

# Check Point Survey Report

## Texas West & Central QL2 LiDAR Project

Contract # G16PC00020

Task Order Number: 140G0218F0072

Prepared for:

***USGS – United States Geological Survey***



Prepared By:

**Dewberry Engineers Inc.**

4601 Forbes Boulevard, Suite 300

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	Including: a) Point Documentation Report & Photos of Survey Points	
	b) Final Coordinate List in Excel Format	
	c) NGS Data Sheets for Project Controls	

**1. INTRODUCTION**

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## **1.1 Project Summary**

Dewberry Engineers Inc. is under contract to USGS United States Geological Survey to provide 1,183 Check Points in the State of Texas. Under the above referenced USGS Task Order, Dewberry is tasked to complete the quality assurance of LiDAR mapping products. As part of this work Dewberry staff will complete Check Point surveys that will be used to evaluate the mapping accuracy. The ground survey was conducted between the dates of March 18, 2018 and May 4, 2018.

Existing NGS Control Points were located and surveyed to check the accuracy of the RTK/GPS survey equipment with the results shown in Section 2.4 of this Report.

As an internal QA/QC procedure and to verify that the Check Points meet the 95% confidence level approximately 50% of the points were re-observed and are shown in Section 5 of this report.

Final horizontal coordinates are referenced to UTM Zone 13, 14 and 15 NAD83 (2011) in meters. Final Vertical elevations are referenced to NAVD88 in meters using Geoid model 2012B (Geoid12B).

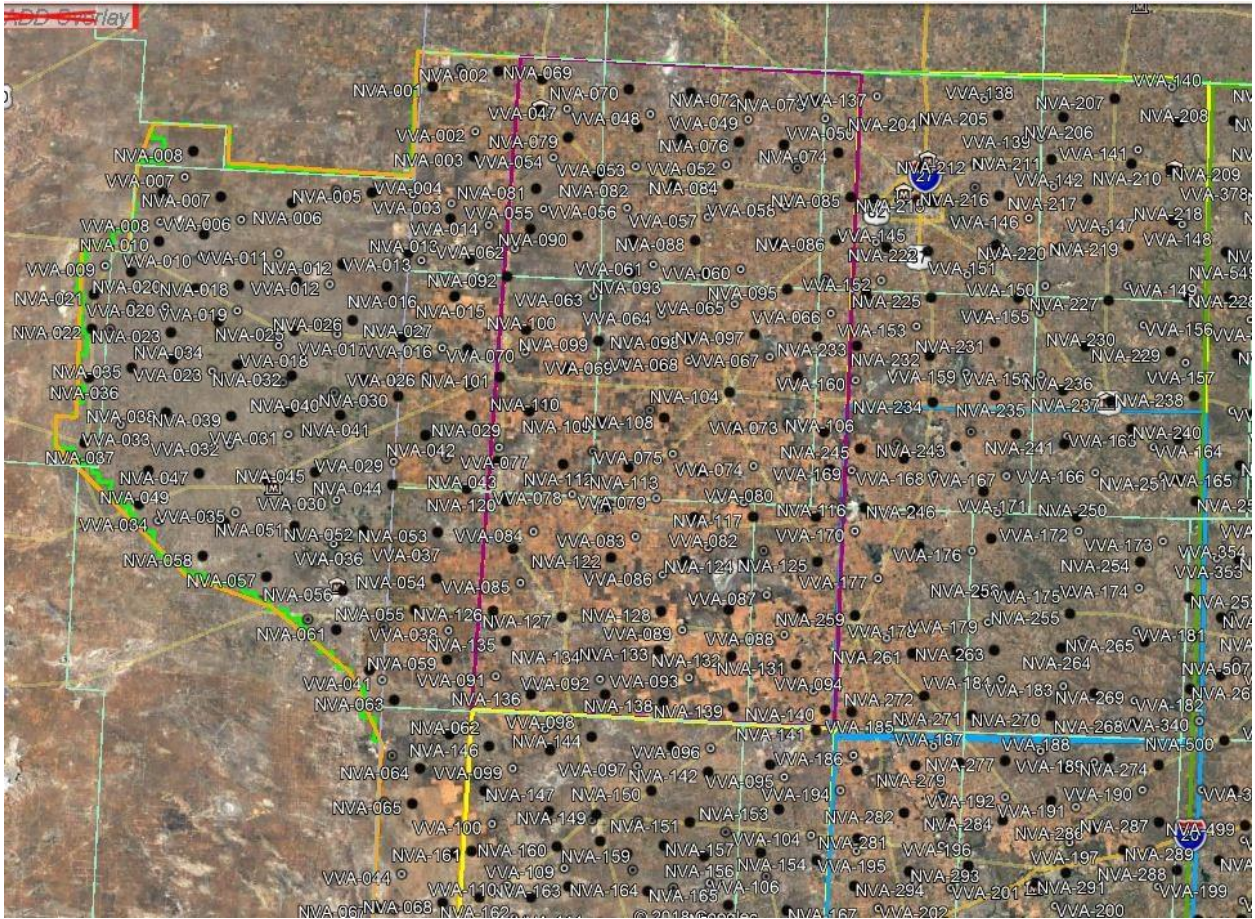
## **1.2 Points of Contact**

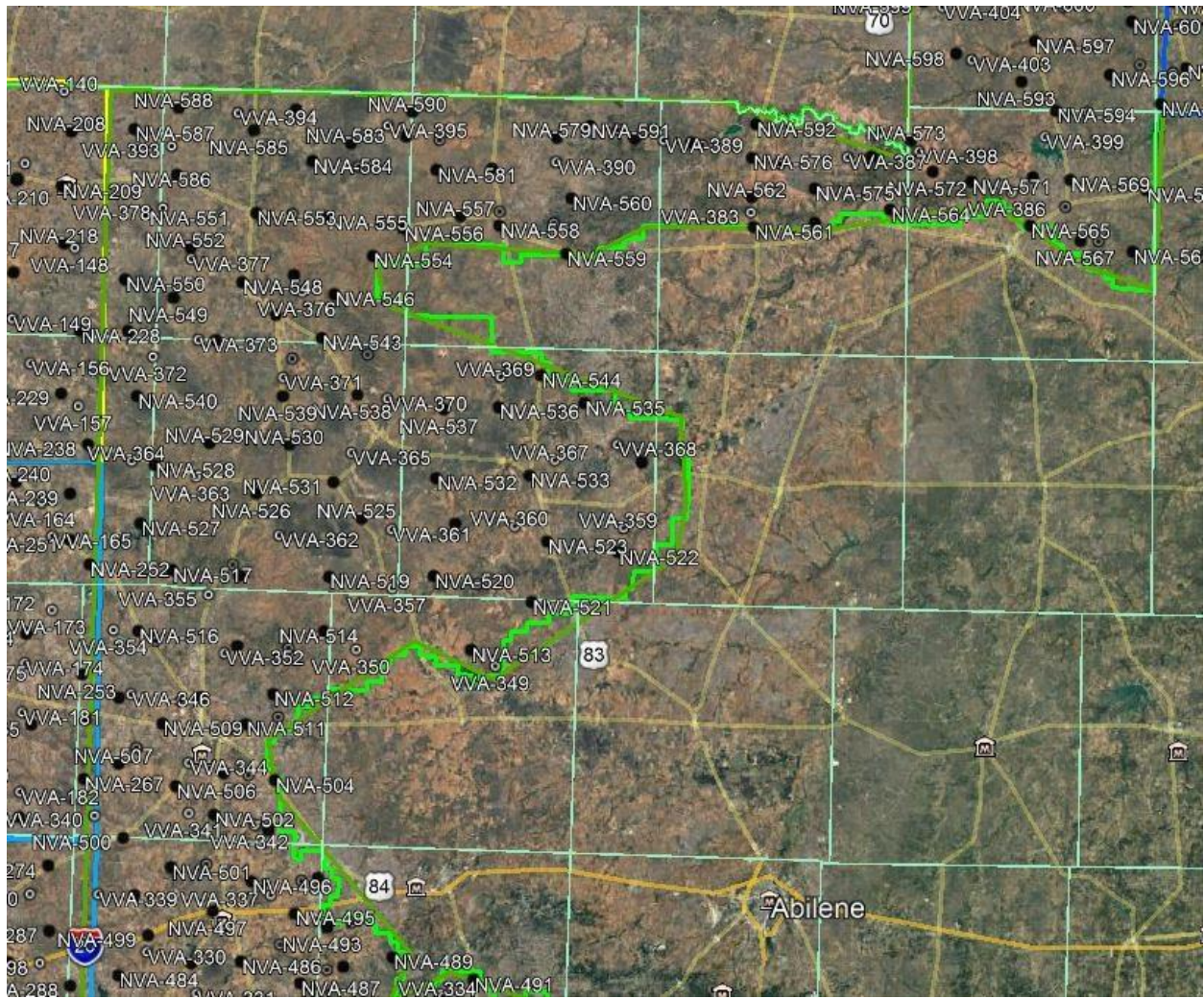
Questions regarding the technical aspects of this report should be addressed to:

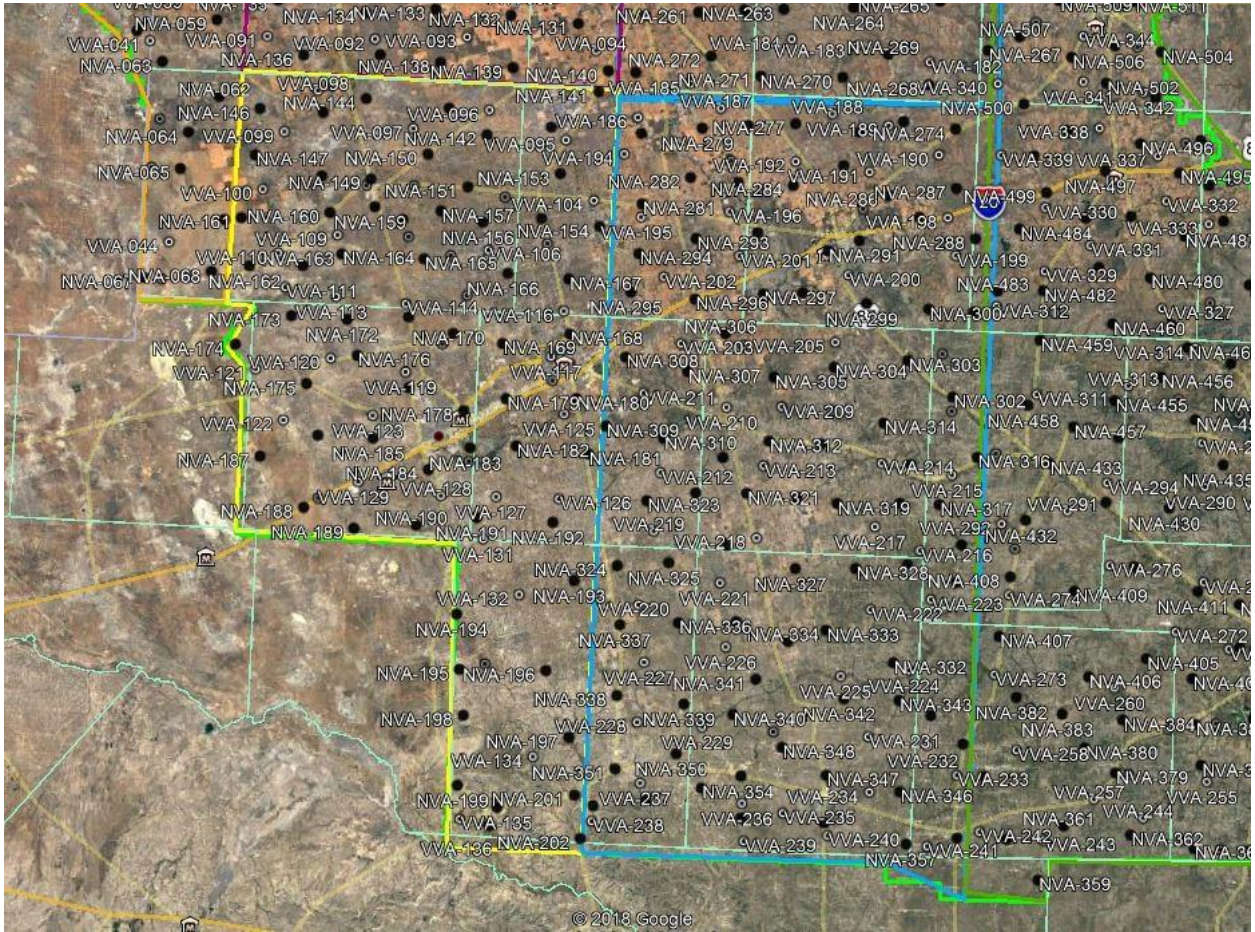
### **Dewberry Engineers Inc.**

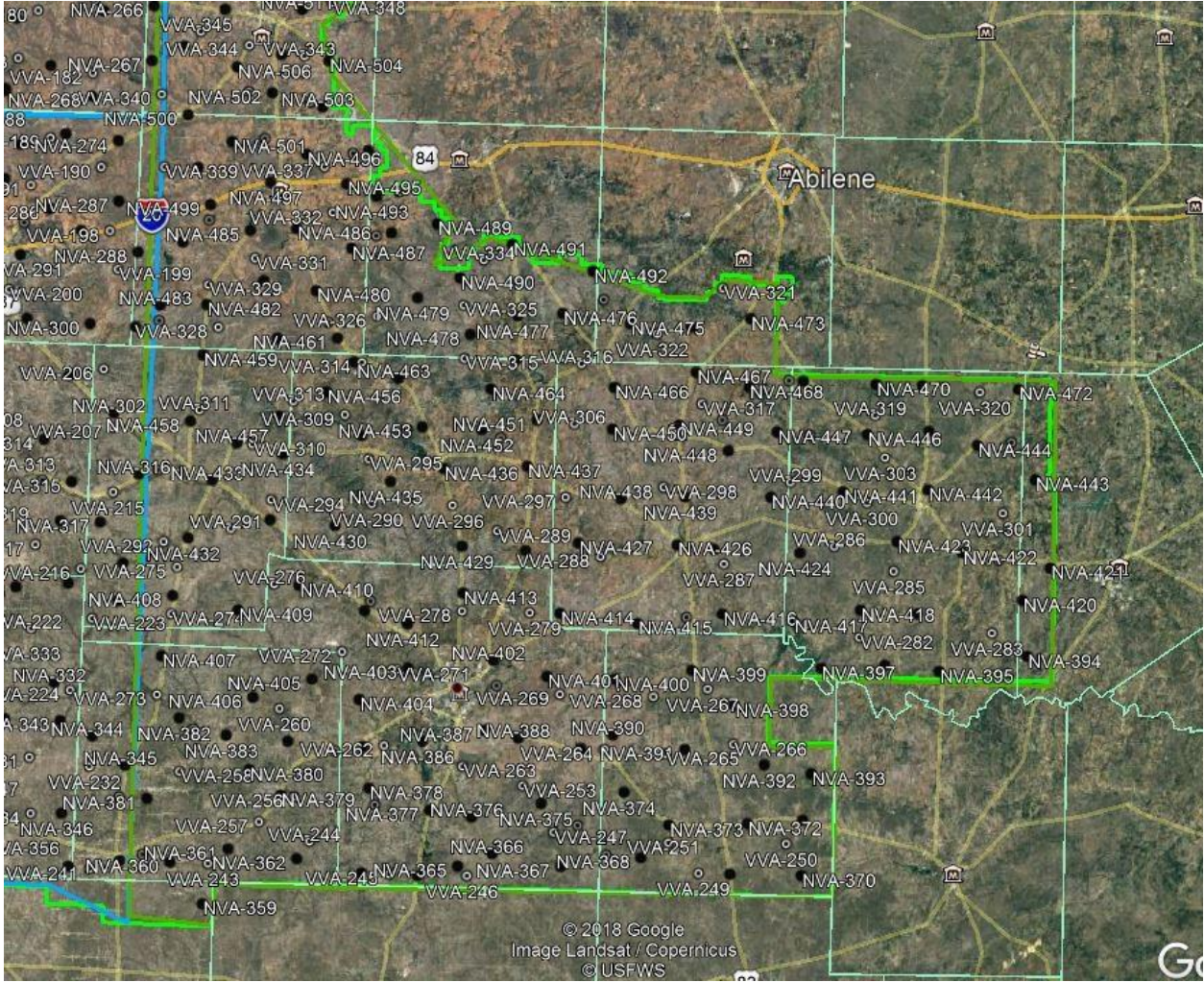
Gary D. Simpson, L.S.  
Senior Associate  
4601 Forbes Boulevard  
Suite 300  
Lanham, Maryland 20706  
(301) 364-1855 direct

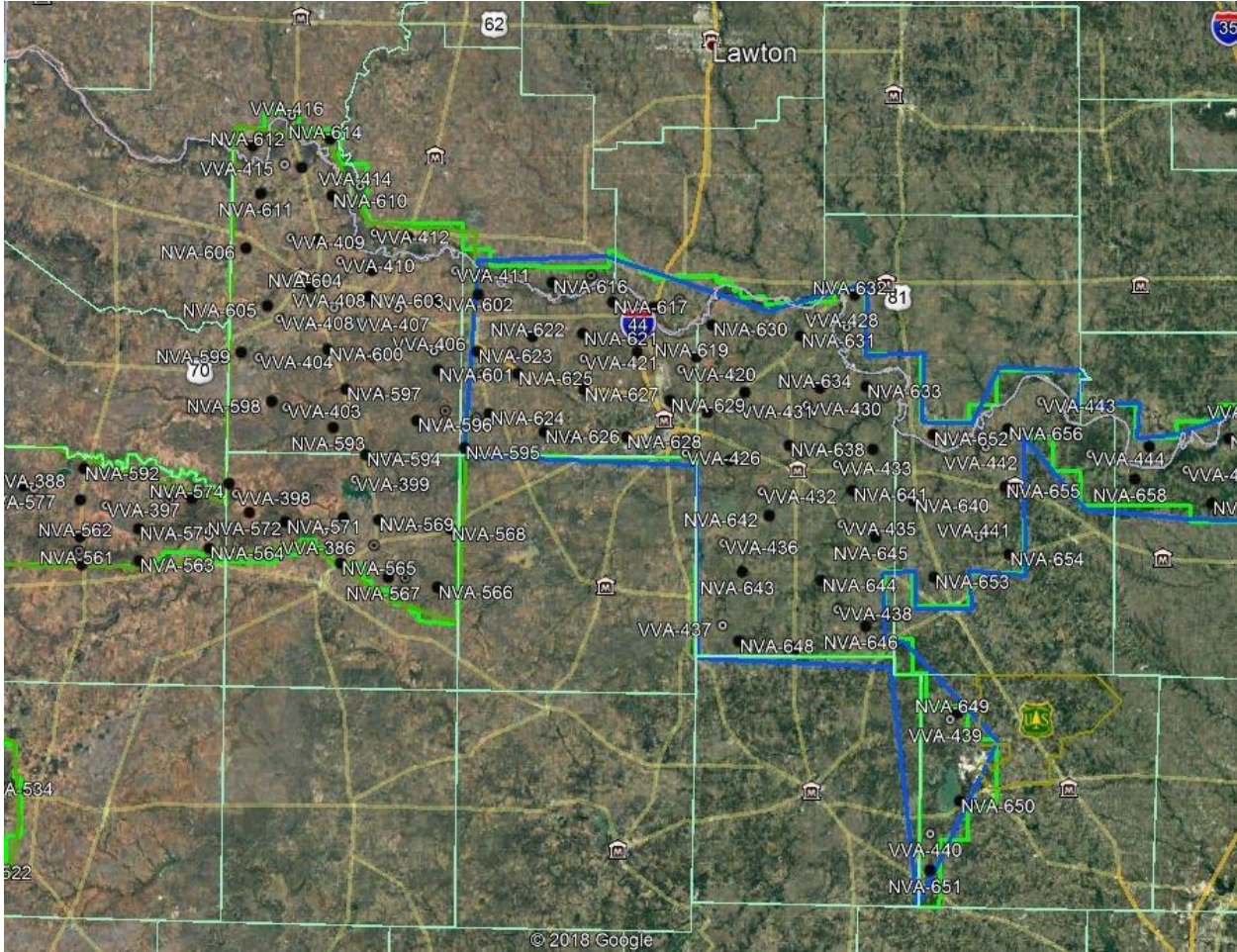
## **1.3 Project Areas**



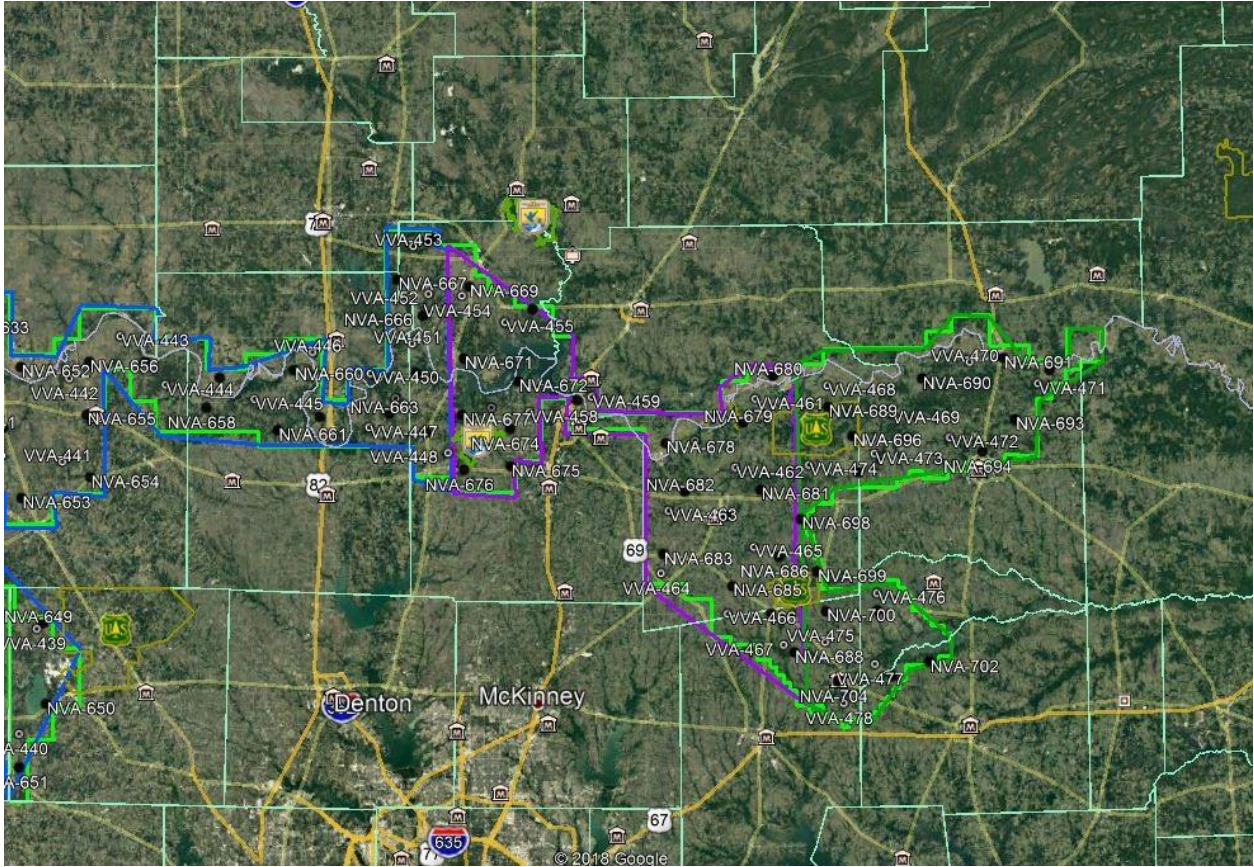












# PROJECT DETAILS

## **2.1 Survey Equipment**

In performing the GPS observations Trimble R-10 GNSS receiver/antenna attached to a two meter fixed height pole with a Trimble TSC3 Data Collector to collect GPS raw data were used to perform the field surveys.

