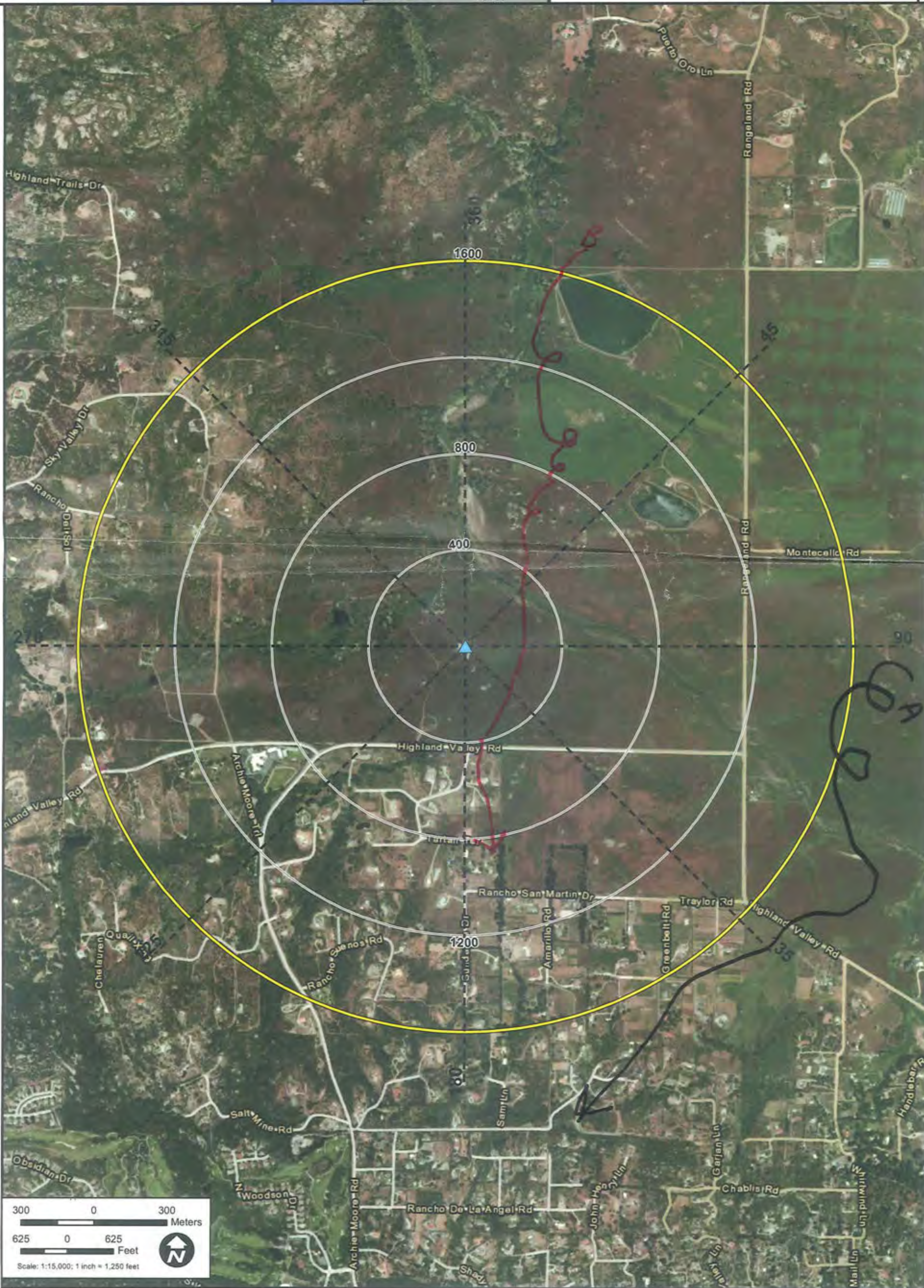
Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.



Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation





A = GOEA B = PRFA

Northeast Survey Point

Survey Section SW
Surveyor Name Jeep Pangel
Survey # _____
Date 13 June 2014
GPS Unit # _____ Map # 1

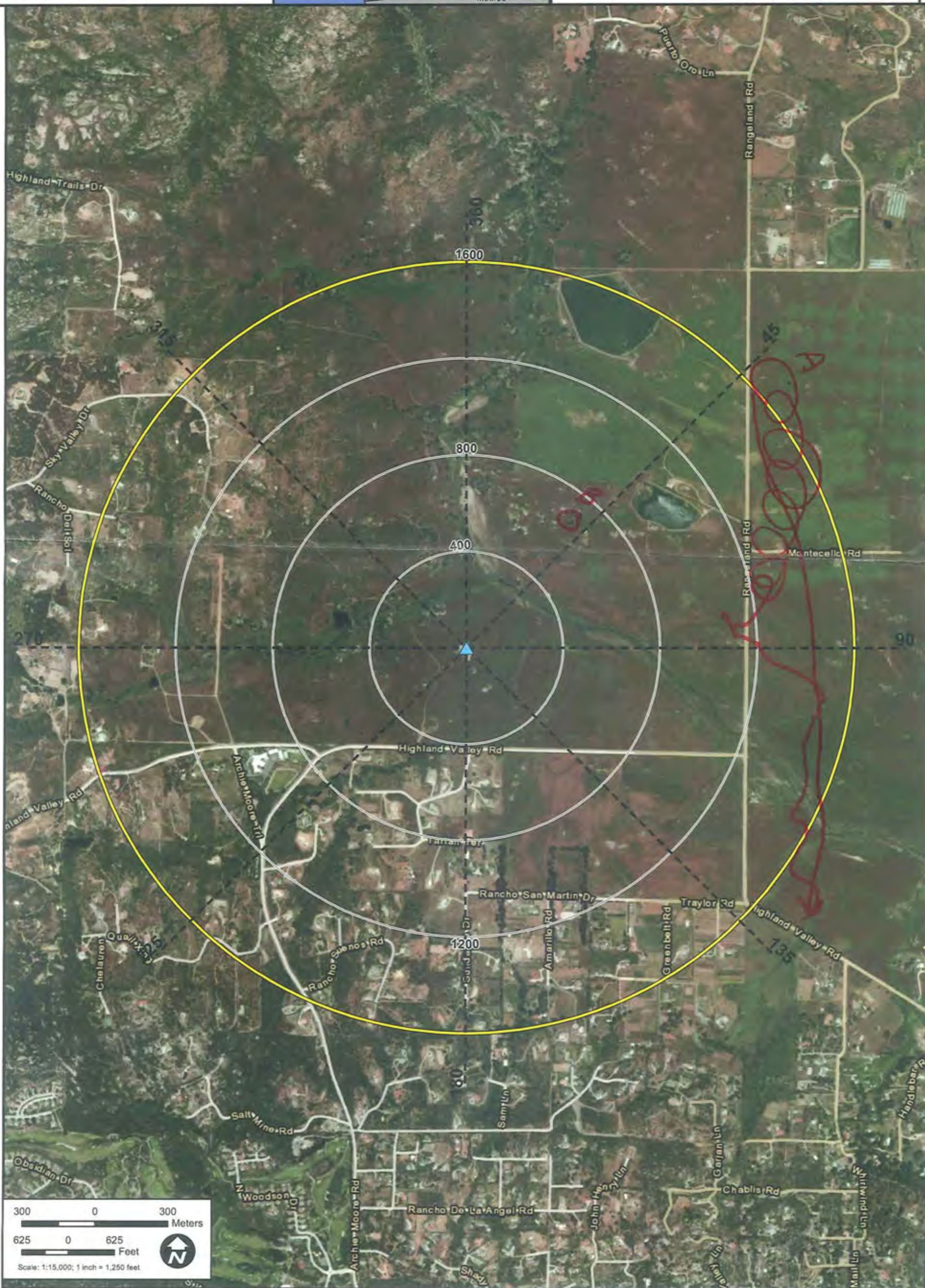
Projection: California State Plane Zone VI (Feet)
Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.