## **2.2 Survey Point Detail**

The 1,183 Check Points were well distributed throughout the project area.

A sketch was made for each location and a nail was set at the point where possible or at an identifiable point. The Check Point locations are detailed on the “Check Point Documentation Report” sheets attached to this report.

## **2.3 Network Design**

The GPS survey performed by Dewberry Engineers Inc. office located in Lanham, MD was tied to a Real Time Network operated by TxDOT RTN. The network is a series of “real-time” continuously operating, high precision GPS reference stations. All of the reference stations have been linked together using Trimble GPSNet software, creating a Virtual Reference Station System (VRS).

The Trimble NetR5 Reference Station is a multi-channel, multi-frequency GNSS (Global Navigation Satellite System) receiver designed for use as a stand-alone reference station or as part of a GNSS infrastructure solution. Trimble R-Track technology in the NetR5 receiver supports the modernized GPS L2C and L5 signals as well as GLONASS L1/L2 signals.

## **2.4 Field Survey Procedures and Analysis**

Dewberry field surveyors used Trimble R-10 GNSS receivers, which is a geodetic quality dual frequency GPS receiver, to collect data at each surveyed location.

All locations were occupied once with approximately 50% of the locations being reobserved. All re-observations matched the initially derived station positions within

the allowable tolerance of  $\pm 5$ cm or within the 95% confidence level. Each occupation which utilized the VRS network was occupied for approximately three (3) minutes in duration and measured to 180 epochs.

Each occupation which utilized OPUS (if used) was occupied between 20 and 30 minutes.

Field GPS observations are detailed on the “Check Point Documentation Reports” submitted as part of this report.

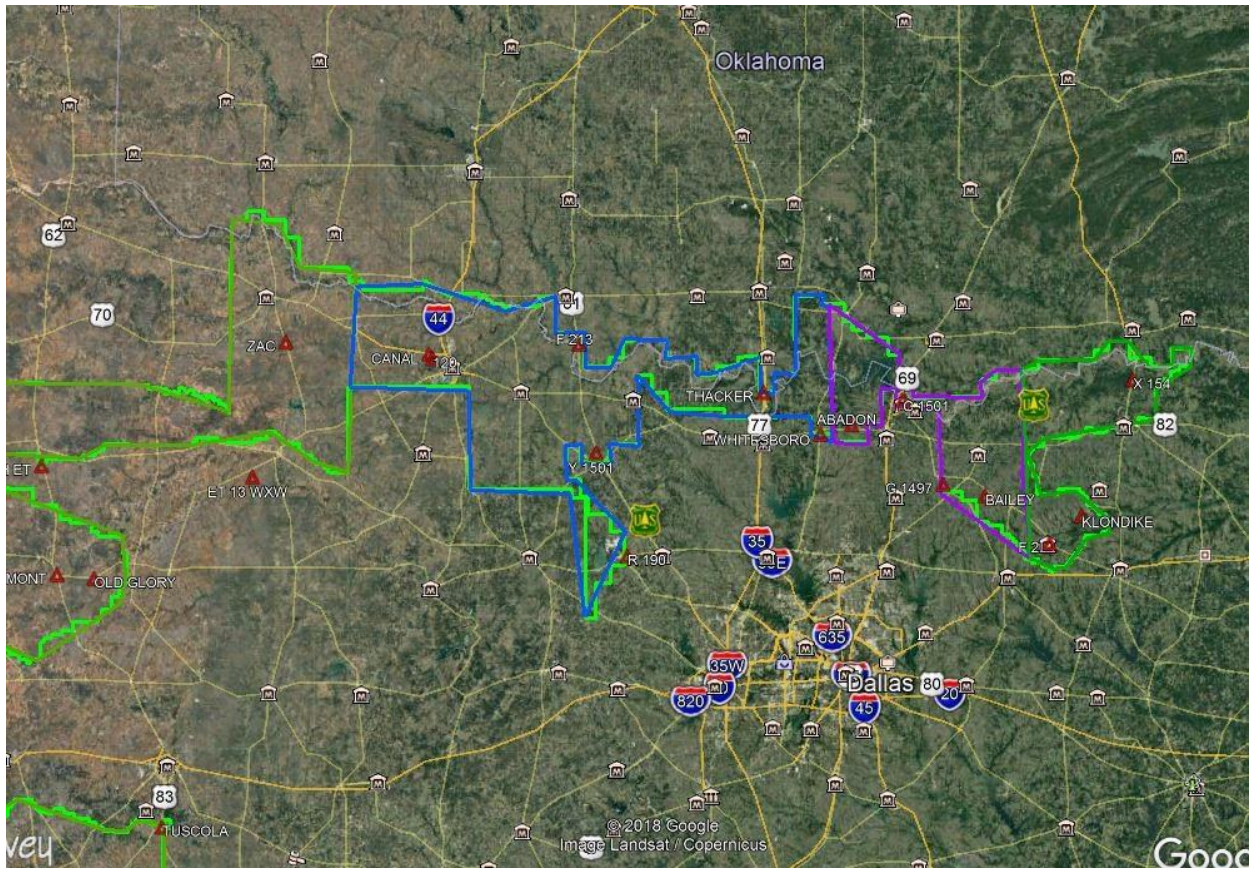
Twenty-nine (29) existing NGS monument listed in the NSRS database were located for the Texas areas as an additional QA/QC method to check the horizontal and vertical accuracy of the VRS network as well as being the primary project control monuments. The results are as follows:

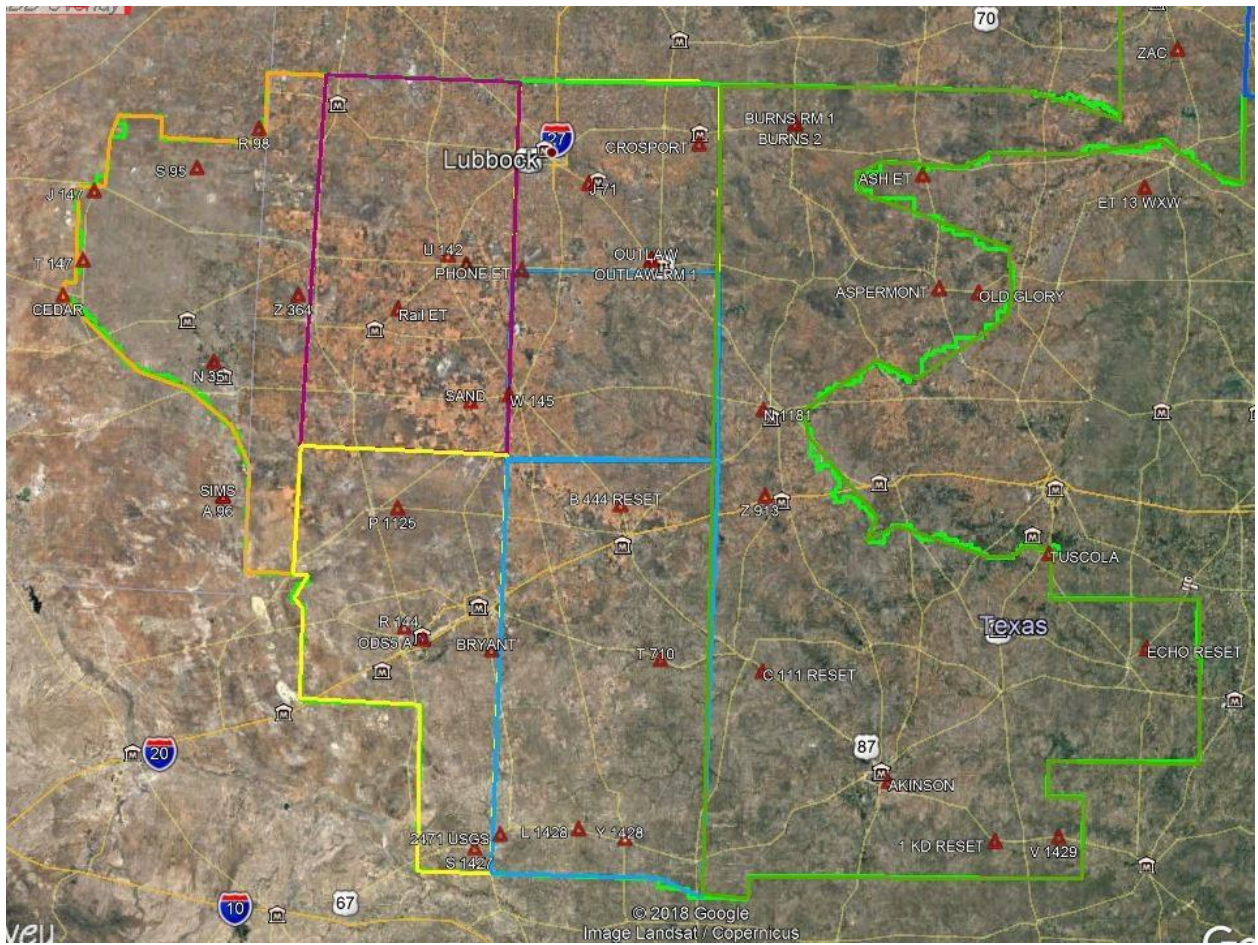
PT. #	Observed Values			Data Sheet Values			$\Delta X$	$\Delta Y$	$\Delta Z$
	NORTHING (m)	EASTING (m)	ELEV. (m)	NORTHING (m)	EASTING (m)	ELEV. (m)			
SAND	3622053.893	766797.500	927.649	3622053.881	766797.503	927.700	0.012	-0.003	-0.051
U142	3677753.362	754497.407	1013.943	3677753.394	754497.396	1013.943	-0.032	0.011	0.000
BAILY	3701343.430	762007.121	222.536	3701343.408	762007.074	N/A	0.022	0.047	N/A
C1501	3739672.385	728478.009	199.351	N/A	N/A	199.388	N/A	N/A	-0.037
G1497	3706007.577	744976.282	227.295	N/A	N/A	227.289	N/A	N/A	0.006
R144	3533680.039	746357.828	898.925	3533680.037	746357.819	898.922	0.002	0.009	0.003
ODSSA	3529400.423	753990.029	876.879	3529400.441	753990.034	876.912	-0.018	-0.005	-0.033
CROSPORT	3722715.202	292152.436	918.777	3722715.194	292152.415	918.750	0.008	0.021	0.027
J71	3707170.834	249469.622	958.555	3707170.861	249469.668	958.516	-0.027	-0.046	0.039
OUTLAW	3677779.536	273899.148	893.935	3677779.541	273899.187	893.895	-0.005	-0.039	0.040
CANAL	3757220.608	537089.373	314.396	3757220.589	537089.336	N/A	0.019	0.037	N/A
THACKER	3742479.263	672160.218	270.224	3742479.273	672160.204	N/A	-0.010	0.014	N/A
WHITESBORO	3725882.469	695223.106	240.838	3725882.451	695223.134	240.890	0.018	-0.028	-0.052
L1428	3458265.338	246930.333	822.058	N/A	N/A	822.025	N/A	N/A	0.033
Y1428	3454761.373	264942.044	821.716	3454761.363	264942.040	821.739	0.010	0.004	-0.023
2471USGS	3455865.115	216531.742	753.355	N/A	N/A	753.403	N/A	N/A	-0.048
DM1429	3727646.385	257459.07	174.787	3727646.387	257459.091	N/A	-0.002	-0.023	N/A
PRXE	3724087.783	272219.29	159.814	3724087.753	272219.309	159.840	0.030	-0.016	-0.026
AKINSON	3477092.323	366675.924	574.118	3477092.328	366675.912	574.152	-0.005	0.012	-0.034
C111RESET	3519550.030	317672.597	687.920	N/A	N/A	687.93	N/A	N/A	-0.010
ET13WXW	3707338.067	465714.632	431.912	3707338.012	465714.626	431.87	0.055	0.006	0.042
TUSCOLA	3565493.125	428629.948	613.822	3565493.125	428629.952	613.862	0.000	-0.004	-0.040
V1429	3455756.274	433361.34	596.922	N/A	N/A	596.93	N/A	N/A	-0.008
VERNPORT	3787268.059	473961.59	382.651	3787268.018	473961.573	382.61	0.041	0.013	0.041
Z913	3587090.48	318419.79	672.539	3587090.508	318419.731	672.526	-0.028	0.058	0.013
S95	3706100.398	654282.643	1249.910	N/A	N/A	1249.867	N/A	N/A	0.043
J147	3694916.564	614341.163	1366.439	3694916.601	614341.374	1366.380	-0.037	-0.211	0.059
N35	3631441.335	665979.254	1134.418	N/A	N/A	1134.368	N/A	N/A	0.050

A96	3579717.518	672798.964	1017.996	3579717.508	672798.968	1018.057	0.010	-0.004	-0.061
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The above results indicate that the VRS network is providing positional values within the 5cm parameters for this survey.

# NGS Monuments





## **2.5 Adjustment**

The survey data was collected using Virtual Reference Stations (VRS) methodology within a Virtual Reference System (VRS).

The system is designed to provide a true Network RTK performance, the RTKNet software enables high-accuracy positioning in real time across a geographic region. The RTKNet software package uses real-time data streams from TxDOT RTN system user and generates correction models for high-accuracy RTK GPS corrections throughout the network. Therefore, corrections were applied to the points as they were being collected, thus negating the need for a post process adjustment.

## **2.6 Data Processing Procedures**

After field data is collected the information is downloaded from the data collectors into the office software. The Software program used is called TBC or Trimble Business Center.

Downloaded data is run through the TBC program to obtain the following reports; points report, point comparison report and a point detail report. The reports are reviewed for point accuracy and precision.

After review of the point data an “ASCII” or “txt” file which is the industry standard is created. Point files are loaded into our CADD program (Carlson Survey 2017) to make a visual check of the point data (Pt. #, Coordinates, Elev. and Description). The data can now be imported into the final product.

## **3. FINAL COORDINATES**

**TEXAS WEST & CENTRAL LIDAR 2018**

UTM Zone 13 North NAD83 (2011), Meters			
Check Points			
POINT ID	NORTHING (m)	EASTING (m)	ELEVS. (m)
<b>NVA</b>			
NVA-1	3737093.684	683409.755	1201.762
NVA-2	3741527.179	697685.141	1172.569
NVA-3	3722367.066	693629.723	1178.894
NVA-4	3708305.624	689502.137	1182.525
NVA-5	3712849.805	671718.753	1218.401
NVA-6	3709339.451	654187.874	1255.744
NVA-7	3709666.863	638288.486	1315.625
NVA-8	3719269.171	631417.719	1337.171
NVA-9	3709622.643	625287.374	1319.841
NVA-10	3698922.303	625288.129	1318.432
NVA-11	3701121.701	635185.118	1282.238
NVA-12	3696657.011	666343.247	1211.129
NVA-13	3700147.698	680763.267	1191.636
NVA-14	3699513.978	694467.930	1160.438
NVA-15	3691284.777	691711.115	1165.092
NVA-16	3692486.757	680763.817	1179.818
NVA-17	3692106.866	656537.811	1231.354
NVA-18	3690479.840	643742.583	1263.024
NVA-19	3689089.774	634144.886	1285.351
NVA-20	3691809.835	619608.726	1334.735
NVA-21	3686260.590	611640.953	1358.734
NVA-22	3678641.611	611732.614	1348.264
NVA-23	3679025.375	629427.045	1300.959
NVA-24	3682138.770	639818.785	1269.384
NVA-25	3681320.309	656797.764	1219.530
NVA-26	3684469.924	669489.343	1190.936
NVA-27	3681491.772	680793.299	1154.749
NVA-28	3679907.696	695343.737	1130.962



NVA-29	3665451.124	697091.991	1116.124
NVA-30	3668576.375	680790.636	1153.122
NVA-31	3671652.194	672944.313	1176.622
NVA-32	3671381.098	656898.046	1210.879

NVA-33	3669569.924	644019.474	1249.629
NVA-34	3673204.413	630317.529	1291.371
NVA-35	3670639.595	621262.235	1314.184
NVA-36	3667807.594	611860.254	1346.568
NVA-37	3653444.577	611971.798	1341.188
NVA-38	3661346.983	629619.423	1282.877
NVA-39	3661564.920	644126.520	1240.313
NVA-40	3663348.443	656999.390	1204.384
NVA-41	3663510.424	668264.827	1171.046
NVA-42	3660422.063	687422.254	1130.593
NVA-43	3649327.032	697379.670	1094.710
NVA-44	3649024.795	680885.252	1132.058
NVA-45	3650572.785	663645.560	1169.398
NVA-46	3648267.275	653133.470	1197.725
NVA-47	3648509.990	637894.229	1246.834
NVA-48	3648313.768	626605.323	1284.479
NVA-49	3640813.902	625056.623	1283.465
NVA-50	3638107.160	644342.386	1213.009
NVA-51	3638430.322	659909.096	1162.129
NVA-52	3638518.043	675205.149	1128.626
NVA-53	3639343.200	691635.993	1093.681
NVA-54	3629180.490	692025.265	1078.117
NVA-55	3622099.584	687889.162	1078.982
NVA-56	3624970.917	671576.629	1114.665
NVA-57	3625011.484	654463.854	1166.470
NVA-58	3630447.645	639981.472	1216.682
NVA-59	3611481.332	695613.202	1054.217
NVA-60	3607973.750	678005.406	1090.260

NVA-61	3616326.170	670724.891	1099.556
NVA-62	3593910.011	699852.936	1018.190
NVA-63	3603642.659	684855.988	1067.014
NVA-64	3587233.374	691309.371	1042.511
NVA-65	3579345.341	690127.849	1022.143
NVA-66	3569130.481	700365.938	996.048
NVA-67	3555740.299	684017.924	951.984
NVA-68	3558040.259	698342.005	976.281
NVA-69	3740231.892	707445.088	1146.679
NVA-70	3739554.120	726762.188	1110.943
NVA-71	3739774.632	740547.780	1060.038

NVA-72	3739964.830	753488.899	1049.583
NVA-73	3739940.238	768230.700	1027.869
NVA-74	3728915.118	774063.009	1019.929
NVA-75	3729744.523	761934.002	1039.214
NVA-76	3729666.668	751938.659	1056.256
NVA-77	3729512.841	739065.130	1094.894
NVA-78	3731326.153	729446.320	1107.883
NVA-79	3727975.379	714171.256	1139.359
NVA-80	3733405.774	707517.822	1147.329
NVA-81	3716231.981	707948.605	1144.830
NVA-82	3720311.640	721427.744	1121.489
NVA-83	3719370.639	738014.489	1080.162
NVA-84	3720377.110	755513.048	1047.100
NVA-85	3719749.458	771150.890	1019.760
NVA-86	3709584.102	774491.470	1011.741
NVA-87	3708073.255	761750.342	1033.530
NVA-88	3707315.530	743850.130	1056.573
NVA-89	3706468.371	730098.457	1087.255
NVA-90	3706467.652	717846.099	1115.081
NVA-91	3707221.560	707272.019	1144.324
NVA-92	3696373.841	702900.418	1143.810

NVA-93	3699261.930	730160.270	1082.074
NVA-94	3699950.190	746378.683	1055.861
NVA-95	3697662.370	764878.488	1014.133
NVA-96	3688097.269	772263.411	995.015
NVA-97	3687680.539	758418.538	1008.922
NVA-98	3685774.182	744196.797	1040.672
NVA-99	3683739.979	724102.069	1078.080
NVA-100	3685076.817	707975.772	1114.827
NVA-101	3674328.295	702981.267	1107.347
NVA-102	3677096.947	717797.520	1087.883
NVA-103	3679239.429	737980.387	1039.715
NVA-104	3674545.605	753786.420	1009.625
NVA-105	3679117.423	768522.545	989.514
NVA-106	3667260.452	775304.041	975.749
NVA-107	3666896.499	755959.716	993.073
NVA-108	3667938.851	739751.106	1026.833
NVA-109	3665981.014	726051.604	1059.997
NVA-110	3667289.568	709968.787	1090.786

NVA-111	3655893.585	703701.794	1097.849
NVA-112	3656163.467	718204.741	1064.270
NVA-113	3656460.263	732664.341	1032.788
NVA-114	3656882.390	748774.050	994.399
NVA-115	3659255.641	777123.363	948.715
NVA-116	3648507.203	774491.120	944.935
NVA-117	3647611.063	760880.066	960.687
NVA-118	3646626.435	748018.100	982.837
NVA-119	3647742.203	728659.306	1017.842
NVA-120	3647238.412	706295.234	1072.111
NVA-121	3636927.106	708545.080	1049.527
NVA-122	3636495.127	730253.805	1007.370
NVA-123	3636896.611	746658.065	960.672
NVA-124	3637488.307	759624.670	937.494

NVA-125	3638788.552	775829.621	931.030
NVA-126	3622956.435	705064.774	1042.667
NVA-127	3622720.693	720337.578	1009.611
NVA-128	3625480.328	742084.184	975.127
NVA-129	3626871.759	757024.711	956.785
NVA-130	3627729.664	773091.715	920.962
NVA-131	3615916.527	772739.292	906.681
NVA-132	3616659.182	758290.425	915.642
NVA-133	3616831.465	742188.698	955.342
NVA-134	3615130.005	727291.319	980.470
NVA-135	3616579.323	708418.783	1018.624
NVA-136	3605220.965	714683.288	1008.329
NVA-137	3606374.127	731050.981	982.707
NVA-138	3605616.091	744018.365	934.158
NVA-139	3605550.607	759473.718	907.320
NVA-140	3606328.676	779815.692	893.937
NVA-141	3601796.593	778115.902	887.639
NVA-142	3590931.755	754981.814	909.889
NVA-143	3596022.453	746528.043	929.496
NVA-144	3596884.935	728744.047	963.139
NVA-145	3593316.923	719762.824	978.839
NVA-146	3593215.672	706255.116	1013.774
NVA-147	3583368.458	705878.268	1008.249
NVA-148	3579832.262	720461.359	973.617
NVA-149	3579901.267	730955.203	967.111

NVA-150	3585983.146	742722.809	932.368
NVA-151	3579609.694	751699.643	917.257
NVA-152	3593505.302	768569.429	881.988
NVA-153	3583798.262	771176.865	882.844
NVA-154	3573194.485	780328.700	850.272
NVA-155	3574040.796	767871.032	881.477
NVA-156	3572397.066	755397.579	895.897

NVA-157	3574140.540	746350.501	924.414
NVA-158	3571764.720	738412.412	943.474
NVA-159	3574074.236	732255.623	968.085
NVA-160	3572194.794	722764.471	974.896
NVA-161	3569837.852	703960.761	1015.085
NVA-162	3559734.638	706432.268	1020.296
NVA-163	3560581.541	717798.956	980.512
NVA-164	3563595.734	725913.077	970.271
NVA-165	3563780.697	743486.423	934.087
NVA-166	3561943.731	761507.598	882.332
NVA-167	3560927.017	772165.865	878.622
NVA-168	3550020.236	775570.921	853.101
NVA-169	3547055.556	761442.165	877.753
NVA-170	3548412.813	750815.781	900.462
NVA-171	3551239.576	741087.147	923.094
NVA-172	3550399.492	727849.032	944.121
NVA-173	3549802.297	716132.144	983.947
NVA-174	3547960.292	709944.415	1017.372
NVA-175	3535696.648	720347.568	975.471
NVA-176	3542396.651	730735.379	951.297
NVA-177	3536338.984	742223.602	915.308
NVA-178	3532291.994	754145.510	883.840
NVA-179	3535369.398	763038.078	876.625
NVA-180	3536538.186	777913.609	844.635
NVA-181	3525594.267	781121.231	834.760
NVA-182	3525634.371	765830.712	861.738
NVA-183	3524535.143	756110.948	869.229
NVA-184	3519355.318	747547.516	885.444
NVA-185	3525147.425	735311.406	907.687
NVA-186	3527098.351	729673.098	949.297
NVA-187	3519696.770	711513.047	908.350
NVA-188	3509520.019	721549.479	872.283

NVA-189	3505845.447	732540.193	862.179
NVA-190	3507456.888	745738.465	895.241
NVA-191	3509990.870	758555.233	890.264
NVA-192	3510023.897	774771.945	863.518
NVA-193	3500114.431	783805.388	854.733
NVA-194	3489280.149	755639.050	809.658
NVA-195	3477623.011	757062.624	792.668
NVA-196	3478636.318	775437.089	860.297
NVA-197	3464827.495	781265.278	778.473
NVA-198	3467998.665	758570.869	877.470
NVA-199	3453097.683	758289.690	768.850
NVA-200	3448993.465	767080.745	756.999
NVA-201	3452622.733	783182.043	736.346
NVA-202	3443614.294	785209.362	720.730
NVA-203	3444954.211	765556.125	728.274
<b>TEXAS WEST &amp; CENTRAL LIDAR 2018</b>			
<b>UTM Zone 14 North NAD83 (2011), Meters</b>			
<b>Check Points</b>			
<b>POINT ID</b>	<b>NORTHING (m)</b>	<b>EASTING (m)</b>	<b>ELEVS. (m)</b>
<b>NVA</b>			
NVA-204	3736660.411	237392.646	1006.835
NVA-205	3738022.695	253063.579	989.376
NVA-206	3737780.102	267577.937	965.820
NVA-207	3742188.131	278930.498	953.518
NVA-208	3737169.621	293324.620	935.397
NVA-209	3726522.597	291618.354	923.199
NVA-210	3727805.834	282858.131	941.852
NVA-211	3728360.126	264854.340	965.821
NVA-212	3727184.967	248244.827	972.212
NVA-213	3726447.684	236319.952	974.381
NVA-214	3719047.309	225758.958	998.942
NVA-215	3718647.443	239296.313	968.895

NVA-216	3720179.297	253473.677	956.333
NVA-217	3719710.024	273118.202	944.844
NVA-218	3715443.399	292226.512	911.871
NVA-219	3709753.722	282441.735	917.950
NVA-220	3708593.952	266422.473	928.809
NVA-221	3709270.040	252926.947	944.387
NVA-222	3707695.437	237748.340	967.521

NVA-223	3708484.660	228607.637	993.440
NVA-224	3697882.529	224275.935	994.917
NVA-225	3697530.737	238676.787	969.827
NVA-226	3697727.520	258036.901	932.304
NVA-227	3697525.266	278113.747	787.250
NVA-228	3698567.854	295643.470	741.030
NVA-229	3686469.624	292091.501	707.632
NVA-230	3687315.590	273078.412	810.107
NVA-231	3687901.061	252947.955	937.576
NVA-232	3684673.810	238580.237	954.829
NVA-233	3686645.994	222398.203	984.886
NVA-234	3674454.931	239325.925	943.296
NVA-235	3676209.333	253116.537	920.820
NVA-236	3677544.833	268194.891	894.052
NVA-237	3675267.589	278800.359	791.420
NVA-238	3676644.520	297457.531	759.132
NVA-239	3667122.850	294132.181	702.541
NVA-240	3669265.286	283556.144	757.516
NVA-241	3665716.922	268685.088	872.591
NVA-242	3667762.324	257796.509	895.926
NVA-243	3664885.373	244558.643	919.271
NVA-244	3662001.648	233078.379	946.130
NVA-245	3664058.199	223360.902	953.220
NVA-246	3651124.439	224571.004	931.278
NVA-247	3650961.666	235269.740	928.551

NVA-248	3655042.890	250837.051	910.002
NVA-249	3644687.046	252711.901	900.595
NVA-250	3649720.834	271714.488	772.133
NVA-251	3658119.097	294221.182	685.726
NVA-252	3653573.077	298154.138	695.430
NVA-253	3632232.758	296952.580	769.501
NVA-254	3639966.115	285932.016	785.970
NVA-255	3628353.494	270445.877	789.857
NVA-256	3634093.968	256978.372	898.590
NVA-257	3632501.991	250709.220	843.490
NVA-258	3642622.611	236734.562	893.442
NVA-259	3627320.406	222764.491	915.104
NVA-260	3618215.349	224306.793	897.843
NVA-261	3619185.770	235556.499	883.310

NVA-262	3619804.916	245353.021	883.560
NVA-263	3620079.271	253776.079	806.159
NVA-264	3620784.963	268681.011	767.845
NVA-265	3622403.581	287181.036	720.890
NVA-266	3623557.040	297786.291	718.845
NVA-267	3612068.116	297532.502	712.462
NVA-268	3604517.802	284972.622	715.076
NVA-269	3610868.890	276152.511	733.530
NVA-270	3605770.035	266507.351	758.902
NVA-271	3605751.787	249026.394	852.643
NVA-272	3609842.630	238333.079	873.697
NVA-273	3606190.320	222311.228	879.788
NVA-274	3595166.238	290764.232	717.909
NVA-275	3596572.357	279610.825	782.817
NVA-276	3594201.986	270220.046	823.945
NVA-277	3595769.751	256575.812	836.183
NVA-278	3595193.509	246468.553	821.176
NVA-279	3594521.218	236659.721	819.707



NVA-280	3593211.918	223718.744	834.474
NVA-281	3578262.545	224061.277	862.662
NVA-282	3583997.803	234290.571	796.049
NVA-283	3583092.060	244509.906	783.030
NVA-284	3582663.573	256267.494	780.357
NVA-285	3587045.158	266915.893	813.635
NVA-286	3580835.114	276616.714	773.980
NVA-287	3582544.771	291105.759	692.858
NVA-288	3571924.594	295299.322	698.447
NVA-289	3576354.454	283253.552	738.679
NVA-290	3571144.031	270451.335	731.086
NVA-291	3568872.317	263801.272	784.716
NVA-292	3572515.587	248771.723	749.989
NVA-293	3571095.707	235710.227	837.613
NVA-294	3567697.530	223542.815	851.576
NVA-295	3559507.146	221916.257	830.788
NVA-296	3558249.907	235572.557	818.548
NVA-297	3559559.211	250120.551	761.905
NVA-298	3559941.310	258652.994	765.935
NVA-299	3557790.199	272113.644	852.028
NVA-300	3556853.287	285487.469	740.611

NVA-301	3556365.943	295050.130	733.183
NVA-302	3538262.357	290832.218	756.808
NVA-303	3545923.757	281171.572	787.809
NVA-304	3544246.217	265474.110	795.788
NVA-305	3541961.497	252714.582	775.473
NVA-306	3551020.287	242216.540	807.447
NVA-307	3543028.205	234211.748	807.431
NVA-308	3545736.525	220983.652	835.307
NVA-309	3531081.697	217011.675	822.170
NVA-310	3528722.430	229342.324	799.907
NVA-311	3524813.735	242055.034	805.982

NVA-312	3528428.337	251809.164	830.426
NVA-313	3527974.966	262887.861	806.317
NVA-314	3532579.161	276173.386	831.002
NVA-315	3523811.920	282090.979	797.558
NVA-316	3525607.434	296239.183	744.891
NVA-317	3515512.779	288296.971	807.975
NVA-318	3515647.011	279884.471	821.569
NVA-319	3515402.847	266473.602	828.022
NVA-320	3516612.853	257911.481	824.618
NVA-321	3517303.876	247200.617	821.765
NVA-322	3517807.839	236180.841	804.543
NVA-323	3515417.047	225950.612	845.246
NVA-324	3501608.513	219876.932	849.125
NVA-325	3502390.942	230808.072	835.088
NVA-326	3506211.263	243150.172	826.280
NVA-327	3501495.438	257784.107	814.261
NVA-328	3501810.023	270623.798	819.566
NVA-329	3502651.485	281686.973	809.891
NVA-330	3506970.752	293187.818	763.516
NVA-331	3499090.567	292206.718	796.889
NVA-332	3481861.107	278990.461	746.150
NVA-333	3488563.760	264522.003	808.065
NVA-334	3486110.228	256413.869	812.070
NVA-335	3490138.978	245392.163	811.309
NVA-336	3489701.750	233069.757	823.550
NVA-337	3489097.008	220618.372	837.230
NVA-338	3474121.874	220223.233	824.921
NVA-339	3472563.578	234609.674	811.184

NVA-340	3470458.639	244936.579	795.121
NVA-341	3477961.622	249738.833	783.821
NVA-342	3474110.326	268569.008	796.983
NVA-343	3473922.451	280331.777	736.382

NVA-344	3470809.757	287128.849	736.084
NVA-345	3464815.017	294164.467	757.362
NVA-346	3454530.699	280812.578	823.166
NVA-347	3455503.062	264922.635	812.974
NVA-348	3463603.936	255517.503	807.857
NVA-349	3457463.620	246872.984	832.266
NVA-350	3461975.671	233025.955	823.886
NVA-351	3458580.613	220026.173	786.209
NVA-352	3450697.318	215468.699	758.497
NVA-353	3451957.524	226638.341	903.477
NVA-354	3454786.507	238468.432	857.701
NVA-355	3448535.723	246988.869	895.208
NVA-356	3447768.210	264746.312	814.014
NVA-357	3443452.007	282385.620	820.831
NVA-358	3444852.800	293189.058	789.093
NVA-359	3436141.031	310747.065	783.578
NVA-360	3444700.912	303799.396	750.659
NVA-361	3447693.214	316030.710	711.250
NVA-362	3445890.489	330460.693	698.062
NVA-363	3441251.846	347403.122	718.487
NVA-364	3442767.020	355812.492	645.157
NVA-365	3444881.935	364205.432	682.856
NVA-366	3447629.422	371389.318	672.738
NVA-368	3447227.446	402532.188	680.500
NVA-369	3444025.638	421273.572	642.561
NVA-370	3443886.910	436197.492	617.490
NVA-371	3455444.898	436294.993	581.129
NVA-372	3454615.923	424745.768	606.013
NVA-373	3454098.116	408344.800	652.717
NVA-374	3461760.980	401104.781	579.618
NVA-375	3458203.932	381507.671	642.136
NVA-376	3455133.176	367085.674	650.595
NVA-377	3456427.266	358268.033	618.589

<b>NVA-378</b>	<b>3460875.223</b>	<b>345446.191</b>	<b>624.356</b>
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<b>NVA-379</b>	<b>3459091.926</b>	<b>326948.681</b>	<b>675.258</b>
<b>NVA-380</b>	<b>3464308.417</b>	<b>320283.988</b>	<b>734.392</b>
<b>NVA-381</b>	<b>3451598.963</b>	<b>316861.226</b>	<b>734.344</b>
<b>NVA-382</b>	<b>3474845.359</b>	<b>305420.323</b>	<b>696.489</b>
<b>NVA-383</b>	<b>3471451.012</b>	<b>315331.905</b>	<b>672.729</b>
<b>NVA-384</b>	<b>3470355.951</b>	<b>328307.175</b>	<b>671.112</b>
<b>NVA-385</b>	<b>3467798.274</b>	<b>343960.547</b>	<b>609.306</b>
<b>NVA-386</b>	<b>3470793.399</b>	<b>356573.092</b>	<b>577.851</b>
<b>NVA-387</b>	<b>3473275.653</b>	<b>369348.004</b>	<b>568.425</b>
<b>NVA-388</b>	<b>3471805.413</b>	<b>376563.230</b>	<b>569.890</b>
<b>NVA-389</b>	<b>3469775.015</b>	<b>389679.613</b>	<b>564.659</b>
<b>NVA-390</b>	<b>3472708.312</b>	<b>396309.147</b>	<b>553.088</b>
<b>NVA-391</b>	<b>3469874.246</b>	<b>411400.511</b>	<b>568.806</b>
<b>NVA-392</b>	<b>3466917.518</b>	<b>428086.720</b>	<b>534.211</b>
<b>NVA-393</b>	<b>3465155.970</b>	<b>437939.428</b>	<b>527.781</b>
<b>NVA-394</b>	<b>3490211.979</b>	<b>482894.133</b>	<b>457.142</b>
<b>NVA-395</b>	<b>3486859.218</b>	<b>464448.891</b>	<b>454.756</b>
<b>NVA-396</b>	<b>3487962.360</b>	<b>452969.330</b>	<b>471.240</b>
<b>NVA-397</b>	<b>3487181.032</b>	<b>439681.857</b>	<b>484.743</b>
<b>NVA-398</b>	<b>3479163.797</b>	<b>421744.492</b>	<b>520.468</b>
<b>NVA-399</b>	<b>3486368.158</b>	<b>412646.691</b>	<b>496.744</b>
<b>NVA-400</b>	<b>3484221.130</b>	<b>396572.945</b>	<b>529.881</b>
<b>NVA-401</b>	<b>3484710.710</b>	<b>382383.832</b>	<b>553.514</b>
<b>NVA-402</b>	<b>3487903.481</b>	<b>371139.843</b>	<b>564.488</b>
<b>NVA-403</b>	<b>3486012.810</b>	<b>353295.123</b>	<b>595.449</b>
<b>NVA-404</b>	<b>3479308.841</b>	<b>343292.710</b>	<b>634.578</b>
<b>NVA-405</b>	<b>3483400.649</b>	<b>333173.632</b>	<b>647.531</b>
<b>NVA-406</b>	<b>3476680.240</b>	<b>319749.621</b>	<b>711.677</b>
<b>NVA-407</b>	<b>3487753.623</b>	<b>301543.022</b>	<b>782.572</b>
<b>NVA-408</b>	<b>3500382.295</b>	<b>303742.647</b>	<b>791.215</b>
<b>NVA-409</b>	<b>3497585.931</b>	<b>317498.509</b>	<b>729.811</b>

NVA-410	3502905.858	330221.389	654.473
NVA-411	3497904.174	344063.616	616.653
NVA-412	3495014.519	353125.147	606.232
NVA-413	3501793.391	364554.802	650.023
NVA-414	3497845.746	384940.450	563.031
NVA-415	3495936.783	401178.685	514.978
NVA-416	3498201.842	418882.521	486.095
NVA-417	3499538.162	434185.803	506.420

NVA-418	3499387.066	447750.885	514.945
NVA-419	3498782.756	459708.471	491.284
NVA-420	3501897.483	481735.592	448.428
NVA-421	3508667.427	487468.546	486.985
NVA-422	3511628.734	468988.218	530.188
NVA-423	3513782.061	455174.389	507.382
NVA-424	3511124.579	434899.541	590.212
NVA-425	3511610.457	416908.979	523.281
NVA-426	3512468.042	409214.014	506.756
NVA-427	3512549.153	388553.817	529.844
NVA-428	3510794.145	377513.136	571.906
NVA-429	3511556.461	364252.798	654.197
NVA-430	3515460.680	337599.063	770.796
NVA-431	3516477.425	323985.704	668.896
NVA-432	3512434.440	306792.205	732.079
NVA-433	3524548.908	311699.839	699.091
NVA-434	3530234.720	326495.314	791.116
NVA-435	3524800.648	349082.216	637.113
NVA-436	3527623.494	360178.663	553.915
NVA-437	3528371.089	377609.536	546.833
NVA-438	3521836.826	397274.679	548.409
NVA-439	3522458.888	410721.398	520.210
NVA-440	3522655.470	428634.351	568.685
NVA-441	3524022.932	443765.554	599.602

NVA-442	3524655.878	461521.559	523.618
NVA-443	3527020.824	483981.894	457.641
NVA-444	3534042.987	471786.527	489.633
NVA-445	3536843.102	461554.181	502.528
NVA-446	3535991.241	448624.817	605.969
NVA-447	3536178.800	429771.787	615.602
NVA-448	3532182.162	419603.173	546.454
NVA-449	3537382.762	409296.065	566.551
NVA-450	3536367.184	395329.567	594.985
NVA-451	3537993.365	379574.789	606.304
NVA-452	3535871.145	367996.968	633.075
NVA-453	3536272.689	355603.029	626.052
NVA-454	3534290.839	342945.338	618.467
NVA-455	3538079.499	325532.150	692.913
NVA-456	3543280.956	335447.262	611.772

NVA-457	3532339.902	316776.163	801.991
NVA-458	3536776.468	306959.131	756.885
NVA-459	3550629.266	309408.758	709.481
NVA-460	3554342.415	324939.247	665.723
NVA-461	3554491.402	337533.871	633.740
NVA-462	3549542.736	341152.187	640.853
NVA-463	3546306.851	350471.525	641.647
NVA-464	3544327.479	369862.408	684.245
NVA-465	3550469.745	374978.556	642.614
NVA-466	3545016.485	395617.237	608.892
NVA-467	3548352.822	412699.249	581.351
NVA-468	3545448.083	423747.929	581.481
NVA-469	3546876.081	435081.833	603.044
NVA-470	3546400.500	450313.682	590.095
NVA-471	3546315.436	460076.381	553.572
NVA-472	3545842.694	480252.419	503.383
NVA-473	3559724.691	423864.868	615.472

NVA-474	3557759.161	411440.664	629.881
NVA-475	3558324.770	398747.719	680.154
NVA-476	3560258.237	384593.581	724.834
NVA-477	3559636.825	375170.268	665.562
NVA-478	3555617.765	365355.499	700.083
NVA-479	3563107.492	354203.432	751.984
NVA-480	3564317.657	332921.797	629.408
NVA-481	3566299.309	321854.525	608.424
NVA-482	3561179.097	309963.863	649.786
NVA-483	3560915.081	300198.102	692.444
NVA-484	3574160.814	304701.758	678.329
NVA-485	3576731.339	318855.312	644.830
NVA-486	3577254.673	328626.563	638.517
NVA-487	3573251.485	340161.241	703.290
NVA-488	3576584.751	348519.828	717.320
NVA-489	3578559.415	358096.113	767.398
NVA-490	3567366.712	363010.896	782.588
NVA-491	3574471.603	373879.181	773.605
NVA-492	3569146.454	390808.024	757.849
NVA-493	3584181.490	345306.879	739.235
NVA-494	3593707.294	343396.946	723.629
NVA-495	3586714.484	338969.685	699.976

NVA-496	3592771.521	330463.666	666.812
NVA-497	3586890.974	322975.120	646.409
NVA-498	3589799.666	307661.751	658.046
NVA-499	3582024.774	310409.311	662.843
NVA-500	3600795.058	305349.722	685.984
NVA-501	3595267.581	314781.970	672.857
NVA-502	3605563.743	323010.885	678.825
NVA-503	3602725.158	333662.506	732.807
NVA-504	3612415.784	334763.162	745.689
NVA-505	3613598.465	324797.462	717.175

NVA-506	3610955.525	315507.736	697.094
NVA-507	3615162.203	304334.029	710.662
NVA-508	3627904.538	304195.072	750.620
NVA-509	3622955.786	312790.041	740.407
NVA-510	3628243.877	320358.962	747.439
NVA-511	3623128.920	328984.950	746.410
NVA-512	3628984.593	334283.889	692.867
NVA-513	3638057.350	372502.410	569.399
NVA-514	3641258.168	343946.363	658.278
NVA-515	3638148.878	327129.728	706.571
NVA-516	3640813.450	307855.454	767.959
NVA-517	3652637.004	314246.988	736.565
NVA-518	3651985.969	324762.194	721.815
NVA-519	3651755.333	344801.243	634.286
NVA-520	3652155.947	365097.280	565.897
NVA-521	3647415.014	384175.586	544.349
NVA-522	3657241.603	400828.179	491.595
NVA-523	3659142.830	387009.593	551.143
NVA-524	3662304.456	369175.653	582.617
NVA-525	3663033.409	350985.373	624.009
NVA-526	3667557.294	330456.882	693.327
NVA-527	3661590.212	306494.786	712.605
NVA-528	3672839.398	310574.113	716.979
NVA-529	3677255.100	321210.589	650.146
NVA-530	3677110.796	336737.971	588.326
NVA-531	3670000.119	345407.982	596.108
NVA-532	3671021.397	365338.320	549.970
NVA-533	3671775.314	383405.357	524.864
NVA-534	3674589.149	405139.664	502.104
NVA-535	3685859.473	393861.007	539.934
NVA-536	3684866.587	377285.798	542.858
NVA-537	3684316.538	366647.545	522.518



NVA-538	3686910.461	349802.651	626.179
NVA-539	3686425.078	335313.923	656.126
NVA-540	3689607.194	315157.146	699.114
NVA-541	3698658.264	305005.046	755.318
NVA-542	3697100.856	322064.622	690.411
NVA-543	3697747.081	342675.817	654.166
NVA-544	3691122.273	385334.777	528.463
NVA-545	3702137.793	333744.005	674.312
NVA-546	3704972.789	343970.736	683.538
NVA-547	3709845.983	337124.160	707.004
NVA-548	3708353.636	327099.580	698.421
NVA-549	3705212.601	313744.771	745.344
NVA-550	3704428.460	305152.649	734.765
NVA-551	3721399.413	308631.348	893.877
NVA-552	3714068.139	316910.221	744.122
NVA-553	3721753.712	329602.242	776.068
NVA-554	3713716.642	352420.878	676.048
NVA-555	3721018.289	343494.562	669.982
NVA-556	3719096.404	358252.258	601.613
NVA-557	3721631.527	369309.334	564.023
NVA-558	3719917.988	376886.372	530.098
NVA-559	3714676.894	389929.443	550.981
NVA-560	3725370.542	390822.081	547.179
NVA-561	3720379.507	426271.095	440.761
NVA-562	3726176.560	425794.545	424.456
NVA-563	3726654.527	425803.733	427.582
NVA-563A	3721312.632	438154.582	402.219
NVA-564	3724117.688	452789.101	434.320
NVA-565	3721417.501	480097.313	409.558
NVA-566	3716723.324	500204.260	354.130
NVA-567	3718590.981	489976.295	395.082
NVA-568	3728754.073	502766.653	375.308
NVA-569	3730486.098	487846.534	385.711

NVA-570	3728442.947	487351.401	410.208
NVA-570A	3729605.399	476486.928	373.118
NVA-571	3726930.404	468814.232	391.657

NVA-572	3731618.328	460979.595	377.224
NVA-573	3737594.436	456642.893	385.676
NVA-574	3734056.501	445883.794	434.943
NVA-575	3727931.280	438015.019	456.689
NVA-576	3733706.956	425815.770	465.825
NVA-577	3736457.142	413911.581	521.877
NVA-578	3737040.230	402941.303	507.572
NVA-579	3737035.160	387821.094	560.760
NVA-580	3730906.174	375276.148	560.932
NVA-581	3730487.403	364553.407	606.860
NVA-582	3736855.388	358556.695	656.733
NVA-583	3735452.967	347777.462	745.243
NVA-584	3731920.380	340417.137	748.024
NVA-585	3737759.122	328928.022	797.300
NVA-586	3728978.616	314028.757	904.613
NVA-587	3737692.690	305616.589	919.499
NVA-588	3741938.505	314187.879	919.584
NVA-589	3741895.960	337066.089	726.803
NVA-590	3741705.186	359644.922	628.900
NVA-591	3739413.699	394268.332	514.730
NVA-592	3740223.484	426511.979	450.408
NVA-593	3749346.358	478114.166	382.400
NVA-594	3743779.859	484953.834	383.143
NVA-595	3745405.052	505475.418	335.027
NVA-596	3751042.669	495496.721	355.481
NVA-597	3757310.149	480695.978	346.629
NVA-598	3754630.337	465286.889	395.027
NVA-599	3764209.537	458950.143	407.623
NVA-600	3765441.477	476831.649	374.293

NVA-601	3761522.888	499749.660	358.050
NVA-602	3775994.100	499490.247	366.020
NVA-603	3776501.403	485137.798	371.489
NVA-604	3778169.980	472941.312	377.912
NVA-605	3774282.681	464134.954	381.600
NVA-606	3786127.519	459476.471	409.365
NVA-607	3788180.230	474467.996	379.781
NVA-608	3781903.339	485603.369	358.457
NVA-609	3788947.827	493022.279	355.335
NVA-610	3797157.374	477204.120	364.013