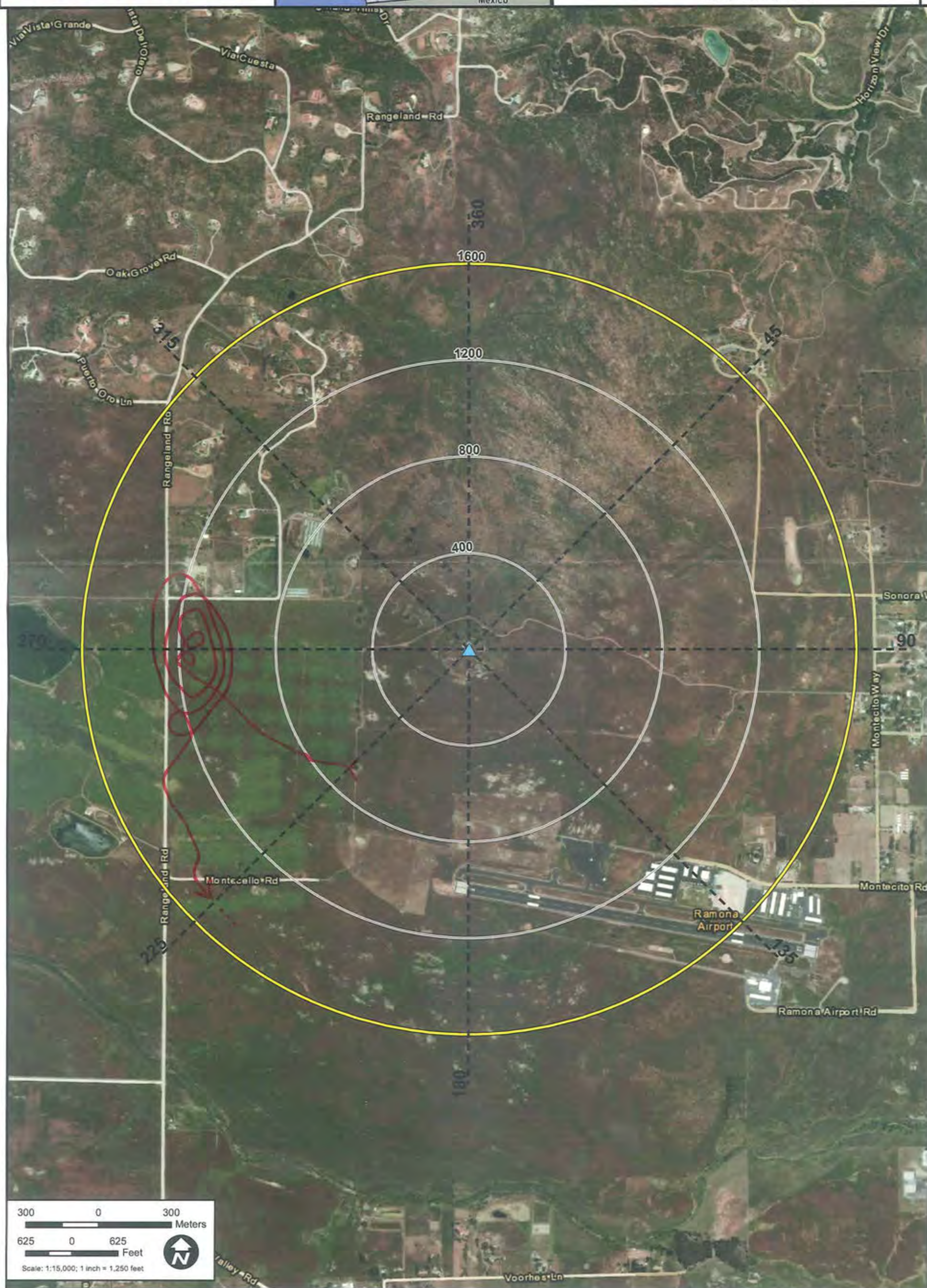
Legend

- Survey Points
- 400; 800; 1200 Meter Buffer
- 1600 Meter Buffer
- World Transportation



A = BAEA

<p>Northeast Survey Point</p> <p>Survey Section <u>NE</u></p> <p>Surveyor Name <u>Jeep</u></p> <p>Survey # _____</p> <p>Date <u>16 July 2014</u></p> <p>GPS Unit # _____ Map # _____</p> <p>Projection: California State Plane Zone VI (Feet)</p> <p>Datum: North American Datum of 1983</p> <p><i>Disclaimer: This map is for field use purposes only.</i></p>	 <p>Orange County Riverside County San Diego County Imperial County Mexico</p>	<p>Legend</p> <p> Survey Points</p> <p> 400; 800; 1200 Meter Buffer</p> <p> 1600 Meter Buffer</p> <p> World Transportation</p>
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A=GOEA B=PEFA!! C=PRFA

Northeast Survey Point

Survey Section _____

Surveyor Name Jeep

Survey # _____

Date 16 July 2014

GPS Unit # _____ Map # 1

Projection: California State Plane Zone VI (Feet)

Datum: North American Datum of 1983

Disclaimer: This map is for field use purposes only.