NVA-611	3797426.415	462368.725	423.810
NVA-612	3807294.406	460511.931	405.507
NVA-613	3802917.022	470775.159	411.007
NVA-614	3808882.721	476605.509	388.502
NVA-615	3777155.191	507780.070	348.473
NVA-616	3779911.233	523117.747	342.142
NVA-617	3775986.704	535665.298	315.326
NVA-618	3775157.652	544321.590	322.571
NVA-619	3764887.691	553116.552	295.965
NVA-620	3765737.224	540937.027	319.309
NVA-621	3769387.394	529583.349	334.203
NVA-622	3768650.468	519158.218	358.277
NVA-623	3765443.057	507766.617	370.319
NVA-624	3752647.501	510443.167	337.577
NVA-625	3761025.427	516188.111	326.212
NVA-626	3749074.948	521886.003	306.513
NVA-627	3757906.061	529921.093	318.527
NVA-628	3748244.724	538873.993	312.649
NVA-629	3755922.258	547797.081	296.701
NVA-630	3771517.491	556333.295	311.933
NVA-631	3769607.125	574656.198	305.567
NVA-632	3778191.831	585795.289	295.422

NVA-633	3759365.737	588433.590	284.269
NVA-634	3758910.690	578836.696	293.946
NVA-635	3757840.717	563283.956	297.459
NVA-636	3753539.431	555572.454	302.291
NVA-637	3743709.940	560379.712	281.241
NVA-638	3746975.522	572671.014	279.234
NVA-639	3746400.877	590029.328	277.292
NVA-640	3735919.247	598676.983	262.941
NVA-641	3737894.413	585893.115	284.019
NVA-642	3732458.745	568683.259	291.900
NVA-643	3720812.456	563247.149	290.784
NVA-644	3719252.093	579703.188	306.110
NVA-645	3728290.227	590875.906	307.537
NVA-646	3709944.667	589068.184	335.871
NVA-647	3705088.736	574578.053	325.851
NVA-648	3706499.195	562775.434	323.243
NVA-649	3692210.399	608305.805	299.069

NVA-650	3674066.218	609143.973	279.037
NVA-651	3659658.168	603155.211	315.540
NVA-652	3749642.958	602491.776	262.988
NVA-653	3720248.112	603086.336	292.654
NVA-654	3725160.549	618628.808	327.237
NVA-655	3739087.705	617601.000	296.652
NVA-656	3751050.988	618008.564	267.597
NVA-657	3751156.525	630675.711	243.613
NVA-658	3741070.297	644680.722	259.839
NVA-659	3747799.107	647579.651	248.665
NVA-660	3749775.194	664347.451	260.759
NVA-661	3736308.312	660878.821	224.307
NVA-662	3739354.548	670289.791	254.771
NVA-663	3740279.175	685839.954	243.927
NVA-664	3736153.486	694248.006	223.367

NVA-665	3749541.021	691778.102	227.741
NVA-666	3762328.616	693145.113	209.010
NVA-667	3770316.196	687352.546	218.552
NVA-668	3779279.558	694600.143	299.051
NVA-669	3768985.076	703458.579	264.501
NVA-670	3764316.738	718077.187	212.026
NVA-671	3752858.941	702454.702	200.920
NVA-672	3747870.181	714832.934	231.042
NVA-673	3743824.199	728124.254	164.720
NVA-674	3737263.636	713089.020	214.204
NVA-675	3728868.205	713377.301	226.715
NVA-676	3727947.191	702916.967	219.840
NVA-677	3740239.685	702225.337	203.683
NVA-678	3734559.003	748091.532	153.900
NVA-679	3739362.378	765386.076	189.690
NVA-680	3750066.682	772033.018	142.770
NVA-681	3724435.004	769575.252	180.626
NVA-682	3723813.591	752534.686	183.071
NVA-683	3709696.289	747908.052	204.073
NVA-684	3718399.334	761929.825	173.747
NVA-685	3702748.760	763507.741	216.686
NVA-686	3709527.823	773998.907	191.330
NVA-687	3696728.045	772324.101	207.819
NVA-688	3688123.250	777645.954	181.417

TEXAS WEST & CENTRAL LIDAR 2018			
UTM Zone 15 North NAD83 (2011), Meters			
Check Points			
POINT ID	NORTHING (m)	EASTING (m)	ELEVS. (m)
NVA			
NVA-689	3742832.624	228941.695	150.753
NVA-690	3748210.673	250376.585	150.114

NVA-691	3752064.409	268979.574	125.432
NVA-692	3748840.604	279300.406	125.946
NVA-693	3738143.139	270994.652	131.715
NVA-694	3731244.469	263303.638	169.056
NVA-695	3735140.980	246416.841	166.324
NVA-696	3736006.603	234144.885	176.830
NVA-697	3727808.860	235184.942	176.636
NVA-698	3717941.380	221742.323	211.323
NVA-699	3706012.384	224849.922	162.996
NVA-700	3697070.069	226491.231	171.711
NVA-701	3696759.184	238036.368	155.831
NVA-702	3684562.245	249297.375	169.399
NVA-703	3681892.592	240794.683	142.506
NVA-704	3681246.658	228587.923	158.905
<b>TEXAS WEST &amp; CENTRAL LIDAR 2018</b>			
<b>UTM Zone 13 North NAD83 (2011), Meters</b>			
<b>Check Points (PAR)</b>			
<b>POINT ID</b>	<b>NORTHING (m)</b>	<b>EASTING (m)</b>	<b>ELEVS. (m)</b>
<b>VVA</b>			
VVA-1	3741411.540	689236.408	1194.832
VVA-2	3727893.957	693564.881	1176.616
VVA-3	3711652.879	689501.678	1184.605
VVA-4	3713037.074	680753.129	1206.552
VVA-5	3712751.080	663808.020	1236.041
VVA-6	3706973.576	643080.301	1292.296
VVA-7	3713470.086	630746.183	1338.174
VVA-8	3702946.055	625172.685	1319.667
VVA-9	3692573.751	613636.285	1356.204
VVA-10	3696133.216	635044.919	1279.661
VVA-11	3698027.317	652011.913	1238.065
VVA-12	3692052.553	663823.087	1211.971
VVA-13	3698900.747	683844.314	1182.818

VVA-14	3707498.060	698240.181	1161.501
VVA-15	3694703.073	698236.016	1146.504
VVA-16	3679872.267	689861.584	1140.764
VVA-17	3681179.442	666348.061	1193.274
VVA-18	3677760.154	653807.533	1223.694
VVA-19	3684802.018	643828.066	1259.551
VVA-20	3684609.463	627802.569	1306.600
VVA-21	3684519.556	620212.874	1340.285
VVA-22	3678837.286	615970.924	1337.690
VVA-23	3671151.109	639173.962	1263.908
VVA-24	3669759.651	655283.020	1213.970
VVA-25	3668342.293	666624.323	1181.444
VVA-26	3673325.537	686456.075	1156.209
VVA-27	3671744.888	696328.162	1124.698
VVA-28	3655732.651	692412.057	1114.402
VVA-29	3654088.798	680785.615	1137.927
VVA-30	3645179.555	668756.143	1149.012
VVA-31	3658592.217	657088.176	1199.161
VVA-32	3655056.401	644216.973	1233.811
VVA-33	3657985.125	619684.473	1316.080
VVA-34	3637574.674	629608.355	1264.064
VVA-35	3640542.563	647802.972	1207.274
VVA-36	3635167.704	668802.120	1134.033
VVA-37	3637218.434	685674.351	1113.170
VVA-38	3617958.776	695498.839	1058.750
VVA-39	3617731.388	681370.800	1089.749
VVA-40	3618173.847	664276.093	1118.773
VVA-41	3606087.292	681636.248	1079.518
VVA-42	3589627.699	684982.703	1062.060
VVA-43	3579282.588	687002.913	1011.853
VVA-44	3562951.060	689003.189	983.206
VVA-45	3556578.124	693521.437	963.070

VVA-46	3555811.579	687880.574	964.996
VVA-47	3734289.688	713508.879	1133.841
VVA-48	3734397.951	731928.628	1095.587
VVA-49	3734756.625	753615.480	1046.131
VVA-50	3736285.339	770658.518	1006.322
VVA-51	3724850.648	765240.422	1029.860
VVA-52	3724466.110	749485.332	1061.630

VVA-53	3722674.021	729546.017	1103.250
VVA-54	3723426.279	711238.003	1144.404
VVA-55	3711900.682	709904.797	1138.182
VVA-56	3713428.156	728278.989	1098.363
VVA-57	3712570.799	746211.684	1061.135
VVA-58	3716174.464	763349.337	1029.282
VVA-59	3700981.888	773221.534	1003.106
VVA-60	3701738.313	754322.873	1042.143
VVA-61	3701413.250	734978.476	1071.692
VVA-62	3702771.906	704195.780	1142.534
VVA-63	3693508.746	722259.853	1098.277
VVA-64	3690433.180	737577.233	1049.805
VVA-65	3693991.221	753535.242	1032.162
VVA-66	3693469.784	774885.906	995.739
VVA-67	3682928.886	761938.355	993.175
VVA-68	3680772.244	744322.405	1035.437
VVA-69	3679209.249	729908.572	1069.184
VVA-70	3680159.191	708087.192	1116.507
VVA-71	3668953.932	713171.330	1088.766
VVA-72	3669399.824	736515.767	1037.935
VVA-73	3668042.793	767214.815	968.722
VVA-74	3658822.108	760204.233	970.811
VVA-75	3660152.824	742256.557	1001.174
VVA-76	3659536.941	724608.171	1047.899
VVA-77	3658871.626	703826.527	1097.406



VVA-78	3649767.926	720631.501	1046.031
VVA-79	3650194.801	739283.786	1008.550
VVA-80	3650658.232	758626.278	961.438
VVA-81	3640364.405	763778.720	947.210
VVA-82	3640242.539	751393.610	965.051
VVA-83	3641501.601	735267.814	1000.924
VVA-84	3640924.317	712736.714	1047.755
VVA-85	3629554.238	710702.976	1038.349
VVA-86	3633515.351	741876.917	970.509
VVA-87	3630667.160	764955.299	943.271
VVA-88	3622306.571	770093.962	912.388
VVA-89	3621731.478	746963.764	947.692
VVA-90	3619775.229	705102.311	1038.046
VVA-91	3608670.856	706658.154	1021.328

VVA-92	3609593.670	729691.621	977.291
VVA-93	3611458.329	749269.607	940.446
VVA-94	3610432.954	777039.293	889.653
VVA-95	3591005.355	771856.214	886.369
VVA-96	3596227.338	755153.890	922.392
VVA-97	3591167.136	739224.289	941.402
VVA-98	3597856.646	718332.301	989.960
VVA-99	3587555.552	713460.347	998.455
VVA-100	3576154.734	708080.794	1004.557
VVA-101	3578436.997	730133.277	966.252
VVA-102	3579106.622	740336.294	939.413
VVA-103	3578074.854	759753.399	906.293
VVA-104	3578590.522	778728.177	859.937
VVA-105	3568779.823	769484.557	866.884
VVA-106	3566552.563	757045.170	891.661
VVA-107	3564853.224	749117.953	908.692
VVA-108	3568212.241	739865.227	943.531
VVA-109	3567576.342	724761.125	975.728

VVA-110	3562838.851	712327.781	997.958
VVA-111	3555915.277	714327.540	987.303
VVA-112	3539979.419	772605.107	857.868
VVA-113	3554489.892	725413.051	950.019
VVA-114	3553911.771	740331.264	930.522
VVA-115	3556753.976	753128.371	893.031
VVA-116	3554848.599	773994.271	866.416
VVA-117	3544973.637	771923.724	857.961
VVA-118	3546022.839	748633.277	901.439
VVA-119	3539771.112	741189.747	920.009
VVA-120	3541401.323	725096.807	966.534
VVA-121	3538048.24	709285.669	1019.321
VVA-122	3527632.738	715977.02	992.553
VVA-123	3529960.063	735029.879	919.543
VVA-124	3521714.166	756045.294	865.601
VVA-125	3532812.465	775634.422	835.59
VVA-126	3515100.22	775705.276	848.635
VVA-127	3514578.498	762320.072	882.237
VVA-128	3514015.25	750594.613	889.643
VVA-129	3515789.882	732867.729	940.105
VVA-130	3511690.267	724562.476	879.821

VVA-131	3505563.664	760036.221	882.085
VVA-132	3494378.912	768594.443	866.88
VVA-133	3479160.219	762351.732	807.414
VVA-134	3460421.804	773947.414	845.987
VVA-135	3445929.925	759266.893	731.564
VVA-136	3441131.234	768861.591	717.866

<b>TEXAS WEST &amp; CENTRAL LIDAR 2018</b>			
UTM Zone 14 North NAD83 (2011), Meters			
Check Points			
<b>POINT ID</b>	<b>NORTHING (m)</b>	<b>EASTING (m)</b>	<b>ELEVS. (m)</b>

<b>VVA</b>			
VVA-137	3741791.378	226165.488	1016.656
VVA-138	3741446.975	249931.888	985.982
VVA-139	3733049.712	262643.334	972.482
VVA-140	3745016.099	291769.494	938.093
VVA-141	3730906.125	284326.727	936.959
VVA-142	3722464.728	265576.879	952.015
VVA-143	3721958.280	248131.659	962.811
VVA-144	3718978.137	237409.299	963.337
VVA-145	3709575.874	226313.171	997.547
VVA-146	3715349.323	260152.993	943.668
VVA-147	3712499.412	277233.372	925.859
VVA-148	3714634.064	294280.835	910.021
VVA-149	3700773.209	282303.999	794.532
VVA-150	3700485.566	264004.702	901.670
VVA-151	3702649.320	246612.378	953.976
VVA-152	3701196.443	227557.185	992.454
VVA-153	3691188.160	235498.641	971.514
VVA-154	3693744.204	249870.093	946.582
VVA-155	3694676.741	262698.728	920.894
VVA-156	3692203.485	286037.733	742.230
VVA-157	3684068.855	295487.138	736.090
VVA-158	3680913.484	263303.045	899.631
VVA-159	3681111.754	246647.403	935.816
VVA-160	3679111.733	222176.573	979.005
VVA-161	3665342.502	231504.010	956.109
VVA-162	3668088.414	247863.095	924.731
VVA-163	3667412.261	269261.282	871.847
VVA-164	3665344.223	288561.455	735.805
VVA-165	3658603.743	291845.790	689.866
VVA-166	3659518.218	275664.472	760.150
VVA-167	3658455.204	255859.295	886.481

VVA-168	3658581.857	239960.822	927.067
VVA-169	3659247.917	221576.982	948.802
VVA-170	3645898.343	222452.198	925.287
VVA-171	3650347.912	253967.860	888.149
VVA-172	3646587.248	272068.942	819.020
VVA-173	3644551.117	290956.141	824.615
VVA-174	3634249.668	285748.484	780.651
VVA-175	3633075.689	270606.501	784.367
VVA-176	3641867.612	248475.424	904.592
VVA-177	3635573.885	227726.445	919.671
VVA-178	3622415.215	229831.619	890.809
VVA-179	3626274.838	252243.145	777.460
VVA-180	3622267.614	273289.925	756.280
VVA-181	3624701.426	285298.317	727.472
VVA-182	3609394.336	285040.020	700.582
VVA-183	3612414.228	269224.744	722.218
VVA-184	3613874.646	255488.358	784.977
VVA-185	3603906.649	234132.558	851.800
VVA-186	3596603.213	222907.321	834.175
VVA-187	3598779.153	240578.535	838.320
VVA-188	3597998.502	264384.790	828.044
VVA-189	3595664.195	276426.105	794.376
VVA-190	3589652.617	287253.727	721.554
VVA-191	3586384.000	272026.062	800.259
VVA-192	3587732.256	256684.608	796.605
VVA-193	3587728.550	243015.372	789.827
VVA-194	3589962.146	221192.888	865.406
VVA-195	3575442.196	223844.049	858.361
VVA-196	3576633.655	242824.218	762.511
VVA-197	3577858.875	270989.880	778.958
VVA-198	3576350.879	289309.142	703.815
VVA-199	3568408.164	291083.373	700.763
VVA-200	3563811.110	268208.425	845.338

VVA-201	3567671.739	244910.920	762.786
VVA-202	3562918.904	229233.968	838.151
VVA-203	3548809.586	232797.135	807.706

VVA-204	3548647.337	246141.253	795.393
VVA-205	3549497.013	265670.652	790.355
VVA-206	3547727.986	284759.156	795.238
VVA-207	3535223.325	290673.786	762.679
VVA-208	3534073.722	264669.205	809.920
VVA-209	3534063.433	254750.997	790.634
VVA-210	3535992.116	242624.549	782.428
VVA-211	3538179.904	224954.540	817.115
VVA-212	3521393.789	228871.574	814.572
VVA-213	3523134.995	250710.115	827.531
VVA-214	3524128.895	275884.237	770.293
VVA-215	3521711.464	290955.928	750.605
VVA-216	3505681.740	284306.231	810.718
VVA-217	3510558.382	274886.939	820.508
VVA-218	3507596.101	249503.561	820.274
VVA-219	3508984.988	227539.672	841.376
VVA-220	3493359.858	224398.702	838.946
VVA-221	3497096.921	242154.736	812.696
VVA-222	3493013.643	273903.598	808.777
VVA-223	3495294.975	286854.073	760.357
VVA-224	3480344.642	282453.587	727.901
VVA-225	3478854.633	267791.508	752.270
VVA-226	3484815.966	243304.948	799.793
VVA-227	3482764.601	225665.019	824.175
VVA-228	3468554.715	224613.976	823.233
VVA-229	3467705.847	238546.292	791.845
VVA-230	3464797.302	252734.973	809.300
VVA-231	3466103.194	273879.825	751.679
VVA-232	3464441.079	286590.751	757.988

VVA-233	3457339.526	292738.624	769.992
VVA-234	3454599.212	274320.995	830.242
VVA-235	3449684.095	255928.301	847.757
VVA-236	3451577.680	247111.025	861.393
VVA-237	3455541.613	225619.273	817.113
VVA-238	3447376.112	215205.214	757.301
VVA-239	3442590.674	250046.525	852.419
VVA-240	3445047.657	265549.034	812.124
VVA-241	3443027.710	286852.407	805.385
VVA-242	3446248.903	298119.883	771.372

VVA-243	3444555.866	311839.308	730.413
VVA-244	3449551.608	333049.239	671.296
VVA-245	3442663.706	349732.593	679.906
VVA-246	3442890.787	366194.911	681.105
VVA-247	3452071.107	385146.986	710.575
VVA-248	3441510.340	385743.946	696.564
VVA-249	3443978.704	414641.556	650.267
VVA-250	3450487.402	432901.296	617.271
VVA-251	3450388.050	408245.046	649.211
VVA-252	3453723.152	389206.872	644.562
VVA-253	3461858.822	377615.625	620.669
VVA-255	3457390.272	346756.650	657.984
VVA-256	3459046.757	329959.240	690.559
VVA-257	3454121.226	323603.046	685.957
VVA-258	3463695.540	305621.776	773.881
VVA-259	3472562.226	308518.104	683.256
VVA-260	3477289.674	322930.162	679.867
VVA-261	3468484.372	338167.166	623.890
VVA-262	3469801.395	348588.992	595.795
VVA-263	3465675.021	365091.554	603.555
VVA-264	3469647.155	394567.303	561.313
VVA-265	3468916.005	407391.105	562.470

VVA-266	3465344.913	423172.692	565.371
VVA-267	3482494.398	415220.452	530.664
VVA-268	3480773.029	404644.630	526.244
VVA-269	3480955.639	385099.885	542.868
VVA-270	3482595.735	371872.355	551.802
VVA-271	3485636.971	350961.556	609.011
VVA-272	3489210.730	339429.942	698.677
VVA-273	3479738.891	300675.177	709.318
VVA-274	3496580.378	303493.733	782.747
VVA-275	3506343.628	304570.096	738.687
VVA-276	3503098.359	325013.082	730.050
VVA-277	3498905.119	345143.491	632.409
VVA-278	3498320.218	364454.379	633.618
VVA-279	3497907.711	378593.505	580.392
VVA-280	3497374.954	411453.004	515.757
VVA-281	3496201.215	436405.442	499.932
VVA-282	3493714.311	447593.893	487.103

VVA-283	3494957.452	475415.756	429.352
VVA-284	3510176.618	476592.961	479.966
VVA-285	3507562.657	454583.593	507.658
VVA-286	3512567.662	442047.735	597.992
VVA-287	3508592.552	419035.974	503.562
VVA-288	3509765.918	393199.139	518.997
VVA-289	3514820.029	371554.433	595.121
VVA-290	3520038.747	345229.318	765.160
VVA-291	3514468.222	315750.571	708.804
VVA-292	3511591.597	301667.630	735.655
VVA-293	3526457.289	300193.852	738.986
VVA-294	3520621.851	324173.878	701.829
VVA-295	3529368.956	344461.679	622.659
VVA-296	3519995.731	362144.888	577.421
VVA-297	3522005.266	385743.230	529.311

VVA-298	3524392.673	406186.655	543.555
VVA-299	3525794.021	432670.030	597.703
VVA-300	3521807.344	448761.338	576.558
VVA-301	3519995.846	477382.112	476.045
VVA-302	3534782.874	478913.587	488.580
VVA-303	3531214.935	452408.824	587.360
VVA-304	3535609.078	436534.530	619.513
VVA-305	3538524.581	418263.991	547.989
VVA-306	3537289.928	387349.121	574.892
VVA-307	3534142.190	371997.197	587.948
VVA-308	3536702.280	353091.946	586.227
VVA-309	3538510.895	339348.267	628.480
VVA-310	3532182.121	320064.480	802.127
VVA-311	3539127.934	308810.741	760.604
VVA-312	3557655.942	300059.543	703.990
VVA-313	3541283.253	328489.146	657.977
VVA-314	3549519.417	342759.845	640.448
VVA-315	3550579.478	364193.333	699.559
VVA-316	3549815.211	388712.598	644.561
VVA-317	3541850.209	413938.433	583.216
VVA-318	3546947.755	432128.755	592.295
VVA-319	3539960.731	450242.393	594.723
VVA-320	3546004.225	469185.227	482.785
VVA-321	3565983.502	418013.995	629.559

VVA-322	3556281.636	404410.267	653.844
VVA-323	3563233.721	393118.388	696.263
VVA-324	3566424.654	375322.411	728.682
VVA-325	3561700.705	363892.540	747.278
VVA-326	3559146.687	345755.461	712.046
VVA-327	3557799.045	335539.749	620.053
VVA-328	3556441.016	312463.077	680.077
VVA-329	3565272.463	310233.382	635.143



VVA-330	3578826.476	310197.688	670.405
VVA-331	3570950.269	319971.775	628.272
VVA-332	3580672.643	336154.508	688.749
VVA-333	3575928.275	345331.360	708.760
VVA-334	3571159.803	367944.653	786.532
VVA-335	3585151.834	350098.445	744.137
VVA-336	3593055.215	340210.437	702.716
VVA-337	3590196.441	334252.970	694.055
VVA-338	3595953.124	321628.796	687.090
VVA-339	3589805.090	300587.969	661.554
VVA-340	3605007.055	299717.178	692.612
VVA-341	3605752.565	318073.601	675.479
VVA-342	3603731.092	330972.750	716.071
VVA-343	3613332.498	329627.124	721.623
VVA-344	3615489.371	317992.955	723.217
VVA-345	3618259.325	307713.323	708.913
VVA-346	3628599.981	306549.496	786.233
VVA-347	3627412.136	316280.669	730.141
VVA-348	3624575.410	335270.591	729.311
VVA-349	3634993.370	377308.666	605.808
VVA-350	3637812.050	350346.647	646.172
VVA-351	3637934.832	337095.240	659.881
VVA-352	3636645.773	324805.924	698.803
VVA-353	3638963.518	311185.061	765.878
VVA-354	3640941.613	303009.011	811.732
VVA-355	3648007.278	321426.520	757.253
VVA-356	3653855.627	326064.321	717.885
VVA-357	3649744.719	357061.726	650.939
VVA-358	3650750.616	373615.604	525.044
VVA-359	3661925.118	401755.484	501.824
VVA-360	3661997.634	380673.996	559.765