Orange County
Riverside County
San Diego County
Imperial County
Mexico

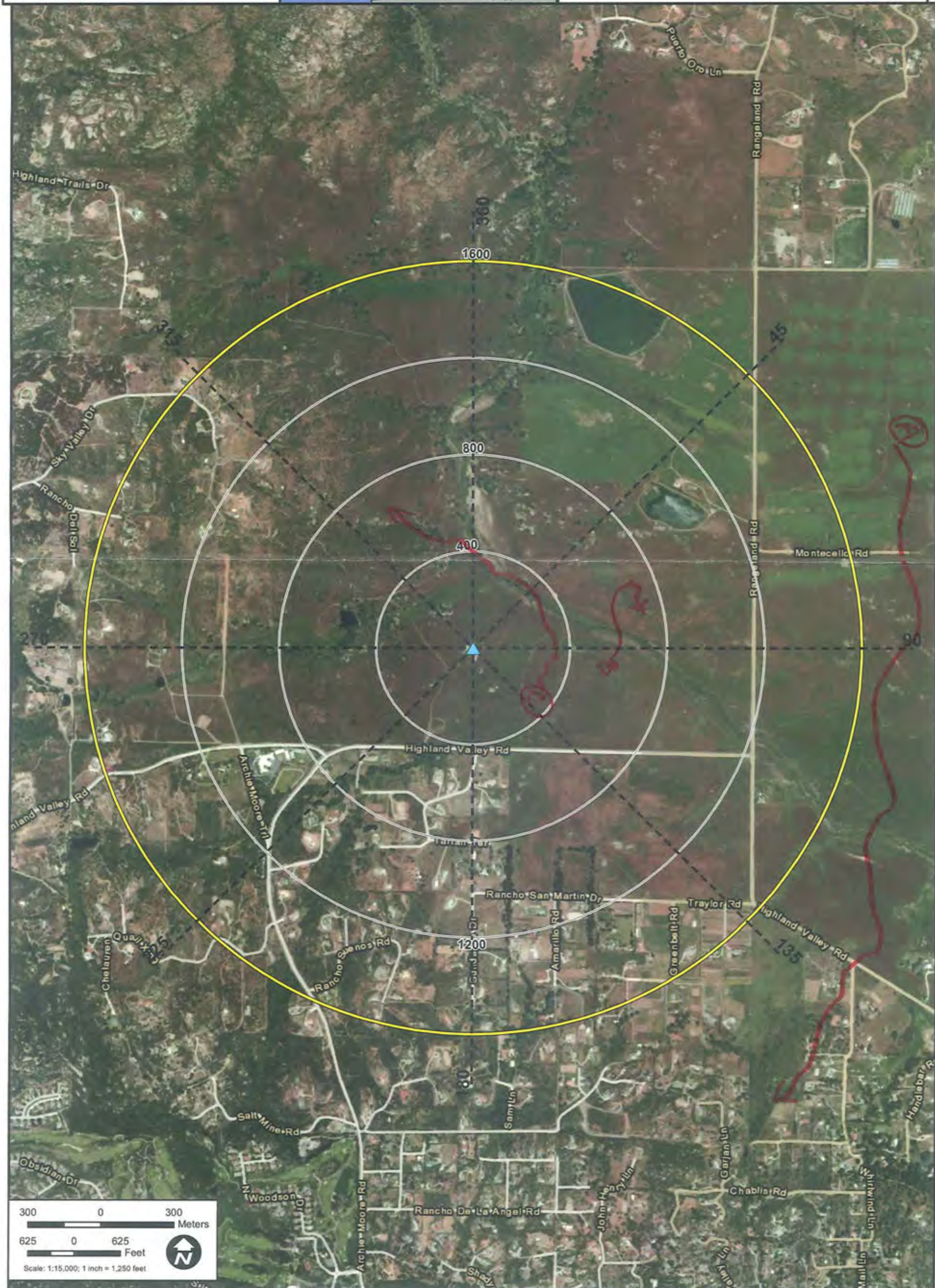
Legend

Survey Points

400; 800; 1200 Meter Buffer

1600 Meter Buffer

World Transportation



APPENDIX F

SPECIES LIST BY SEASON

APPENDIX F – SPECIES LIST BY SEASON

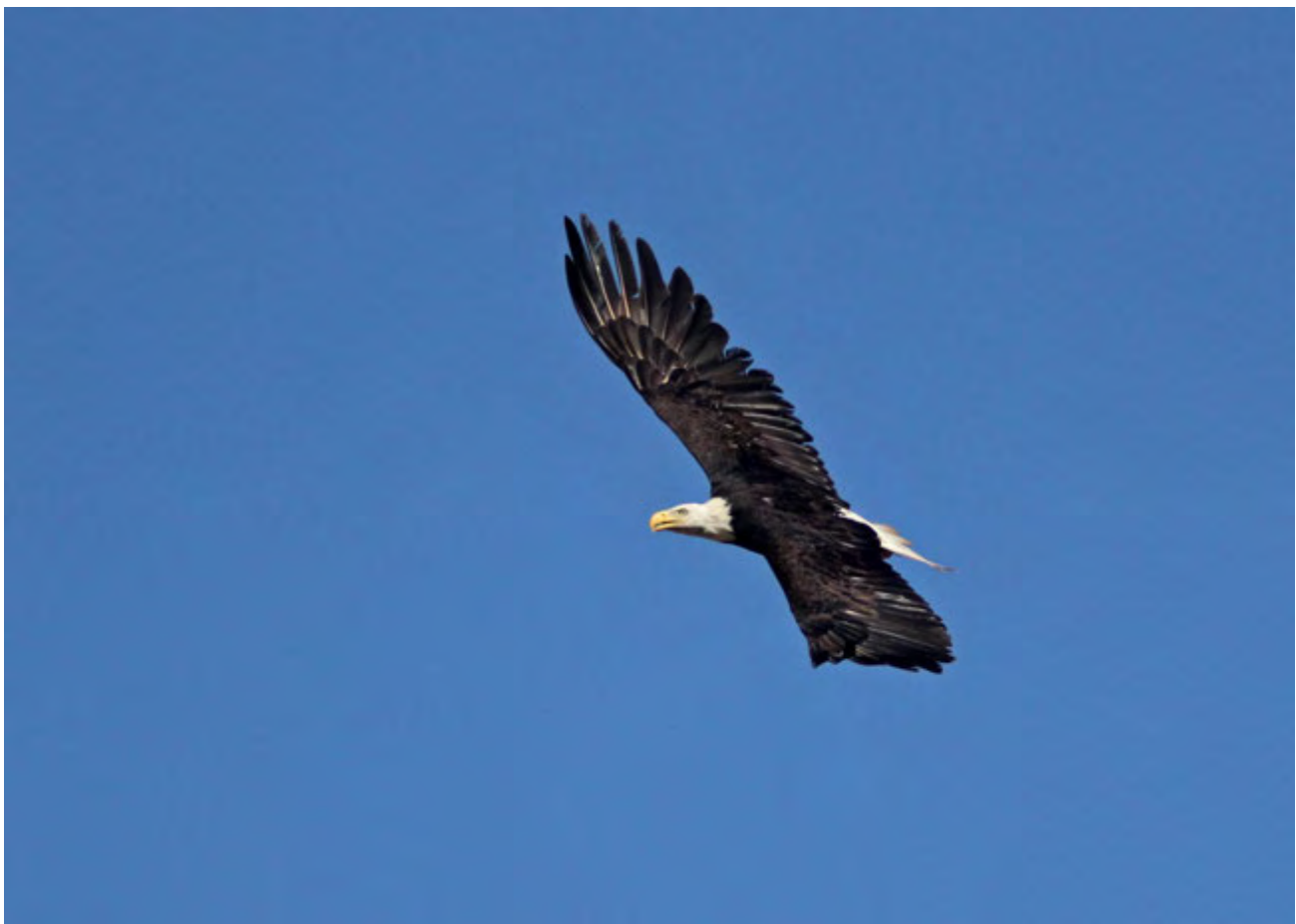
Common Name	Scientific Name
Fall	
American Kestrel	<i>Falco sparverius</i>
American Peregrine Falcon	<i>Falco peregrinus anatum</i>
Bald Eagle	<i>Haliaeetus leucocephalus</i>
Cooper's Hawk	<i>Accipiter cooperii</i>
Ferruginous Hawk	<i>Buteo regalis</i>
Golden Eagle	<i>Aquila chrysaetos</i>
Northern Harrier	<i>Circus cyaneus</i>
Prairie Falcon	<i>Falco mexicanus</i>
Red-Shouldered Hawk	<i>Buteo lineatus</i>
Red-Tailed Hawk	<i>Buteo jamaicensis</i>
Sharp-Shinned Hawk	<i>Accipiter striatus</i>
Winter	
American Kestrel	<i>Falco sparverius</i>
American Peregrine Falcon	<i>Falco peregrinus anatum</i>
Bald Eagle	<i>Haliaeetus leucocephalus</i>
Ferruginous Hawk	<i>Buteo regalis</i>
Golden Eagle	<i>Aquila chrysaetos</i>
Merlin	<i>Falco columbarius</i>
Northern Harrier	<i>Circus cyaneus</i>
Prairie Falcon	<i>Falco mexicanus</i>
Red-Tailed Hawk	<i>Buteo jamaicensis</i>
Rough-Legged Hawk	<i>Buteo lagopus</i>
Spring	
American Kestrel	<i>Falco sparverius</i>
Bald Eagle	<i>Haliaeetus leucocephalus</i>
Cooper's Hawk	<i>Accipiter cooperii</i>
Ferruginous Hawk	<i>Buteo regalis</i>
Golden Eagle	<i>Aquila chrysaetos</i>
Merlin	<i>Falco columbarius</i>
Prairie Falcon	<i>Falco mexicanus</i>
Red-Shouldered Hawk	<i>Buteo lineatus</i>
Red-Tailed Hawk	<i>Buteo jamaicensis</i>
Summer	
American Kestrel	<i>Falco sparverius</i>
American Peregrine Falcon	<i>Falco peregrinus anatum</i>
Bald Eagle	<i>Haliaeetus leucocephalus</i>
Cooper's Hawk	<i>Accipiter cooperii</i>