VVA-361	3661011.776	356786.651	606.403
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VVA-362	3659581.334	335019.017	659.880
VVA-363	3670685.744	318813.423	705.045
VVA-364	3673596.029	306073.879	727.113
VVA-365	3675712.888	348792.892	581.417
VVA-366	3675196.871	361378.878	588.938
VVA-367	3674811.874	388275.437	521.527
VVA-368	3677942.408	400373.349	492.546
VVA-369	3690737.250	377521.613	525.096
VVA-370	3686199.919	355674.093	543.930
VVA-371	3689715.527	335363.542	634.522
VVA-372	3693743.715	309926.249	692.436
VVA-373	3697137.273	318742.298	689.307
VVA-374	3693694.221	337031.761	667.445
VVA-375	3694697.250	351658.369	637.894
VVA-376	3706620.972	338752.005	691.923
VVA-377	3712732.243	317089.807	748.711
VVA-378	3722477.380	311415.245	896.636
VVA-379	3721609.944	336629.773	694.903
VVA-380	3720064.489	354387.656	616.073
VVA-381	3722679.695	376868.412	529.028
VVA-382	3720529.882	387422.739	531.362
VVA-383	3723241.034	425593.579	411.576
VVA-384	3718647.211	492787.173	398.693
VVA-385	3725307.511	487051.029	388.699
VVA-386	3727875.755	476463.759	368.317
VVA-387	3734091.772	444146.777	438.885
VVA-388	3736056.244	416066.238	491.088
VVA-389	3736743.377	408764.107	506.962
VVA-390	3732399.179	387743.195	534.112
VVA-391	3736325.818	365000.679	633.892
VVA-392	3730931.537	349309.596	746.405
VVA-393	3734529.844	312852.779	913.092
VVA-394	3741030.471	325801.263	821.446

VVA-395	3738980.325	354974.159	669.080
VVA-396	3738793.020	399589.438	481.971
VVA-397	3732638.658	431161.742	466.050
VVA-398	3735470.892	458222.563	394.157
VVA-399	3741504.090	485675.203	365.685

VVA-400	3743294.615	491242.531	371.417
VVA-401	3753460.700	501203.400	320.553
VVA-402	3756701.651	487471.849	367.587
VVA-403	3753521.244	468138.101	384.691
VVA-404	3763606.537	462501.455	393.852
VVA-405	3764069.915	486278.022	345.458
VVA-406	3765372.224	498831.836	355.284
VVA-407	3774143.242	491325.346	382.055
VVA-408	3774090.390	478015.429	379.104
VVA-408A	3771767.949	466703.113	391.129
VVA-409	3788597.553	469383.540	385.780
VVA-410	3783769.127	479091.554	380.983
VVA-411	3782010.561	503077.655	338.106
VVA-412	3789625.261	485765.999	361.167
VVA-413	3793990.851	463276.168	437.369
VVA-414	3799223.695	483004.617	367.484
VVA-415	3803537.545	467251.800	415.916
VVA-416	3813693.565	468588.160	390.558
VVA-417	3775463.579	512869.794	326.473
VVA-418	3781475.925	531698.015	321.183
VVA-419	3776706.672	549627.103	308.318
VVA-420	3762295.985	550203.674	315.188
VVA-421	3764341.246	529832.643	332.617
VVA-422	3765353.380	515065.244	336.323
VVA-423	3760775.735	508663.273	352.010
VVA-424	3751629.314	507508.972	314.961
VVA-425	3748104.013	527200.236	303.152

VVA-426	3745824.316	551248.105	293.672
VVA-427	3770738.495	563536.595	293.232
VVA-428	3770678.675	584267.231	275.562
VVA-429	3757279.262	592433.271	283.887
VVA-430	3755382.430	576155.308	276.891
VVA-431	3756089.967	562207.070	287.167
VVA-432	3737420.602	567172.377	284.149
VVA-433	3743083.551	582667.697	279.402
VVA-434	3737596.517	597025.194	278.800
VVA-435	3730767.642	583799.314	284.953
VVA-436	3726679.563	559341.303	299.025
VVA-437	3708824.113	559354.691	319.669

VVA-438	3713281.725	583290.848	308.160
VVA-439	3690910.673	606862.612	302.093
VVA-440	3667166.441	603094.189	259.669
VVA-441	3728411.995	612486.930	300.144
VVA-442	3747254.473	613549.409	263.176
VVA-443	3756860.150	624967.835	243.323
VVA-444	3746014.380	636742.170	278.335
VVA-445	3743127.635	655670.969	298.857
VVA-446	3753855.263	668431.001	234.124
VVA-447	3737101.473	681758.056	210.821
VVA-448	3731776.061	699261.774	211.270
VVA-449	3743768.309	687117.051	252.463
VVA-450	3749222.804	681296.971	200.266
VVA-451	3756171.157	690861.906	234.742
VVA-452	3767229.287	694392.638	202.731
VVA-453	3777841.253	690740.765	285.402
VVA-454	3766867.275	701890.846	244.103
VVA-455	3761109.225	711647.657	215.820
VVA-456	3741879.987	708853.505	220.737
VVA-457	3725056.312	707712.002	211.453

VVA-458	3741044.308	717389.935	229.410
VVA-459	3743818.985	731402.516	170.424
VVA-460	3735226.621	754649.791	165.280
VVA-461	3744728.879	768140.145	149.433
VVA-462	3729302.368	763830.881	180.170
VVA-463	3719416.111	748949.080	184.964
VVA-464	3705382.534	747427.104	222.214
VVA-465	3711546.176	768241.328	213.120
VVA-466	3696532.759	762528.673	204.641
VVA-467	3689709.078	775234.698	178.341
<b>TEXAS WEST &amp; CENTRAL LIDAR 2018</b>			
<b>UTM Zone 15 North NAD83 (2011), Meters</b>			
<b>Check Points</b>			
<b>POINT ID</b>	<b>NORTHING (m)</b>	<b>EASTING (m)</b>	<b>ELEVS. (m)</b>
<b>VVA</b>			
VVA-468	3747641.626	228997.955	145.425
VVA-469	3740751.518	243116.658	149.413
VVA-470	3751823.124	261338.189	128.939
VVA-471	3745993.665	275938.659	126.076
VVA-472	3734766.285	255992.970	153.359
VVA-473	3731857.855	238915.845	172.448
VVA-474	3729981.700	224040.541	155.974
VVA-475	3690170.002	225658.668	166.233
VVA-476	3700607.438	238143.779	164.394
VVA-477	3684748.444	236982.170	145.010
VVA-478	3676271.941	229595.896	150.165

#### 4. GPS OBSERVATIONS

POINT ID	OBSERV. DATE	JULIAN DATE	TIME OF DAY (AST)	RE-OBSERV. DATE	RE-OBSERV. TIME
<b>NVA</b>					

NVA-1	4/4/2018	94	18:55	4/5/2018	13:40
NVA-2	4/4/2018	94	18:10	4/4/2018	18:13
NVA-3	4/4/2018	94	17:30	4/4/2018	17:33
NVA-4	4/5/2018	95	12:32	4/5/2018	12:35
NVA-5	4/4/2018	94	16:14	4/4/2018	16:17
NVA-6	4/3/2018	93	19:10	4/4/2018	14:18
NVA-7	4/3/2018	93	15:35	4/4/2018	14:00
NVA-8	4/3/2018	93	16:01	4/3/2018	16:04
NVA-9	4/3/2018	93	16:51	4/3/2018	16:54
NVA-10	4/3/2018	93	17:32	N/A	N/A
NVA-11	4/3/2018	93	14:33	N/A	N/A
NVA-12	4/4/2018	94	15:50	N/A	N/A
NVA-13	4/5/2018	95	14:57	N/A	N/A
NVA-14	4/5/2018	95	10:39	N/A	N/A
NVA-15	4/5/2018	95	10:12	N/A	N/A
NVA-16	4/5/2018	95	9:45	N/A	N/A
NVA-17	4/3/2018	93	18:31	N/A	N/A
NVA-18	4/2/2018	92	15:20	N/A	N/A
NVA-19	4/2/2018	92	16:15	N/A	N/A
NVA-20	4/4/2018	94	11:27	N/A	N/A
NVA-21	4/4/2018	94	10:30	N/A	N/A
NVA-22	4/4/2018	94	10:08	N/A	N/A
NVA-23	4/2/2018	92	17:21	N/A	N/A
NVA-24	4/2/2018	92	15:56	N/A	N/A
NVA-25	4/1/2018	91	15:59	N/A	N/A

NVA-26	4/1/2018	91	16:57	4/1/2018	17:00
NVA-27	4/1/2018	91	17:17	4/1/2018	17:20
NVA-28	4/1/2018	91	18:09	4/5/2018	8:50
NVA-29	4/1/2018	91	12:33	4/5/2018	17:59
NVA-30	4/1/2018	91	13:31	4/1/2018	13:34
NVA-31	4/1/2018	91	13:50	4/1/2018	13:53
NVA-32	4/1/2018	91	15:38	4/2/2018	13:14
NVA-33	4/2/2018	92	13:39	4/2/2018	13:42

NVA-34	4/3/2018	93	13:20	4/3/2018	13:23
NVA-35	4/3/2018	93	12:55	4/3/2018	12:58
NVA-36	4/4/2018	94	9:52	4/4/2018	9:55
NVA-37	4/4/2018	94	9:24	4/4/2018	9:27
NVA-38	4/3/2018	93	11:54	N/A	N/A
NVA-39	4/2/2018	92	11:26	4/2/2018	11:29
NVA-40	4/1/2018	91	14:57	4/1/2018	15:00
NVA-41	4/1/2018	91	14:13	4/1/2018	14:16
NVA-42	4/1/2018	91	11:37	4/1/2018	11:40
NVA-43	4/1/2018	91	10:30	4/5/2018	6:18
NVA-44	4/1/2018	91	10:49	4/1/2018	19:04
NVA-45	4/2/2018	92	10:26	4/2/2018	10:29
NVA-46	4/2/2018	92	9:22	4/2/2018	9:25
NVA-47	4/3/2018	93	10:13	4/3/2018	10:16
NVA-48	4/4/2018	94	8:36	4/4/2018	8:39
NVA-49	4/4/2018	94	8:56	4/4/2018	8:59
NVA-50	4/3/2018	93	9:02	N/A	N/A
NVA-51	4/2/2018	92	8:56	N/A	N/A
NVA-52	3/31/2018	90	19:04	N/A	N/A
NVA-53	3/31/2018	90	18:15	N/A	N/A
NVA-54	3/31/2018	90	17:33	N/A	N/A
NVA-55	3/31/2018	90	16:50	N/A	N/A
NVA-56	4/2/2018	92	7:58	N/A	N/A
NVA-57	4/3/2018	93	8:05	N/A	N/A
NVA-58	4/3/2018	93	8:35	N/A	N/A
NVA-59	3/31/2018	90	9:47	N/A	N/A
NVA-60	3/31/2018	90	10:20	N/A	N/A
NVA-61	3/31/2018	90	8:48	N/A	N/A
NVA-62	3/31/2018	90	15:42	N/A	N/A
NVA-63	3/31/2018	90	11:19	N/A	N/A
NVA-64	3/31/2018	90	12:53	N/A	N/A

NVA-65	3/29/2018	88	19:29	N/A	N/A
NVA-66	3/29/2018	88	18:32	N/A	N/A
NVA-67	3/29/2018	88	16:58	N/A	N/A

NVA-68	3/29/2018	88	15:54	N/A	N/A
NVA-69	3/19/2018	78	14:28	N/A	N/A
NVA-70	3/19/2018	78	14:55	N/A	N/A
NVA-71	3/19/2018	78	16:16	N/A	N/A
NVA-72	3/18/2018	77	14:20	N/A	N/A
NVA-73	3/18/2018	77	13:55	N/A	N/A
NVA-74	3/18/2018	77	13:18	N/A	N/A
NVA-75	3/18/2018	77	15:10	N/A	N/A
NVA-76	3/18/2018	77	14:53	3/19/2018	17:04
NVA-77	3/19/2018	78	15:55	3/19/2018	15:58
NVA-78	3/19/2018	78	15:15	3/19/2018	15:18
NVA-79	3/19/2018	78	13:33	3/22/2018	12:17
NVA-80	3/19/2018	78	14:11	3/22/2018	13:20
NVA-81	2/21/2018	80	13:27	3/21/2018	13:30
NVA-82	3/19/2018	78	12:45	3/22/2018	11:50
NVA-83	3/19/2018	78	11:30	3/21/2018	11:13
NVA-84	3/18/2018	77	17:12	3/19/2018	11:02
NVA-85	3/18/2018	77	12:46	3/19/2018	10:41
NVA-86	3/20/2018	79	12:16	3/21/2018	20:01
NVA-87	3/19/2018	78	18:59	3/19/2018	19:02
NVA-88	3/19/2018	78	18:03	3/20/2018	19:55
NVA-89	3/21/2018	80	12:00	3/21/2018	12:03
NVA-90	3/21/2018	80	12:43	3/21/2018	12:46
NVA-91	3/21/2018	80	13:54	3/22/2018	13:48
NVA-92	3/21/2018	80	14:40	3/22/2018	14:08
NVA-93	3/20/2018	79	18:47	3/21/2018	12:17
NVA-94	3/19/2018	78	18:18	3/20/2018	19:22
NVA-95	3/20/2018	79	15:16	N/A	N/A
NVA-96	3/20/2018	79	13:32	N/A	N/A
NVA-97	3/20/2018	79	14:49	N/A	N/A
NVA-98	3/20/2018	79	17:54	N/A	N/A
NVA-99	3/21/2018	80	17:56	N/A	N/A
NVA-100	3/21/2018	80	15:12	N/A	N/A
NVA-101	3/21/2018	80	16:23	N/A	N/A
NVA-102	3/21/2018	80	16:48	N/A	N/A



NVA-103	3/20/2018	79	17:16	N/A	N/A
NVA-104	3/20/2018	79	16:47	N/A	N/A
NVA-105	3/20/2018	79	14:02	3/23/2018	12:53
NVA-106	3/23/2018	82	13:51	3/23/2018	13:54
NVA-107	3/23/2018	82	14:49	3/23/2018	14:52
NVA-108	3/23/2018	82	16:47	3/23/2018	16:50
NVA-109	3/22/2018	81	19:10	3/22/2018	19:13
NVA-110	3/22/2018	81	16:14	N/A	N/A
NVA-111	3/22/2018	81	16:50	N/A	N/A
NVA-112	3/22/2018	81	18:37	N/A	N/A
NVA-113	3/23/2018	82	17:33	N/A	N/A
NVA-114	3/23/2018	82	15:38	N/A	N/A
NVA-115	3/23/2018	82	14:05	N/A	N/A
NVA-116	3/23/2018	82	19:29	N/A	N/A
NVA-117	3/23/2018	82	18:43	N/A	N/A
NVA-118	3/23/2018	82	18:20	N/A	N/A
NVA-119	3/22/2018	81	17:58	N/A	N/A
NVA-120	3/22/2018	81	17:13	N/A	N/A
NVA-121	3/25/2018	84	15:45	N/A	N/A
NVA-122	3/24/2018	83	17:24	N/A	N/A
NVA-123	3/24/2018	83	18:02	N/A	N/A
NVA-124	3/24/2018	83	14:25	N/A	N/A
NVA-125	3/23/2018	82	19:47	N/A	N/A
NVA-126	3/25/2018	84	16:47	3/25/2018	16:50
NVA-127	3/25/2018	84	15:00	3/26/2018	13:35
NVA-128	3/24/2018	83	19:14	3/26/2018	12:22
NVA-129	3/24/2018	83	18:32	3/24/2018	18:35
NVA-130	3/24/2018	83	13:18	3/24/2018	13:21
NVA-131	3/24/2018	83	12:39	3/25/2018	11:50
NVA-132	3/25/2018	84	12:18	3/25/2018	12:21
NVA-133	3/24/2018	83	19:45	3/26/2018	11:49
NVA-134	3/25/2018	84	14:16	3/26/2018	14:10
NVA-135	3/25/2018	84	17:15	3/25/2018	17:18
NVA-136	3/25/2018	84	17:50	3/25/2018	17:53

NVA-137	3/25/2018	84	13:44	3/25/2018	18:09
NVA-138	3/25/2018	84	13:24	3/26/2018	11:23
NVA-139	3/25/2018	84	12:45	3/26/2018	10:51
NVA-140	3/24/2018	83	11:55	3/25/2018	11:11
NVA-141	3/25/2018	84	13:41	3/25/2018	13:44
NVA-142	3/25/2018	84	14:29	3/25/2018	15:12

NVA-143	3/25/2018	84	14:51	3/25/2018	14:54
NVA-144	3/26/2018	85	15:05	3/26/2018	15:08
NVA-145	3/26/2018	85	16:01	3/26/2018	16:04
NVA-146	3/26/2018	85	17:01	3/26/2018	17:04
NVA-147	3/26/2018	85	16:43	3/26/2018	16:46
NVA-148	3/26/2018	85	15:17	3/26/2018	15:20
NVA-149	3/25/2018	84	16:43	3/25/2018	16:46
NVA-150	3/25/2018	84	15:33	N/A	N/A
NVA-151	3/25/2018	84	17:31	N/A	N/A
NVA-152	3/25/2018	84	13:13	N/A	N/A
NVA-153	3/25/2018	84	12:37	N/A	N/A
NVA-154	3/25/2018	84	12:06	N/A	N/A
NVA-155	3/25/2018	84	10:59	N/A	N/A
NVA-156	3/25/2018	84	9:54	N/A	N/A
NVA-157	3/25/2018	84	17:49	N/A	N/A
NVA-158	3/26/2018	85	11:39	N/A	N/A
NVA-159	3/26/2018	85	16:39	N/A	N/A
NVA-160	3/26/2018	85	15:52	N/A	N/A
NVA-161	3/26/2018	85	14:21	N/A	N/A
NVA-162	3/26/2018	85	13:49	N/A	N/A
NVA-163	3/26/2018	85	13:10	N/A	N/A
NVA-164	3/26/2018	85	12:17	N/A	N/A
NVA-165	3/26/2018	85	10:56	N/A	N/A
NVA-166	3/25/2018	84	9:12	N/A	N/A
NVA-167	3/25/2018	84	8:40	N/A	N/A
NVA-168	3/22/2018	81	13:37	N/A	N/A
NVA-169	3/26/2018	85	9:59	N/A	N/A
NVA-170	3/26/2018	85	9:24	N/A	N/A

NVA-171	3/24/2018	83	17:43	N/A	N/A
NVA-172	3/24/2018	83	18:42	N/A	N/A
NVA-173	3/24/2018	83	19:27	N/A	N/A
NVA-174	3/23/2018	82	19:51	N/A	N/A
NVA-175	3/23/2018	82	14:34	N/A	N/A
NVA-176	3/24/2018	83	17:15	3/26/2018	9:03
NVA-177	3/26/2018	85	8:26	3/26/2018	8:29
NVA-178	3/23/2018	82	8:43	3/26/2018	7:47
NVA-179	3/22/2018	81	19:55	N/A	N/A
NVA-180	3/22/2018	81	15:31	N/A	N/A
NVA-181	3/22/2018	81	15:49	N/A	N/A

NVA-182	3/22/2018	81	19:33	N/A	N/A
NVA-183	3/23/2018	82	9:35	N/A	N/A
NVA-184	3/23/2018	82	10:07	N/A	N/A
NVA-185	3/24/2018	83	13:14	N/A	N/A
NVA-186	3/24/2018	83	14:12	N/A	N/A
NVA-187	3/24/2018	83	15:53	N/A	N/A
NVA-188	3/24/2018	83	11:59	N/A	N/A
NVA-189	3/24/2018	83	11:25	N/A	N/A
NVA-190	3/23/2018	82	11:18	N/A	N/A
NVA-191	3/22/2018	81	18:40	N/A	N/A
NVA-192	3/22/2018	81	17:10	N/A	N/A
NVA-193	3/24/2018	83	8:51	N/A	N/A
NVA-194	3/23/2018	82	14:03	N/A	N/A
NVA-195	3/23/2018	82	13:33	N/A	N/A
NVA-196	3/23/2018	82	12:52	N/A	N/A
NVA-197	3/23/2018	82	18:15	N/A	N/A
NVA-198	3/23/2018	82	15:15	N/A	N/A
NVA-199	3/23/2018	82	15:42	N/A	N/A
NVA-200	3/23/2018	82	17:21	N/A	N/A
NVA-201	3/23/2018	82	18:46	N/A	N/A
NVA-202	3/23/2018	82	19:08	N/A	N/A
NVA-203	3/23/2018	82	16:50	N/A	N/A
NVA-204	3/19/2018	78	17:21	N/A	N/A

NVA-205	3/19/2018	78	16:16	3/19/2018	16:19
NVA-206	3/19/2018	78	14:19	3/19/2018	14:22
NVA-207	3/19/2018	78	13:43	3/19/2018	13:46
NVA-208	3/19/2018	78	12:44	3/19/2018	12:47
NVA-209	3/19/2018	78	11:45	3/21/2018	11:57
NVA-210	3/19/2018	78	11:02	N/A	N/A
NVA-211	3/19/2018	78	15:24	N/A	N/A
NVA-212	3/19/2018	78	15:54	N/A	N/A
NVA-213	3/19/2018	78	18:23	N/A	N/A
NVA-214	3/19/2018	78	19:12	N/A	N/A
NVA-215	3/19/2018	78	8:28	N/A	N/A
NVA-216	3/19/2018	78	9:29	N/A	N/A
NVA-217	3/19/2018	78	10:28	N/A	N/A
NVA-218	3/21/2018	80	12:15	N/A	N/A
NVA-219	3/20/2018	79	18:36	N/A	N/A
NVA-220	3/21/2018	80	9:45	N/A	N/A

NVA-221	3/21/2018	80	9:06	N/A	N/A
NVA-222	3/20/2018	79	7:58	N/A	N/A
NVA-223	3/20/2018	79	8:23	N/A	N/A
NVA-224	3/20/2018	79	9:29	N/A	N/A
NVA-225	3/20/2018	79	10:19	3/20/2018	10:22
NVA-226	3/20/2018	79	11:39	3/20/2018	11:42
NVA-227	3/20/2018	79	17:19	3/20/2018	17:22
NVA-228	3/21/2018	80	13:12	3/21/2018	13:15
NVA-229	3/21/2018	80	14:28	3/21/2018	14:31
NVA-230	3/20/2018	79	16:47	3/20/2018	16:50
NVA-231	3/18/2018	77	18:35	3/20/2018	12:57
NVA-232	3/18/2018	77	19:14	3/20/2018	13:24
NVA-233	3/20/2018	79	13:42	3/20/2018	13:45
NVA-234	3/18/2018	77	15:54	3/20/2018	14:40
NVA-235	3/18/2018	77	17:02	3/18/2018	17:05
NVA-236	3/18/2018	77	17:38	3/20/2018	15:34
NVA-237	3/20/2018	79	16:27	3/21/2018	15:58
NVA-238	3/21/2018	80	15:31	3/21/2018	15:34