Common Name	Scientific Name
Golden Eagle	<i>Aquila chrysaetos</i>
Prairie Falcon	<i>Falco mexicanus</i>
Red-Shouldered Hawk	<i>Buteo lineatus</i>
Red-Tailed Hawk	<i>Buteo jamaicensis</i>
All Seasons	
American Kestrel	<i>Falco sparverius</i>
American Peregrine Falcon	<i>Falco peregrinus anatum</i>
Bald Eagle	<i>Haliaeetus leucocephalus</i>
Cooper's Hawk	<i>Accipiter cooperii</i>
Ferruginous Hawk	<i>Buteo regalis</i>
Golden Eagle	<i>Aquila chrysaetos</i>
Merlin	<i>Falco columbarius</i>
Northern Harrier	<i>Circus cyaneus</i>
Prairie Falcon	<i>Falco mexicanus</i>
Red-Shouldered Hawk	<i>Buteo lineatus</i>
Red-Tailed Hawk	<i>Buteo jamaicensis</i>
Rough-Legged Hawk	<i>Buteo lagopus</i>
Sharp-Shinned Hawk	<i>Accipiter striatus</i>

APPENDIX G

PHOTOS OF BALD AND GOLDEN EAGLES

Adult Bald Eagles



Juvenile Golden Eagle with Common Raven



Sub-adult Golden Eagle



Tagged Adult Golden Eagle



APPENDIX H

PHOTOS OF GOLDEN EAGLE NEST MONITORING

Historic Golden Eagle Nest site



Golden Eagle Nest Monitoring Observation Point



Golden Eagle Pair at Nest Monitoring Location