NVA-239	3/19/2018	78	18:22	3/19/2018	18:26
NVA-240	3/19/2018	78	18:00	3/20/2018	13:20
NVA-241	3/18/2018	77	17:57	3/19/2018	17:24
NVA-242	3/18/2018	77	17:17	3/19/2018	17:04
NVA-243	3/18/2018	77	16:32	3/18/2018	16:36
NVA-244	3/18/2018	77	16:07	3/19/2018	9:21
NVA-245	3/18/2018	77	13:36	3/19/2018	9:43
NVA-246	3/19/2018	78	10:31	3/19/2018	10:35
NVA-247	3/18/2018	77	15:00	3/18/2018	15:04
NVA-248	3/19/2018	78	16:15	3/19/2018	16:19
NVA-249	3/19/2018	78	15:38	3/19/2018	15:42
NVA-250	3/20/2018	79	14:07	N/A	N/A
NVA-251	3/19/2018	78	19:02	N/A	N/A
NVA-252	3/19/2018	78	19:35	N/A	N/A
NVA-253	3/20/2018	79	10:43	N/A	N/A
NVA-254	3/20/2018	79	11:24	N/A	N/A
NVA-255	3/20/2018	79	15:03	N/A	N/A
NVA-256	3/19/2018	78	14:36	N/A	N/A
NVA-257	3/19/2018	78	14:09	N/A	N/A
NVA-258	3/19/2018	78	11:28	N/A	N/A
NVA-259	3/19/2018	78	12:24	N/A	N/A

NVA-260	3/21/2018	80	14:01	N/A	N/A
NVA-261	3/21/2018	80	12:48	N/A	N/A
NVA-262	3/21/2018	80	12:27	N/A	N/A
NVA-263	3/20/2018	79	16:38	N/A	N/A
NVA-264	3/20/2018	79	15:51	N/A	N/A
NVA-265	3/20/2018	79	10:09	N/A	N/A
NVA-266	3/20/2018	79	9:16	N/A	N/A
NVA-267	3/21/2018	80	9:30	N/A	N/A
NVA-268	3/21/2018	80	10:10	N/A	N/A
NVA-269	3/21/2018	80	10:32	N/A	N/A
NVA-270	3/21/2018	80	11:03	N/A	N/A
NVA-271	3/21/2018	80	14:52	N/A	N/A
NVA-272	3/21/2018	80	14:29	N/A	N/A

NVA-273	3/22/2018	81	14:55	N/A	N/A
NVA-274	3/21/2018	80	17:55	N/A	N/A
NVA-275	3/22/2018	81	19:29	3/25/2018	13:09
NVA-276	3/22/2018	81	18:56	3/25/2018	12:44
NVA-277	3/22/2018	81	18:08	3/25/2018	12:02
NVA-278	3/22/2018	81	17:39	3/25/2018	11:39
NVA-279	3/22/2018	81	16:51	3/25/2018	11:04
NVA-280	3/22/2018	81	13:57	3/22/2018	14:01
NVA-281	3/25/2018	84	17:31	3/25/2018	17:35
NVA-282	3/22/2018	81	13:07	3/22/2018	13:11
NVA-283	3/22/2018	81	12:22	3/25/2018	10:32
NVA-284	3/22/2018	81	10:59	3/22/2018	11:03
NVA-285	3/22/2018	81	10:11	3/22/2018	19:51
NVA-286	3/22/2018	81	9:15	3/25/2018	14:03
NVA-287	3/21/2018	80	18:35	3/21/2018	18:39
NVA-288	3/24/2018	83	10:25	3/24/2018	10:29
NVA-289	3/21/2018	80	19:26	3/24/2018	9:46
NVA-290	3/23/2018	82	8:58	3/24/2018	9:26
NVA-291	3/25/2018	84	9:07	3/25/2018	15:00
NVA-292	3/22/2018	81	11:33	3/25/2018	9:37
NVA-293	3/25/2018	84	16:50	3/25/2018	16:54
NVA-294	3/25/2018	84	18:07	3/25/2018	18:11
NVA-295	3/27/2018	86	12:04	N/A	N/A
NVA-296	3/25/2018	84	16:19	N/A	N/A
NVA-297	3/25/2018	84	15:53	N/A	N/A
NVA-298	3/25/2018	84	15:24	N/A	N/A

NVA-299	3/23/2018	82	9:49	N/A	N/A
NVA-300	3/24/2018	83	11:13	N/A	N/A
NVA-301	3/24/2018	83	11:39	N/A	N/A
NVA-302	3/24/2018	83	13:22	N/A	N/A
NVA-303	3/24/2018	83	12:38	N/A	N/A
NVA-304	3/23/2018	82	10:40	N/A	N/A
NVA-305	2/27/2018	86	13:54	3/27/2018	13:57
NVA-306	3/27/2018	86	13:18	3/27/2018	13:21

NVA-307	3/27/2018	86	16:34	3/27/2018	16:37
NVA-308	3/27/2018	86	17:16	3/27/2018	17:19
NVA-309	3/27/2018	86	18:28	3/27/2018	18:31
NVA-310	3/27/2018	86	18:02	N/A	N/A
NVA-311	3/27/2018	86	15:41	N/A	N/A
NVA-312	3/27/2018	86	14:53	N/A	N/A
NVA-313	3/23/2018	82	11:24	N/A	N/A
NVA-314	3/23/2018	82	19:50	N/A	N/A
NVA-315	3/23/2018	82	19:03	N/A	N/A
NVA-316	3/23/2018	82	17:11	N/A	N/A
NVA-317	3/23/2018	82	17:48	N/A	N/A
NVA-318	3/23/2018	82	18:17	N/A	N/A
NVA-319	3/23/2018	82	12:14	N/A	N/A
NVA-320	3/23/2018	82	11:51	N/A	N/A
NVA-321	3/28/2018	87	18:45	N/A	N/A
NVA-322	3/28/2018	87	18:21	N/A	N/A
NVA-323	3/28/2018	87	17:25	N/A	N/A
NVA-324	3/28/2018	87	16:56	N/A	N/A
NVA-325	3/29/2018	88	12:21	3/29/2018	12:24
NVA-326	3/29/2018	88	12:03	3/29/2018	12:06
NVA-327	3/24/2018	83	16:31	3/24/2018	16:35
NVA-328	3/23/2018	82	13:20	3/23/2018	13:24
NVA-329	3/23/2018	82	15:08	3/23/2018	15:12
NVA-330	3/23/2018	82	16:20	3/23/2018	16:24
NVA-331	3/23/2018	82	16:01	3/23/2018	16:05
NVA-332	3/24/2018	83	18:43	3/24/2018	18:56
NVA-333	3/24/2018	83	16:54	3/24/2018	17:00
NVA-334	3/24/2018	83	19:30	3/24/2018	19:34
NVA-335	3/29/2018	88	11:02	3/29/2018	11:07
NVA-336	3/28/2018	87	15:59	3/28/2018	16:02
NVA-337	3/28/2018	87	16:36	3/28/2018	16:39

NVA-338	3/28/2018	87	15:16	3/28/2018	15:19
NVA-339	3/28/2018	87	10:25	3/28/2018	10:28
NVA-340	3/28/2018	87	8:57	3/28/2018	9:00

NVA-341	3/28/2018	87	9:25	3/28/2018	9:28
NVA-342	3/24/2018	83	17:37	3/24/2018	17:41
NVA-343	3/24/2018	83	18:05	3/24/2018	18:09
NVA-344	3/27/2018	86	12:55	3/27/2018	12:58
NVA-345	3/27/2018	86	13:26	3/27/2018	13:34
NVA-346	3/27/2018	86	15:25	3/27/2018	15:28
NVA-347	3/27/2018	86	11:19	3/27/2018	16:24
NVA-348	3/27/2018	86	16:52	3/27/2018	16:55
NVA-349	3/27/2018	86	18:31	3/27/2018	18:34
NVA-350	3/28/2018	87	11:46	N/A	N/A
NVA-351	3/28/2018	87	12:57	N/A	N/A
NVA-352	3/28/2018	87	13:34	N/A	N/A
NVA-353	3/28/2018	87	12:26	N/A	N/A
NVA-354	3/28/2018	87	11:21	N/A	N/A
NVA-355	3/28/2018	87	8:08	N/A	N/A
NVA-356	3/27/2018	86	10:13	N/A	N/A
NVA-357	3/27/2018	86	14:56	N/A	N/A
NVA-358	3/27/2018	86	14:17	N/A	N/A
NVA-359	4/27/2018	117	11:45	N/A	N/A
NVA-360	4/25/2018	115	17:18	N/A	N/A
NVA-361	4/25/2018	115	17:56	N/A	N/A
NVA-362	4/27/2018	117	12:33	N/A	N/A
NVA-363	4/26/2018	116	20:31	N/A	N/A
NVA-364	4/26/2018	116	19:27	N/A	N/A
NVA-365	4/27/2018	117	16:12	N/A	N/A
NVA-366	4/26/2018	116	18:28	N/A	N/A
NVA-368	4/28/2018	118	19:38	N/A	N/A
NVA-369	4/28/2018	118	13:13	N/A	N/A
NVA-370	4/28/2018	118	14:03	N/A	N/A
NVA-371	4/28/2018	118	15:30	N/A	N/A
NVA-372	4/28/2018	118	16:02	N/A	N/A
NVA-373	4/28/2018	118	18:44	N/A	N/A
NVA-374	4/28/2018	118	18:22	N/A	N/A
NVA-375	4/28/2018	118	14:56	4/28/2018	14:59
NVA-376	4/26/2018	116	16:05	4/27/2018	18:59



NVA-377	4/26/2018	116	17:07	4/27/2018	15:27
NVA-378	4/27/2018	117	15:02	4/27/2018	15:05
NVA-379	4/25/2018	115	20:06	4/27/2018	9:47
NVA-380	4/26/2018	116	13:54	4/26/2018	13:54
NVA-381	4/25/2018	115	18:24	4/25/2018	18:33
NVA-382	4/25/2018	115	15:31	4/25/2018	15:34
NVA-383	4/26/2018	116	13:31	4/26/2018	13:34
NVA-384	4/26/2018	116	14:28	4/26/2018	14:31
NVA-385	4/26/2018	116	15:20	4/27/2018	9:47
NVA-386	4/26/2018	116	16:17	4/28/2018	16:20
NVA-387	4/27/2018	117	20:20	4/27/2018	N/A
NVA-388	4/27/2018	117	20:48	4/27/2018	20:51
NVA-389	4/28/2018	118	13:35	4/28/2018	13:38
NVA-390	4/28/2018	118	13:13	4/28/2018	13:16
NVA-391	4/28/2018	118	11:46	4/28/2018	11:49
NVA-392	4/28/2018	118	16:41	4/29/2018	17:25
NVA-393	4/28/2018	118	17:21	4/29/2018	16:54
NVA-394	4/27/2018	117	20:42	4/30/2018	17:12
NVA-395	4/27/2018	117	16:51	N/A	N/A
NVA-396	4/28/2018	118	16:51	N/A	N/A
NVA-398	4/28/2018	118	19:30	N/A	N/A
NVA-399	4/28/2018	118	20:16	N/A	N/A
NVA-400	4/28/2018	118	10:55	N/A	N/A
NVA-401	4/28/2018	118	10:11	N/A	N/A
NVA-402	4/28/2018	118	9:24	N/A	N/A
NVA-403	4/26/2018	116	9:53	N/A	N/A
NVA-404	4/26/2018	116	11:17	N/A	N/A
NVA-405	4/26/2018	116	11:48	4/26/2018	12:01
NVA-406	4/26/2018	116	13:10	4/26/2018	13:13
NVA-407	4/25/2018	115	14:24	4/25/2018	14:27
NVA-408	4/25/2018	115	13:49	4/25/2018	13:52
NVA-409	4/23/2018	113	16:40	4/23/2018	16:43
NVA-410	4/23/2018	113	16:01	N/A	N/A
NVA-411	4/23/2018	113	14:51	N/A	N/A

NVA-412	4/23/2018	113	14:26	N/A	N/A
NVA-413	4/23/2018	113	13:19	N/A	N/A
NVA-414	4/24/2018	114	18:36	N/A	N/A
NVA-415	4/29/2018	119	14:46	N/A	N/A
NVA-416	4/29/2018	119	15:28	N/A	N/A

NVA-417	4/28/2018	118	18:49	N/A	N/A
NVA-418	4/28/2018	118	13:36	N/A	N/A
NVA-419	4/27/2018	117	16:08	N/A	N/A
NVA-420	4/27/2018	117	19:25	N/A	N/A
NVA-421	4/27/2018	117	18:59	N/A	N/A
NVA-422	4/27/2018	117	17:59	N/A	N/A
NVA-423	4/27/2018	117	12:53	N/A	N/A
NVA-424	4/27/2018	117	1:43	N/A	N/A
NVA-425	4/27/2018	117	10:32	4/30/2018	13:38
NVA-426	4/24/2018	114	11:13	4/24/2018	11:16
NVA-427	4/28/2018	118	14:06	4/28/2018	14:10
NVA-428	4/24/2018	114	16:54	4/24/2018	16:37
NVA-429	4/23/2018	113	12:58	4/24/2018	14:36
NVA-430	4/24/2018	114	12:36	4/24/2018	12:39
NVA-431	4/23/2018	113	17:38	4/23/2018	17:41
NVA-432	4/25/2018	115	12:53	4/25/2018	12:56
NVA-433	4/23/2018	113	18:24	4/25/2018	11:55
NVA-434	4/23/2018	113	19:28	4/23/2018	19:31
NVA-435	4/24/2018	114	11:58	4/24/2018	12:01
NVA-436	4/23/2018	113	12:23	4/24/2018	15:10
NVA-437	4/23/2018	113	17:28	4/23/2018	17:31
NVA-438	4/23/2018	113	18:29	4/23/2018	18:32
NVA-439	4/24/2018	114	11:53	4/24/2018	11:49
NVA-440	4/25/2018	115	11:50	4/25/2018	11:53
NVA-441	4/25/2018	115	13:44	4/25/2018	13:47
NVA-442	4/25/2018	115	14:35	4/25/2018	14:38
NVA-443	4/25/2018	115	19:47	4/25/2018	19:50
NVA-444	4/25/2018	115	17:25	4/25/2018	17:28
NVA-445	4/26/2018	116	10:56	4/26/2018	10:59

NVA-446	4/25/2018	115	15:37	4/25/2018	15:40
NVA-447	4/24/2018	114	18:07	4/24/2018	18:10
NVA-448	4/24/2018	114	16:59	4/24/2018	17:02
NVA-449	4/23/2018	113	19:56	4/23/2018	19:59
NVA-450	4/24/2018	114	12:26	N/A	N/A
NVA-451	4/23/2018	113	15:17	N/A	N/A
NVA-452	4/23/2018	113	16:24	N/A	N/A
NVA-453	4/23/2018	113	11:43	N/A	N/A
NVA-454	4/24/2018	114	11:15	N/A	N/A
NVA-455	4/23/2018	113	20:18	N/A	N/A

NVA-456	4/23/2018	113	21:28	N/A	N/A
NVA-457	4/23/2018	113	18:54	N/A	N/A
NVA-458	4/22/2018	112	16:30	N/A	N/A
NVA-459	4/22/2018	112	15:27	N/A	N/A
NVA-460	4/22/2018	112	14:50	N/A	N/A
NVA-461	4/22/2018	112	12:39	N/A	N/A
NVA-462	4/23/2018	113	10:55	N/A	N/A
NVA-463	4/22/2018	112	11:39	N/A	N/A
NVA-464	4/22/2018	112	13:50	N/A	N/A
NVA-465	4/22/2018	112	14:39	N/A	N/A
NVA-466	4/23/2018	113	14:28	N/A	N/A
NVA-467	4/23/2018	113	20:40	N/A	N/A
NVA-468	4/24/2018	114	18:43	N/A	N/A
NVA-469	4/24/2018	114	19:35	N/A	N/A
NVA-470	4/26/2018	116	13:35	N/A	N/A
NVA-471	4/26/2018	116	11:30	N/A	N/A
NVA-472	4/25/2018	115	18:38	N/A	N/A
NVA-473	4/24/2018	114	14:45	N/A	N/A
NVA-474	4/24/2018	114	13:34	N/A	N/A
NVA-475	4/23/2018	113	10:32	4/23/2018	10:36
NVA-476	4/23/2018	113	9:19	4/23/2018	9:22
NVA-477	4/22/2018	112	15:30	4/22/2018	15:33
NVA-478	4/22/2018	112	12:24	4/22/2018	12:27
NVA-479	4/20/2018	110	12:38	4/21/2018	20:24

NVA-480	4/22/2018	112	14:12	4/22/2018	14:15
NVA-481	4/21/2018	111	19:43	4/21/2018	19:47
NVA-482	4/21/2018	111	11:36	4/21/2018	11:39
NVA-483	4/21/2018	111	12:15	4/21/2018	12:18
NVA-484	4/20/2018	110	17:56	4/20/2018	17:59
NVA-485	4/20/2018	110	18:30	4/21/2018	10:13
NVA-486	4/20/2018	110	15:31	4/21/2018	15:43
NVA-487	4/20/2018	110	14:04	4/21/2018	19:26
NVA-488	4/20/2018	110	11:21	4/21/2018	19:01
NVA-489	4/20/2018	110	11:58	4/21/2018	19:58
NVA-490	4/22/2018	112	11:45	4/22/2018	11:48
NVA-491	4/22/2018	112	10:35	4/22/2018	10:38
NVA-492	4/23/2018	113	13:19	4/23/2018	13:22
NVA-493	4/20/2018	110	10:09	4/21/2018	18:26
NVA-494	4/20/2018	110	8:44	4/21/2018	18:09

NVA-495	4/20/2018	110	9:19	4/21/2018	16:56
NVA-496	4/19/2018	109	18:51	4/20/2018	19:44
NVA-497	4/19/2018	109	18:16	4/19/2018	18:19
NVA-498	4/19/2018	109	17:38	4/21/2018	9:17
NVA-499	4/20/2018	110	18:42	4/21/2018	9:31
NVA-500	4/19/2018	109	16:58	4/21/2018	8:53
NVA-501	4/30/2018	120	15:00	4/30/2018	15:03
NVA-502	4/21/2018	111	17:22	4/21/2018	17:25
NVA-503	4/21/2018	111	16:32	4/21/2018	16:35
NVA-504	4/21/2018	111	16:01	4/21/2018	16:04
NVA-505	4/21/2018	111	15:15	4/21/2018	15:18
NVA-506	4/20/2018	110	20:08	4/21/2018	14:34
NVA-507	4/20/2018	110	19:06	4/21/2018	14:11
NVA-508	4/30/2018	120	15:42	4/30/2018	15:45
NVA-509	4/20/2018	110	17:42	4/21/2018	13:39
NVA-510	4/20/2018	110	9:06	N/A	N/A
NVA-511	4/20/2018	110	8:22	N/A	N/A
NVA-512	4/19/2018	109	20:37	N/A	N/A
NVA-513	4/19/2018	109	16:06	N/A	N/A

NVA-514	4/19/2018	109	19:25	N/A	N/A
NVA-515	4/20/2018	110	15:39	N/A	N/A
NVA-516	4/20/2018	110	10:22	N/A	N/A
NVA-517	4/20/2018	110	11:35	N/A	N/A
NVA-518	4/20/2018	110	12:46	N/A	N/A
NVA-519	4/20/2018	110	13:38	N/A	N/A
NVA-520	4/19/2018	109	17:04	N/A	N/A
NVA-521	4/19/2018	109	14:31	N/A	N/A
NVA-522	5/1/2018	121	17:23	N/A	N/A
NVA-523	5/1/2018	121	16:07	N/A	N/A
NVA-524	5/1/2018	121	15:03	N/A	N/A
NVA-525	5/1/2018	121	12:34	5/3/2018	13:57
NVA-526	4/30/2018	120	18:24	5/1/2018	12:17
NVA-527	4/30/2018	120	16:36	4/30/2018	16:40
NVA-528	4/30/2018	120	19:00	5/1/2018	12:46
NVA-529	5/1/2018	121	14:29	5/1/2018	14:32
NVA-530	5/1/2018	121	13:48	5/1/2018	13:51
NVA-531	5/1/2018	121	12:58	5/3/2018	14:13
NVA-532	5/1/2018	121	14:22	5/3/2018	14:55
NVA-533	5/1/2018	121	19:22	5/3/2018	15:16

NVA-534	5/1/2018	121	17:58	5/3/2018	16:03
NVA-535	5/1/2018	121	20:02	5/3/2018	16:30
NVA-536	5/2/2018	122	14:06	5/2/2018	14:10
NVA-537	5/2/2018	122	13:00	N/A	N/A
NVA-538	5/3/2018	123	18:38	5/3/2018	18:41
NVA-539	5/1/2018	121	18:43	5/1/2018	18:48
NVA-540	5/1/2018	121	15:10	5/1/2018	15:14
NVA-541	5/1/2018	121	16:06	5/1/2018	16:09
NVA-542	5/1/2018	121	18:11	5/1/2018	18:14
NVA-543	5/2/2018	122	17:31	5/3/2018	19:21
NVA-544	5/2/2018	122	15:03	5/3/2018	16:45
NVA-545	5/2/2018	122	18:01	5/2/2018	18:04
NVA-546	5/2/2018	122	20:08	5/3/2018	19:35
NVA-547	5/2/2018	122	19:12	5/3/2018	19:58

NVA-548	5/2/2018	122	18:44	5/2/2018	18:45
NVA-549	5/1/2018	121	17:10	5/1/2018	17:14
NVA-550	5/1/2018	121	16:50	N/A	N/A
NVA-551	5/3/2018	123	18:59	N/A	N/A
NVA-552	5/3/2018	123	18:23	N/A	N/A
NVA-553	5/3/2018	123	17:37	N/A	N/A
NVA-554	5/2/2018	122	21:23	N/A	N/A
NVA-555	5/3/2018	123	17:07	N/A	N/A
NVA-556	5/3/2018	123	15:55	N/A	N/A
NVA-557	5/3/2018	123	15:33	N/A	N/A
NVA-558	5/3/2018	123	14:57	N/A	N/A
NVA-559	5/3/2018	123	13:22	N/A	N/A
NVA-560	5/3/2018	123	14:21	N/A	N/A
NVA-561	4/27/2018	117	19:15	N/A	N/A
NVA-562	4/27/2018	117	18:50	N/A	N/A
NVA-563	4/27/2018	117	18:04	N/A	N/A
NVA-563A	5/4/2018	124	18:51	N/A	N/A
NVA-564	4/23/2018	113	12:04	N/A	N/A
NVA-565	4/22/2018	112	15:35	N/A	N/A
NVA-566	4/22/2018	112	14:36	N/A	N/A
NVA-567	4/27/2018	117	15:10	N/A	N/A
NVA-568	4/27/2018	117	12:30	N/A	N/A
NVA-569	4/22/2018	112	12:11	N/A	N/A
NVA-570	4/22/2018	112	13:20	N/A	N/A
NVA-570A	4/27/2018	117	13:35	N/A	N/A

NVA-571	4/22/2018	112	16:28	N/A	N/A
NVA-572	4/23/2018	113	11:20	N/A	N/A
NVA-573	4/23/2018	113	16:16	N/A	N/A
NVA-574	4/27/2018	117	16:45	N/A	N/A
NVA-575	4/27/2018	117	17:28	4/27/2018	17:32
NVA-576	5/3/2018	123	11:58	5/4/2018	16:42
NVA-577	5/3/2018	123	13:37	5/3/2018	13:40
NVA-578	5/3/2018	123	14:21	5/3/2018	14:24
NVA-579	5/3/2018	123	15:21	5/3/2018	15:24

NVA-580	5/3/2018	123	16:37	5/3/2018	16:40
NVA-581	5/3/2018	123	17:43	5/3/2018	17:46
NVA-582	5/3/2018	123	18:56	5/3/2018	18:59
NVA-583	5/3/2018	123	19:30	5/3/2018	19:33
NVA-584	5/3/2018	123	20:10	5/3/2018	20:13
NVA-585	5/3/2018	123	20:52	5/3/2018	20:56
NVA-586	5/3/2018	123	19:20	5/3/2018	19:27
NVA-587	5/3/2018	123	20:03	5/3/2018	20:07
NVA-588	5/3/2018	123	20:25	5/3/2018	20:29
NVA-589	5/3/2018	123	20:31	5/3/2018	20:34
NVA-590	5/3/2018	123	18:41	5/3/2018	18:44
NVA-591	5/3/2018	123	15:00	5/3/2018	15:03
NVA-592	5/3/2018	123	12:24	5/4/2018	16:58
NVA-593	4/25/2018	115	18:55	5/4/2018	15:37
NVA-594	4/25/2018	115	19:17	5/4/2018	15:10
NVA-595	4/27/2018	117	11:55	4/27/2018	11:59
NVA-596	4/25/2018	115	17:51	5/4/2018	14:20
NVA-597	4/25/2018	115	16:49	4/26/2018	17:53
NVA-598	4/24/2018	114	18:43	4/24/2018	18:48
NVA-599	4/24/2018	114	17:52	4/25/2018	16:46
NVA-600	4/25/2018	115	15:56	4/26/2018	17:35
NVA-601	4/25/2018	115	14:05	4/26/2018	11:23
NVA-602	4/22/2018	112	12:12	4/22/2018	12:15
NVA-603	4/24/2018	114	12:24	4/26/2018	12:28
NVA-604	4/24/2018	114	13:51	4/24/2018	13:55
NVA-605	4/24/2018	114	16:40	4/26/2018	15:41
NVA-606	4/24/2018	114	16:02	4/26/2018	14:50
NVA-607	4/22/2018	112	16:50	4/22/2018	16:53
NVA-608	4/24/2018	114	12:48	4/26/2018	12:50
NVA-609	4/22/2018	112	12:59	4/22/2018	13:02

NVA-610	4/22/2018	112	16:31	N/A	N/A
NVA-611	4/24/2018	114	15:27	N/A	N/A
NVA-612	4/22/2018	112	15:22	N/A	N/A
NVA-613	4/22/2018	112	16:09	N/A	N/A

NVA-614	4/22/2018	112	14:30	N/A	N/A
NVA-615	4/19/2018	109	13:36	N/A	N/A
NVA-616	4/20/2018	110	15:40	N/A	N/A
NVA-617	4/19/2018	109	17:09	N/A	N/A
NVA-618	4/20/2018	110	14:05	N/A	N/A
NVA-619	4/19/2018	109	18:27	N/A	N/A
NVA-620	4/19/2018	109	17:50	N/A	N/A
NVA-621	4/19/2018	109	16:50	N/A	N/A
NVA-622	4/19/2018	109	14:20	N/A	N/A
NVA-623	4/19/2018	109	13:03	N/A	N/A
NVA-624	4/19/2018	109	12:05	N/A	N/A
NVA-625	4/19/2018	109	14:55	4/20/2018	17:45
NVA-626	4/19/2018	109	11:29	4/20/2018	19:00
NVA-627	4/19/2018	109	15:23	4/20/2018	17:27
NVA-628	4/19/2018	109	9:43	4/20/2018	19:41
NVA-629	4/19/2018	109	9:16	4/20/2018	10:20
NVA-630	4/21/2018	111	10:41	4/21/2018	10:44
NVA-631	4/21/2018	111	11:28	4/21/2018	11:31
NVA-632	4/21/2018	111	11:49	4/21/2018	11:52
NVA-633	4/21/2018	111	12:59	4/21/2018	13:03
NVA-634	4/21/2018	111	12:35	4/21/2018	12:39
NVA-635	4/19/2018	109	19:01	4/21/2018	11:17
NVA-636	4/19/2018	109	19:17	4/21/2018	10:53
NVA-637	4/19/2018	109	10:27	4/20/2018	6:41
NVA-638	4/19/2018	109	19:20	4/20/2018	10:21
NVA-639	4/21/2018	111	13:43	4/21/2018	13:48
NVA-640	4/20/2018	110	12:02	4/20/2018	12:06
NVA-641	4/19/2018	109	18:15	4/20/2018	11:10
NVA-642	4/19/2018	109	11:24	4/20/2018	5:51
NVA-643	4/19/2018	109	12:56	4/20/2018	17:01
NVA-644	4/19/2018	109	19:56	4/19/2018	16:05
NVA-645	4/19/2018	109	16:55	4/19/2018	17:02
NVA-646	4/18/2018	108	18:10	4/19/2018	15:22
NVA-647	4/18/2018	108	18:46	4/19/2018	14:48
NVA-648	4/19/2018	109	14:18	4/20/2018	16:01



NVA-649	4/18/2018	108	16:22	4/18/2018	16:25
NVA-650	4/18/2018	108	12:05	N/A	N/A
NVA-651	4/18/2018	108	13:26	N/A	N/A
NVA-652	4/21/2018	111	13:19	N/A	N/A
NVA-653	4/20/2018	110	12:49	N/A	N/A
NVA-654	4/20/2018	110	13:37	N/A	N/A
NVA-655	4/21/2018	111	14:26	N/A	N/A
NVA-656	4/21/2018	111	15:19	N/A	N/A
NVA-657	4/21/2018	111	16:17	N/A	N/A
NVA-658	4/21/2018	111	19:04	N/A	N/A
NVA-659	4/21/2018	111	14:25	N/A	N/A
NVA-660	4/21/2018	111	19:46	N/A	N/A
NVA-661	4/21/2018	111	19:16	N/A	N/A
NVA-662	4/18/2018	108	16:46	N/A	N/A
NVA-663	4/18/2018	108	15:20	N/A	N/A
NVA-664	4/18/2018	108	13:23	N/A	N/A
NVA-665	4/18/2018	108	14:03	N/A	N/A
NVA-666	4/21/2018	111	16:16	N/A	N/A
NVA-667	4/21/2018	111	16:57	N/A	N/A
NVA-668	4/21/2018	111	17:41	N/A	N/A
NVA-669	4/17/2018	107	12:38	N/A	N/A
NVA-670	4/17/2018	107	10:44	N/A	N/A
NVA-671	4/17/2018	107	14:29	N/A	N/A
NVA-672	4/17/2018	107	9:18	N/A	N/A
NVA-673	4/16/2018	106	15:43	N/A	N/A
NVA-674	4/17/2018	107	8:34	N/A	N/A
NVA-675	4/16/2018	106	17:20	4/17/2018	16:23
NVA-676	4/16/2018	106	18:26	4/17/2018	15:49
NVA-677	4/16/2018	106	18:57	4/17/2018	15:23
NVA-678	4/16/2018	106	13:33	4/18/2018	9:53
NVA-679	4/16/2018	106	15:35	4/16/2018	15:38
NVA-680	4/16/2018	106	19:41	4/16/2018	19:44
NVA-681	4/17/2018	107	13:37	4/18/2018	11:34
NVA-682	4/17/2018	107	10:58	4/18/2018	10:36

NVA-683	4/17/2018	107	19:59	4/17/2018	20:11
NVA-684	4/17/2018	107	12:52	4/18/2018	23:06
NVA-685	4/17/2018	107	16:15	4/18/2018	12:52
NVA-686	4/17/2018	107	15:24	4/18/2018	12:23
NVA-687	4/17/2018	107	16:50	4/17/2018	16:57

NVA-688	4/17/2018	107	18:09	4/17/2018	18:12
NVA-689	4/16/2018	106	16:56	4/17/2018	15:49
NVA-690	4/16/2018	106	17:57	4/17/2018	16:27
NVA-691	4/17/2018	107	11:07	4/17/2018	11:10
NVA-692	4/17/2018	107	12:10	4/17/2018	12:13
NVA-693	4/16/2018	106	11:51	4/17/2018	13:35
NVA-694	4/16/2018	106	12:23	4/17/2018	10:34
NVA-695	4/16/2018	106	14:02	N/A	N/A
NVA-696	4/16/2018	106	15:01	N/A	N/A
NVA-697	4/16/2018	106	15:50	N/A	N/A
NVA-698	4/16/2018	106	14:34	N/A	N/A
NVA-699	4/16/2018	106	16:20	N/A	N/A
NVA-700	4/16/2018	106	17:12	N/A	N/A
NVA-701	4/17/2018	107	9:35	N/A	N/A
NVA-702	4/17/2018	107	11:50	N/A	N/A
NVA-703	4/17/2018	107	12:40	N/A	N/A
NVA-704	4/16/2018	106	18:47	N/A	N/A

<b>VVA</b>					
VVA-1	4/4/2018	94	18:36	4/4/2018	18:39
VVA-2	4/4/2018	94	17:52	4/5/2018	14:14
VVA-3	4/5/2018	95	12:54	4/5/2018	12:57
VVA-4	4/4/2018	94	17:00	4/4/2018	17:03

VVA-5	4/4/2018	94	16:33	4/4/2018	16:36
VVA-6	4/3/2018	93	15:15	4/3/2018	15:18
VVA-7	4/3/2018	93	16:30	4/3/2018	16:33
VVA-8	4/3/2018	93	17:18	4/4/2018	13:27
VVA-9	4/4/2018	94	10:55	4/4/2018	10:58
VVA-10	4/3/2018	93	14:15	N/A	N/A
VVA-11	4/3/2018	93	18:49	N/A	N/A
VVA-12	4/4/2018	94	15:33	N/A	N/A
VVA-13	4/5/2018	95	15:19	N/A	N/A
VVA-14	4/5/2018	95	11:22	N/A	N/A
VVA-15	4/5/2018	95	11:58	N/A	N/A
VVA-16	4/1/2018	91	17:54	N/A	N/A
VVA-17	4/1/2018	91	16:21	N/A	N/A
VVA-18	4/2/2018	92	12:57	N/A	N/A
VVA-19	4/2/2018	92	14:50	N/A	N/A
VVA-20	4/2/2018	92	16:48	N/A	N/A
VVA-21	4/4/2018	94	12:13	N/A	N/A

VVA-22	4/4/2018	94	12:36	N/A	N/A
VVA-23	4/2/2018	92	12:23	N/A	N/A
VVA-24	4/1/2018	91	15:18	N/A	N/A
VVA-25	4/1/2018	91	14:34	N/A	N/A
VVA-26	4/1/2018	91	13:12	N/A	N/A
VVA-27	4/1/2018	91	12:50	N/A	N/A
VVA-28	4/1/2018	91	11:56	N/A	N/A
VVA-29	4/1/2018	91	11:04	N/A	N/A
VVA-30	4/2/2018	92	9:49	N/A	N/A
VVA-31	4/2/2018	92	10:49	N/A	N/A
VVA-32	4/2/2018	92	11:43	N/A	N/A

VVA-33	4/3/2018	93	11:03	N/A	N/A
VVA-34	4/4/2018	94	8:07	N/A	N/A
VVA-35	4/3/2018	93	9:42	4/3/2018	9:45
VVA-36	4/2/2018	92	8:33	4/2/2018	8:36
VVA-37	3/31/2018	90	18:37	3/31/2018	18:40
VVA-38	3/31/2018	90	16:27	4/1/2018	9:30
VVA-39	3/31/2018	90	9:12	4/1/2018	8:51
VVA-40	3/31/2018	90	8:25	4/2/2018	7:16
VVA-41	3/31/2018	90	10:48	3/31/2018	10:51
VVA-42	3/31/2018	90	12:37	3/31/2018	12:40
VVA-43	3/29/2018	88	19:50	3/29/2018	19:53
VVA-44	3/29/2018	88	17:30	3/29/2018	17:33
VVA-45	3/29/2018	88	14:10	3/31/2018	14:10
VVA-46	3/29/2018	88	16:15	3/31/2018	14:23
VVA-47	3/19/2018	78	13:50	3/22/2018	12:32
VVA-48	3/19/2018	78	15:33	3/19/2018	15:36
VVA-49	3/18/2018	77	14:36	3/19/2018	16:51
VVA-50	3/18/2018	77	13:40	3/20/2018	11:16
VVA-51	3/18/2018	77	15:33	3/18/2018	15:36
VVA-52	3/18/2018	77	16:24	3/19/2018	17:23
VVA-53	3/19/2018	78	11:54	3/22/2018	11:20
VVA-54	3/19/2018	78	13:13	3/19/2018	13:16
VVA-55	3/21/2018	80	13:07	3/21/2018	13:10
VVA-56	3/21/2018	80	11:38	3/21/2018	11:41
VVA-57	3/19/2018	78	17:47	3/20/2018	20:09
VVA-58	3/19/2018	78	19:15	3/19/2018	19:18
VVA-59	3/20/2018	79	12:41	3/23/2018	11:41
VVA-60	3/19/2018	78	18:35	3/20/2018	19:35

VVA-61	3/20/2018	79	19:04	3/20/2018	19:07
VVA-62	3/21/2018	80	14:19	3/21/2018	14:22
VVA-63	3/21/2018	80	18:12	3/21/2018	18:15
VVA-64	3/20/2018	79	18:14	3/21/2018	18:44
VVA-65	3/20/2018	79	15:44	3/20/2018	15:47
VVA-66	3/20/2018	79	13:13	3/23/2018	12:04

VVA-67	3/20/2018	79	14:26	3/20/2018	14:29
VVA-68	3/20/2018	79	17:35	3/20/2018	17:38
VVA-69	3/21/2018	80	17:17	3/21/2018	17:20
VVA-70	3/21/2018	80	15:36	3/22/2018	15:02
VVA-71	3/22/2018	81	15:54	3/22/2018	15:57
VVA-72	3/23/2018	82	17:06	3/23/2018	17:09
VVA-73	3/23/2018	82	14:26	3/23/2018	14:29
VVA-74	3/23/2018	82	15:05	3/23/2018	15:08
VVA-75	3/23/2018	82	16:20	3/23/2018	16:23
VVA-76	3/22/2018	81	18:53	3/22/2018	18:56
VVA-77	3/22/2018	81	16:35	3/22/2018	16:38
VVA-78	3/22/2018	81	18:19	3/22/2018	18:22
VVA-79	3/23/2018	82	17:58	3/24/2018	15:50
VVA-80	3/23/2018	82	19:03	3/23/2018	19:06
VVA-81	3/24/2018	83	14:47	3/24/2018	14:50
VVA-82	3/24/2018	83	15:18	3/24/2018	15:21
VVA-83	3/24/2018	83	17:02	3/24/2018	17:05
VVA-84	3/25/2018	84	16:03	3/25/2018	16:06
VVA-85	3/25/2018	84	15:27	3/25/2018	15:30
VVA-86	3/24/2018	83	17:44	3/24/2018	17:47
VVA-87	3/24/2018	83	13:43	3/24/2018	13:46
VVA-88	3/24/2018	83	12:59	3/24/2018	13:02
VVA-89	3/24/2018	83	19:00	3/26/2018	12:08
VVA-90	3/25/2018	84	17:00	N/A	N/A
VVA-91	3/25/2018	84	17:33	N/A	N/A
VVA-92	3/25/2018	84	13:57	N/A	N/A
VVA-93	3/24/2018	83	20:05	N/A	N/A
VVA-94	3/24/2018	83	12:19	N/A	N/A
VVA-95	3/25/2018	84	12:56	N/A	N/A
VVA-96	3/25/2018	84	14:11	N/A	N/A
VVA-97	3/25/2018	84	15:52	N/A	N/A
VVA-98	3/26/2018	85	15:30	N/A	N/A
VVA-99	3/26/2018	85	16:23	N/A	N/A

VVA-100	3/26/2018	85	14:38	3/26/2018	14:41
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VVA-101	3/25/2018	84	16:23	3/26/2018	15:34
VVA-102	3/25/2018	84	17:15	3/25/2018	17:18
VVA-103	3/25/2018	84	10:37	3/25/2018	10:40
VVA-104	3/25/2018	84	11:37	3/25/2018	11:40
VVA-105	3/25/2018	84	11:14	3/25/2018	11:17
VVA-106	3/25/2018	84	9:36	3/25/2018	9:36
VVA-107	3/25/2018	84	18:06	3/26/2018	10:33
VVA-108	3/26/2018	85	11:19	3/26/2018	11:22
VVA-109	3/26/2018	85	12:03	3/26/2018	16:07
VVA-110	3/26/2018	85	13:34	3/26/2018	13:37
VVA-111	3/24/2018	83	19:06	N/A	N/A
VVA-112	3/22/2018	81	14:43	N/A	N/A
VVA-113	3/24/2018	83	18:28	N/A	N/A
VVA-114	3/24/2018	83	17:58	N/A	N/A
VVA-115	3/26/2018	85	10:19	N/A	N/A
VVA-116	3/22/2018	81	13:04	N/A	N/A
VVA-117	3/22/2018	81	14:18	N/A	N/A
VVA-118	3/26/2018	85	9:38	N/A	N/A
VVA-119	3/26/2018	85	8:41	N/A	N/A
VVA-120	3/24/2018	83	17:01	N/A	N/A
VVA-121	3/24/2018	83	16:30	N/A	N/A
VVA-122	3/24/2018	83	15:07	N/A	N/A
VVA-123	3/23/2018	82	13:43	N/A	N/A
VVA-124	3/23/2018	82	9:51	N/A	N/A
VVA-125	3/22/2018	81	15:12	N/A	N/A
VVA-126	3/22/2018	81	16:42	N/A	N/A
VVA-127	3/22/2018	81	19:06	N/A	N/A
VVA-128	3/23/2018	82	10:38	N/A	N/A
VVA-129	3/24/2018	83	12:38	N/A	N/A
VVA-130	3/24/2018	83	11:44	N/A	N/A
VVA-131	3/22/2018	81	18:24	N/A	N/A
VVA-132	3/22/2018	81	17:55	N/A	N/A
VVA-133	3/23/2018	82	13:15	N/A	N/A
VVA-134	3/23/2018	82	17:53	N/A	N/A
VVA-135	3/23/2018	82	16:19	N/A	N/A

VVA-136	3/23/2018	82	17:04	N/A	N/A
VVA-137	3/19/2018	78	17:54	N/A	N/A
VVA-138	3/19/2018	78	16:58	N/A	N/A

VVA-139	3/19/2018	78	14:53	N/A	N/A
VVA-140	3/19/2018	78	13:16	N/A	N/A
VVA-141	3/19/2018	78	11:23	3/21/2018	11:37
VVA-142	3/19/2018	78	10:10	3/21/2018	10:47
VVA-143	3/19/2018	78	9:11	3/19/2018	9:14
VVA-144	3/19/2018	78	18:43	3/19/2018	18:46
VVA-145	3/20/2018	79	8:39	3/21/2018	8:00
VVA-146	3/21/2018	80	10:08	3/21/2008	10:11
VVA-147	3/20/2018	79	18:54	3/20/2018	18:57
VVA-148	3/21/2018	80	12:36	3/21/2018	12:39
VVA-149	3/20/2018	79	17:49	3/20/2018	17:52
VVA-150	3/20/2018	79	12:03	3/20/2018	12:06
VVA-151	3/20/2018	79	11:00	3/20/2018	11:03
VVA-152	3/20/2018	79	9:06	3/20/2018	9:09
VVA-153	3/20/2018	79	9:56	3/20/2018	9:59
VVA-154	3/20/2018	79	11:21	3/20/2018	11:24
VVA-155	3/20/2018	79	12:24	3/21/2018	18:14
VVA-156	3/21/2018	80	13:42	3/21/2018	13:45
VVA-157	3/21/2018	80	15:11	3/21/2018	15:14
VVA-158	3/18/2018	77	17:58	3/18/2018	18:01
VVA-159	3/18/2018	77	16:30	3/18/2018	16:33
VVA-160	3/20/2018	79	13:58	3/20/2018	14:01
VVA-161	3/18/2018	77	13:05	N/A	N/A
VVA-162	3/18/2018	77	16:52	N/A	N/A
VVA-163	3/18/2018	77	17:42	N/A	N/A
VVA-164	3/19/2018	78	18:41	N/A	N/A
VVA-165	3/19/2018	78	19:16	N/A	N/A
VVA-166	3/18/2018	77	18:25	N/A	N/A
VVA-167	3/19/2018	78	16:37	N/A	N/A
VVA-168	3/18/2018	77	15:37	N/A	N/A
VVA-169	3/18/2018	77	13:57	N/A	N/A

VVA-170	3/19/2018	78	10:58	N/A	N/A
VVA-171	3/19/2018	78	15:56	N/A	N/A
VVA-172	3/20/2018	79	14:26	N/A	N/A
VVA-173	3/20/2018	79	11:59	N/A	N/A
VVA-174	3/20/2018	79	11:09	N/A	N/A
VVA-175	3/20/2018	79	14:48	N/A	N/A
VVA-176	3/19/2018	78	15:20	N/A	N/A
VVA-177	3/19/2018	78	11:53	N/A	N/A

VVA-178	3/19/2018	78	13:02	N/A	N/A
VVA-179	3/19/2018	78	13:47	N/A	N/A
VVA-180	3/20/2018	79	15:23	3/21/2018	16:28
VVA-181	3/20/2018	79	9:44	3/20/2018	17:53
VVA-182	3/21/2018	80	9:53	3/21/2018	17:27
VVA-183	3/21/2018	80	11:25	3/21/2018	15:55
VVA-184	3/21/2018	80	15:14	3/21/2018	15:18
VVA-185	3/22/2018	81	16:24	3/22/2018	16:28
VVA-186	3/22/2018	81	14:17	3/22/2018	14:21
VVA-187	3/22/2018	81	17:14	3/25/2018	11:22
VVA-188	3/22/2018	81	18:30	3/25/2018	12:22
VVA-189	3/22/2018	81	19:16	3/25/2018	12:58
VVA-190	3/21/2018	80	18:13	6/25/2018	13:34
VVA-191	3/22/2018	81	9:39	3/22/2018	9:43
VVA-192	3/22/2018	81	10:41	3/22/2018	10:45
VVA-193	3/22/2018	81	12:41	3/25/2018	10:46
VVA-194	3/22/2018	81	13:37	3/22/2018	13:40
VVA-195	3/25/2018	84	17:46	3/25/2018	17:50
VVA-196	3/22/2018	81	11:54	3/25/2018	10:15
VVA-197	3/22/2018	81	8:55	3/25/2018	14:17
VVA-198	3/21/2018	80	19:05	3/24/2018	10:05
VVA-199	3/24/2018	83	10:45	3/24/2018	10:49
VVA-200	3/23/2018	82	9:23	N/A	N/A
VVA-201	3/25/2018	84	9:57	N/A	N/A
VVA-202	3/27/2018	86	12:39	N/A	N/A
VVA-203	3/27/2018	86	16:54	N/A	N/A



VVA-204	3/27/2018	86	13:33	N/A	N/A
VVA-205	3/23/2018	82	10:24	N/A	N/A
VVA-206	3/24/2018	83	12:59	N/A	N/A
VVA-207	3/24/2018	83	13:39	N/A	N/A
VVA-208	3/23/2018	82	11:02	N/A	N/A
VVA-209	3/27/2018	86	14:18	N/A	N/A
VVA-210	3/27/2018	86	16:08	N/A	N/A
VVA-211	3/27/2018	86	17:37	N/A	N/A
VVA-212	3/28/2018	87	17:51	N/A	N/A
VVA-213	3/27/2018	86	15:19	N/A	N/A
VVA-214	3/23/2018	82	19:28	N/A	N/A
VVA-215	3/23/2018	82	17:27	N/A	N/A
VVA-216	3/23/2018	82	15:27	N/A	N/A

VVA-217	3/23/2018	82	12:49	N/A	N/A
VVA-218	3/28/2018	87	19:05	N/A	N/A
VVA-219	3/29/2018	88	12:39	N/A	N/A
VVA-220	3/28/2018	87	16:23	N/A	N/A
VVA-221	3/29/2018	88	11:41	N/A	N/A
VVA-222	3/23/2018	82	13:54	N/A	N/A
VVA-223	3/23/2018	82	14:19	N/A	N/A
VVA-224	3/24/2018	83	18:26	N/A	N/A
VVA-225	3/24/2018	83	17:20	3/24/2018	17:24
VVA-226	3/29/2018	88	10:33	3/29/2018	10:36
VVA-227	3/28/2018	87	15:39	3/28/2018	15:42
VVA-228	3/28/2018	87	14:59	3/28/2018	15:02
VVA-229	3/28/2018	87	10:41	3/28/2018	10:44
VVA-230	3/27/2018	86	17:12	3/27/2018	17:15
VVA-231	3/27/2018	86	11:57	3/27/2018	12:00
VVA-232	3/27/2018	86	12:25	3/27/2018	12:28
VVA-233	3/27/2018	86	13:53	3/27/2018	13:56
VVA-234	3/27/2018	86	15:53	3/27/2018	15:56
VVA-235	3/27/2018	86	18:08	3/27/2018	18:11
VVA-236	3/28/2018	87	7:55	3/28/2017	7:58
VVA-237	3/28/2018	87	12:14	3/28/2018	12:17

VVA-238	3/28/2018	87	14:20	3/28/2018	14:23
VVA-239	3/29/2018	88	9:13	3/29/2018	9:16
VVA-240	3/27/2018	86	9:53	N/A	N/A
VVA-241	3/29/2018	88	8:10	N/A	N/A
VVA-242	4/25/2018	115	16:58	N/A	N/A
VVA-243	4/25/2018	115	17:37	N/A	N/A
VVA-244	4/27/2018	117	13:05	N/A	N/A
VVA-245	4/26/2018	116	20:04	N/A	N/A
VVA-246	4/27/2018	117	16:28	N/A	N/A
VVA-247	4/28/2018	118	15:24	N/A	N/A
VVA-248	4/28/2018	118	17:10	N/A	N/A
VVA-249	4/28/2018	118	20:09	N/A	N/A
VVA-250	4/28/2018	118	14:35	N/A	N/A
VVA-251	4/28/2018	118	19:12	N/A	N/A
VVA-252	4/29/2018	119	19:45	N/A	N/A
VVA-253	4/28/2018	118	14:39	N/A	N/A
VVA-255	4/27/2018	117	14:46	N/A	N/A
VVA-256	4/25/2018	115	20:29	N/A	N/A

VVA-257	4/25/2018	115	19:06	N/A	N/A
VVA-258	4/25/2018	115	16:11	N/A	N/A
VVA-259	4/25/2018	115	15:50	N/A	N/A
VVA-260	4/26/2018	116	12:26	N/A	N/A
VVA-261	4/26/2018	116	14:52	4/27/2018	10:00
VVA-262	4/26/2018	116	15:40	4/26/2018	15:40
VVA-263	4/26/2018	116	16:42	4/26/2018	16:45
VVA-264	4/28/2018	118	12:56	4/28/2018	12:59
VVA-265	4/28/2018	118	12:12	4/28/2018	12:15
VVA-266	4/28/2018	118	18:41	4/28/2018	18:44
VVA-267	4/28/2018	118	19:54	4/28/2018	19:59
VVA-268	4/28/2018	118	11:16	4/28/2018	11:19
VVA-269	4/28/2018	118	10:31	4/28/2018	10:34
VVA-270	4/28/2018	118	9:48	4/28/2018	9:51
VVA-271	4/26/2018	116	10:10	4/26/2018	10:13
VVA-272	4/26/2018	116	22:50	4/26/2018	10:53

VVA-273	4/25/2018	115	15:08	4/25/2018	15:04
VVA-274	4/25/2018	115	14:04	4/25/2018	14:07
VVA-275	4/25/2018	115	13:34	4/25/2018	13:37
VVA-276	4/23/2018	113	16:16	4/23/2018	16:19
VVA-277	4/23/2018	113	15:12	4/24/2018	13:28
VVA-278	4/23/2018	113	13:35	4/24/2018	14:15
VVA-279	4/24/2018	114	18:19	4/24/2018	14:15
VVA-280	4/28/2018	118	20:43	4/28/2018	20:46
VVA-281	4/28/2018	118	18:20	4/28/2018	18:24
VVA-282	4/27/2018	117	14:44	4/30/2018	18:53
VVA-283	4/27/2018	117	19:58	4/30/2018	16:45
VVA-284	4/27/2018	117	18:29	4/30/2018	15:50
VVA-285	4/28/2018	118	17:29	N/A	N/A
VVA-286	4/27/2018	117	12:20	N/A	N/A
VVA-287	4/27/2018	117	10:56	N/A	N/A
VVA-288	4/24/2018	114	19:29	N/A	N/A
VVA-289	4/24/2018	114	17:37	N/A	N/A
VVA-290	4/24/2018	114	12:15	N/A	N/A
VVA-291	4/25/2018	115	12:16	N/A	N/A
VVA-292	4/25/2018	115	13:11	N/A	N/A
VVA-293	4/22/2018	112	17:10	N/A	N/A
VVA-294	4/23/2018	113	17:57	N/A	N/A
VVA-295	4/24/2018	114	11:36	N/A	N/A

VVA-296	4/23/2018	113	12:41	N/A	N/A
VVA-297	4/23/2018	113	18:02	N/A	N/A
VVA-298	4/23/2018	113	19:02	N/A	N/A
VVA-299	4/25/2018	115	12:21	N/A	N/A
VVA-300	4/25/2018	115	13:12	N/A	N/A
VVA-301	4/25/2018	115	20:44	N/A	N/A
VVA-302	4/25/2018	115	17:53	N/A	N/A
VVA-303	4/25/2018	115	17:11	N/A	N/A
VVA-304	5/4/2018	124	19:41	N/A	N/A
VVA-305	4/24/2018	114	16:29	N/A	N/A
VVA-306	4/29/2018	119	13:10	N/A	N/A

VVA-307	4/23/2018	113	16:56	N/A	N/A
VVA-308	4/24/2018	114	15:35	N/A	N/A
VVA-309	4/24/2018	114	10:53	N/A	N/A
VVA-310	4/23/2018	113	19:10	N/A	N/A
VVA-311	4/22/2018	112	16:17	N/A	N/A
VVA-312	4/21/2018	111	12:44	N/A	N/A
VVA-313	4/23/2018	113	20:45	N/A	N/A
VVA-314	4/23/2018	113	10:18	N/A	N/A
VVA-315	4/22/2018	112	12:58	N/A	N/A
VVA-316	4/23/2018	113	21:58	N/A	N/A
VVA-317	4/24/2018	114	15:46	N/A	N/A
VVA-318	4/24/2018	114	19:12	N/A	N/A
VVA-319	4/25/2018	115	16:09	N/A	N/A
VVA-320	4/26/2018	116	12:27	4/26/2018	12:30
VVA-321	4/24/2018	114	14:12	4/24/2018	14:15
VVA-322	4/23/2018	113	11:14	4/23/2018	11:17
VVA-323	4/23/2018	113	12:09	4/23/2018	12:12
VVA-324	4/22/2018	112	15:58	4/22/2018	16:01
VVA-325	5/4/2018	124	17:20	N/A	N/A
VVA-326	4/22/2018	112	13:47	N/A	N/A
VVA-327	4/22/2018	112	13:22	N/A	N/A
VVA-328	4/21/2018	111	13:15	N/A	N/A
VVA-329	4/21/2018	111	18:57	N/A	N/A
VVA-330	4/20/2018	110	17:17	N/A	N/A
VVA-331	4/21/2018	111	10:43	4/21/2018	10:46
VVA-332	4/20/2018	110	14:58	4/21/2018	16:01
VVA-333	4/20/2018	110	13:36	4/21/2018	19:11
VVA-334	4/22/2018	112	11:20	4/22/2018	11:23

VVA-335	4/20/2018	110	10:46	4/21/2018	18:44
VVA-336	4/20/2018	110	8:17	N/A	N/A
VVA-337	4/20/2018	110	19:14	N/A	N/A
VVA-338	4/19/2018	109	19:23	N/A	N/A
VVA-339	4/30/2018	120	14:13	N/A	N/A
VVA-340	4/20/2018	110	19:33	N/A	N/A

VVA-341	4/21/2018	111	17:43	N/A	N/A
VVA-342	4/21/2018	111	16:57	N/A	N/A
VVA-343	4/21/2018	111	15:35	N/A	N/A
VVA-344	4/20/2018	110	20:24	N/A	N/A
VVA-345	4/20/2018	110	18:41	N/A	N/A
VVA-346	4/20/2018	110	13:00	N/A	N/A
VVA-347	4/20/2018	110	9:34	N/A	N/A
VVA-348	4/20/2018	110	16:15	N/A	N/A
VVA-349	4/19/2018	109	15:42	N/A	N/A
VVA-350	4/19/2018	109	18:50	N/A	N/A
VVA-351	4/19/2018	109	17:19	N/A	N/A
VVA-352	4/20/2018	110	15:20	N/A	N/A
VVA-353	4/20/2018	110	10:02	N/A	N/A
VVA-354	4/20/2018	110	10:39	N/A	N/A
VVA-355	4/20/2018	110	14:54	N/A	N/A
VVA-356	4/20/2018	110	12:09	N/A	N/A
VVA-357	4/19/2018	109	16:39	N/A	N/A
VVA-358	4/19/2018	109	17:32	N/A	N/A
VVA-359	5/1/2018	121	16:59	N/A	N/A
VVA-360	5/1/2018	121	15:36	N/A	N/A
VVA-361	5/1/2018	121	11:51	5/3/2018	13:38
VVA-362	4/30/2018	120	17:57	5/1/2018	23:54
VVA-363	4/20/2018	110	18:43	5/1/2018	12:33
VVA-364	4/30/2018	120	19:13	5/1/2018	13:00
VVA-365	5/1/2018	121	13:19	5/3/2018	14:24
VVA-366	5/1/2018	121	14:00	5/3/2018	14:41
VVA-367	5/1/2018	121	18:54	5/3/2018	15:33
VVA-368	5/1/2018	121	18:26	5/3/2018	15:49
VVA-369	5/2/2018	122	14:31	N/A	N/A
VVA-370	5/2/2018	122	14:07	N/A	N/A
VVA-371	5/1/2018	121	18:56	N/A	N/A
VVA-372	5/1/2018	121	15:29	N/A	N/A
VVA-373	5/1/2018	121	17:52	N/A	N/A

VVA-374	5/1/2018	121	19:18	N/A	N/A
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VVA-375	5/2/2018	122	16:49	N/A	N/A
VVA-376	5/2/2018	122	19:42	N/A	N/A
VVA-377	5/3/2018	123	18:07	5/3/2018	18:11
VVA-378	5/3/2018	123	18:41	5/3/2018	18:44
VVA-379	5/3/2018	123	17:23	5/3/2018	17:27
VVA-380	5/3/2018	123	16:44	5/3/2018	16:48
VVA-381	5/3/2018	123	15:13	5/3/2018	15:17
VVA-382	5/3/2018	123	13:56	5/3/2018	13:59
VVA-383	4/27/2018	117	19:00	4/27/2018	19:04
VVA-384	4/22/2018	112	14:51	4/22/2018	14:54
VVA-385	4/22/2018	112	13:34	4/27/2018	14:06
VVA-386	4/22/2018	112	16:02	4/27/2018	15:00
VVA-387	4/27/2018	117	17:09	5/3/2018	12:48
VVA-388	5/3/2018	123	13:17	5/4/2018	17:37
VVA-389	5/3/2018	123	14:00	5/3/2018	14:03
VVA-390	5/3/2018	123	15:45	5/3/2018	15:48
VVA-391	5/3/2018	123	17:59	5/3/2018	18:02
VVA-392	5/3/2018	123	19:45	5/3/2018	19:48
VVA-393	5/3/2018	123	19:42	5/3/2018	19:46
VVA-394	5/3/2018	123	20:54	5/3/2018	20:57
VVA-395	5/3/2018	123	19:13	5/3/2018	19:16
VVA-396	5/3/2018	123	14:40	5/3/2018	14:43
VVA-397	5/3/2018	123	11:36	5/4/2018	16:30
VVA-398	4/27/2018	117	15:58	4/27/2018	16:01
VVA-399	4/22/2018	112	11:52	5/4/2018	18:30
VVA-400	4/26/2018	116	19:10	4/26/2018	19:13
VVA-401	4/27/2018	117	11:25	5/3/2018	1:49
VVA-402	4/25/2018	115	17:14	4/26/2018	18:18
VVA-403	4/24/2018	114	19:03	4/24/2018	19:08
VVA-404	4/24/2018	114	18:12	4/26/2018	17:05
VVA-405	4/25/2018	115	14:59	N/A	N/A
VVA-406	4/25/2018	115	14:28	N/A	N/A
VVA-407	4/24/2018	114	11:52	N/A	N/A
VVA-408	4/24/2018	114	17:10	N/A	N/A
VVA-408A	4/25/2018	115	15:31	N/A	N/A

VVA-409	4/24/2018	114	14:40	N/A	N/A
VVA-410	4/24/2018	114	13:21	4/26/2018	13:20
VVA-411	4/22/2018	112	12:34	4/22/2018	12:37

VVA-412	4/22/2018	112	13:17	4/22/2018	13:20
VVA-413	4/24/2018	114	15:09	4/26/2018	14:28
VVA-415	4/22/2018	112	15:54	4/22/2018	15:57
VVA-416	4/22/2018	112	14:56	4/22/2018	14:59
VVA-417	4/19/2018	109	14:00	4/22/2018	11:01
VVA-418	4/20/2018	110	15:04	4/20/2018	15:07
VVA-419	4/20/2018	110	14:25	4/20/2018	14:28
VVA-420	4/19/2018	109	18:11	4/20/2018	10:39
VVA-421	4/19/2018	109	16:34	4/20/2018	17:04
VVA-422	4/19/2018	109	14:35	4/22/2018	10:23
VVA-423	4/19/2018	109	12:47	4/20/2018	18:15
VVA-424	4/19/2018	109	12:19	4/20/2018	18:38
VVA-425	4/19/2018	109	11:12	4/20/2018	19:14
VVA-426	4/19/2018	109	9:59	4/20/2018	19:09
VVA-427	4/21/2018	111	10:59	4/21/2018	11:02
VVA-428	4/21/2018	111	12:16	4/21/2018	12:19
VVA-429	4/21/2018	111	13:16	4/21/2018	13:20
VVA-430	4/21/2018	111	12:09	4/21/2018	12:14
VVA-431	4/21/2018	111	11:38	4/21/2018	11:41
VVA-432	4/19/2018	109	11:02	4/20/2018	18:11
VVA-433	4/19/2018	109	18:40	4/20/2018	10:45
VVA-434	4/20/2018	110	11:38	4/20/2018	11:42
VVA-435	4/19/2018	109	17:35	4/19/2018	17:39
VVA-436	4/19/2018	109	12:29	4/20/2018	17:19
VVA-437	4/19/2018	109	13:53	4/20/2018	16:28
VVA-438	4/18/2018	108	19:25	4/19/2018	15:43
VVA-439	4/18/2018	108	16:42	4/18/2018	16:46
VVA-440	4/18/2018	108	13:00	4/18/2018	13:03
VVA-441	4/20/2018	110	14:10	4/18/2018	14:13
VVA-442	4/21/2018	111	14:59	4/21/2018	15:02
VVA-443	4/21/2018	111	15:47	4/21/2018	15:50

VVA-444	4/21/2018	111	18:33	4/21/2018	18:37
VVA-445	4/21/2018	111	19:39	4/21/2018	19:43
VVA-446	4/21/2018	111	15:01	4/21/2018	15:04
VVA-447	4/18/2018	108	15:39	4/18/2018	15:42
VVA-448	4/18/2018	108	12:58	4/18/2018	13:01
VVA-449	4/18/2018	108	15:00	4/18/2018	15:03
VVA-450	4/21/2018	111	15:40	N/A	N/A
VVA-451	4/18/2018	108	14:27	N/A	N/A
VVA-452	4/21/2018	111	16:35	N/A	N/A
VVA-453	4/21/2018	111	17:19	N/A	N/A
VVA-454	4/17/2018	107	12:19	N/A	N/A
VVA-455	4/17/2018	107	11:32	N/A	N/A
VVA-456	4/16/2018	106	19:50	N/A	N/A
VVA-457	4/16/2018	106	17:56	N/A	N/A
VVA-458	4/17/2018	107	8:59	N/A	N/A
VVA-459	4/18/2018	108	10:02	N/A	N/A
VVA-460	4/16/2018	106	14:43	N/A	N/A
VVA-461	4/16/2018	106	16:39	N/A	N/A
VVA-462	4/17/2018	107	9:51	N/A	N/A
VVA-463	4/17/2018	107	11:50	N/A	N/A
VVA-464	4/18/2018	108	12:42	N/A	N/A
VVA-465	4/17/2018	107	14:58	N/A	N/A
VVA-466	4/17/2018	107	18:51	N/A	N/A
VVA-467	4/17/2018	107	17:42	N/A	N/A
VVA-468	4/16/2018	106	17:13	N/A	N/A
VVA-469	4/16/2018	106	14:28	N/A	N/A
VVA-470	4/16/2018	106	18:27	N/A	N/A
VVA-471	4/17/2018	107	13:04	N/A	N/A
VVA-472	4/16/2018	106	13:00	N/A	N/A
VVA-473	4/16/2018	106	15:19	N/A	N/A
VVA-474	4/16/2018	106	16:19	N/A	N/A
VVA-475	4/16/2018	106	18:12	N/A	N/A
VVA-476	4/17/2018	107	9:08	N/A	N/A
VVA-477	4/17/2018	107	12:19	N/A	N/A
VVA-478	4/16/2018	106	19:38	N/A	N/A



## 5. POINT COMPARISON

Point ID	Point CK	Delta North (M)	Delta East (M)	Vertical Difference (M)
NVA				
NVA-1	NVA-1CK	0.003	-0.002	-0.002
NVA-2	NVA-2CK	0.000	-0.002	0.000
NVA-3	NVA-3CK	-0.001	-0.001	0.004
NVA-4	NVA-4CK	-0.003	0.007	-0.008
NVA-5	NVA-5CK	0.003	0.004	-0.011
NVA-6	NVA-6CK	0.005	-0.006	0.011
NVA-7	NVA-7CK	-0.004	-0.002	-0.019
NVA-8	NVA-8CK	-0.013	0.008	-0.014
NVA-9	NVA-9CK	0.011	-0.007	0.004
NVA-26	NVA-26CK	0.003	-0.003	-0.005
NVA-27	NVA-27CK	0.000	-0.001	-0.016
NVA-28	NVA-28CK	-0.003	-0.003	0.007
NVA-29	NVA-29CK	0.001	0.004	0.002
NVA-30	NVA-30CK	-0.002	0.002	0.000
NVA-31	NVA-31CK	0.000	0.001	0.001
NVA-32	NVA-32CK	0.006	0.000	-0.023
NVA-33	NVA-33CK	0.004	0.007	-0.012
NVA-34	NVA-34CK	-0.017	0.006	0.036
NVA-35	NVA-35CK	-0.001	0.007	-0.026

NVA-36	NVA-36CK	-0.019	-0.010	-0.065
NVA-37	NVA-37CK	0.003	-0.015	-0.017
NVA-39	NVA-39CK	-0.008	0.015	-0.009
NVA-40	NVA-40CK	-0.013	-0.001	-0.023
NVA-41	NVA-41CK	-0.002	-0.001	0.020
NVA-42	NVA-42CK	0.002	0.002	-0.009
NVA-43	NVA-43CK	0.004	-0.001	-0.001
NVA-44	NVA-44CK	-0.002	-0.001	0.031
NVA-45	NVA-45CK	0.003	0.008	-0.004
NVA-46	NVA-46CK	-0.004	-0.005	-0.022
NVA-47	NVA-47CK	-0.012	-0.011	0.011
NVA-48	NVA-48CK	-0.004	0.010	-0.033
NVA-49	NVA-49CK	0.001	0.001	-0.004
NVA-76	NVA-76CK	-0.002	0.000	-0.001
NVA-77	NVA-77CK	-0.001	-0.006	0.024
NVA-78	NVA-78CK	0.000	0.000	0.010

NVA-79	NVA-79CK	-0.001	-0.001	0.002
NVA-80	NVA-80CK	-0.002	0.000	0.000
NVA-81	NVA-81CK	0.001	-0.008	-0.004
NVA-82	NVA-82CK	-0.004	0.006	0.014
NVA-83	NVA-83CK	0.000	0.002	-0.004
NVA-84	NVA-84CK	-0.002	-0.005	-0.003
NVA-85	NVA-85CK	0.006	0.014	-0.030
NVA-86	NVA-86CK	0.000	0.002	0.002
NVA-87	NVA-87CK	0.003	0.002	0.011
NVA-88	NVA-88CK	-0.001	0.000	-0.001
NVA-89	NVA-89CK	-0.001	-0.003	0.014
NVA-90	NVA-90CK	-0.001	0.002	-0.003
NVA-91	NVA-91CK	-0.003	0.005	-0.005
NVA-92	NVA-92CK	-0.012	-0.002	-0.011
NVA-93	NVA-93CK	0.000	-0.008	-0.014
NVA-94	NVA-94CK	0.001	0.002	-0.003
NVA-105	NVA-105CK	0.003	-0.003	-0.004

NVA-106	NVA-106CK	-0.005	0.002	-0.016
NVA-107	NVA-107CK	-0.002	-0.003	0.003
NVA-108	NVA-108CK	0.000	0.000	0.000
NVA-109	NVA-109CK	-0.002	0.000	0.007
NVA-126	NVA-126CK	0.003	0.002	-0.004
NVA-127	NVA-127CK	0.000	-0.004	0.016
NVA-128	NVA-128CK	-0.003	0.005	0.009
NVA-129	NVA-129CK	-0.007	0.006	0.001
NVA-130	NVA-130CK	0.000	0.003	0.014
NVA-131	NVA-131CK	0.002	0.000	0.006
NVA-132	NVA-132CK	-0.001	-0.003	0.008
NVA-133	NVA-133CK	0.004	0.006	-0.005
NVA-134	NVA-134CK	-0.003	0.002	-0.002
NVA-135	NVA-135CK	0.003	-0.002	0.027
NVA-136	NVA-136CK	0.000	-0.002	0.001
NVA-137	NVA-137CK	0.005	-0.002	-0.015
NVA-138	NVA-138CK	0.006	-0.002	-0.001
NVA-139	NVA-139CK	-0.004	0.008	0.017
NVA-140	NVA-140CK	0.003	0.003	0.006
NVA-141	NVA-141CK	0.003	0.002	0.011
NVA-142	NVA-142CK	0.005	0.008	-0.013
NVA-143	NVA-143CK	0.006	-0.004	0.013
NVA-144	NVA-144CK	0.005	0.004	-0.002

NVA-145	NVA-145CK	-0.001	0.001	-0.005
NVA-146	NVA-146CK	0.003	0.001	-0.001
NVA-147	NVA-147CK	-0.005	0.000	0.002
NVA-148	NVA-148CK	-0.001	-0.003	-0.002
NVA-149	NVA-149CK	0.000	-0.002	0.003
NVA-176	NVA-176CK	-0.021	0.002	0.006
NVA-177	NVA-177CK	0.001	-0.004	0.008
NVA-178	NVA-178CK	-0.002	0.003	-0.006
NVA-205	NVA-205CK	-0.003	0.000	0.019
NVA-206	NVA-206CK	0.002	0.000	0.009
NVA-207	NVA-207CK	-0.003	0.003	0.001

NVA-208	NVA-208CK	-0.003	-0.001	-0.004
NVA-209	NVA-209CK	0.000	0.003	0.004
NVA-225	NVA-225CK	0.001	0.000	0.009
NVA-226	NVA-226CK	-0.004	0.000	-0.020
NVA-227	NVA-227CK	0.000	-0.002	-0.002
NVA-228	NVA-228CK	-0.006	-0.005	0.010
NVA-229	NVA-229CK	-0.003	-0.003	-0.016
NVA-230	NVA-230CK	0.002	-0.001	0.001
NVA-231	NVA-231CK	-0.003	-0.008	0.010
NVA-232	NVA-232CK	-0.002	0.004	0.000
NVA-233	NVA-233CK	-0.003	0.003	-0.002
NVA-234	NVA-234CK	0.000	-0.002	0.002
NVA-235	NVA-235CK	0.002	0.009	-0.009
NVA-236	NVA-236CK	-0.004	-0.001	-0.014
NVA-237	NVA-237CK	0.002	0.002	-0.002
NVA-238	NVA-238CK	0.000	0.000	0.014
NVA-239	NVA-239CK	0.001	0.004	-0.009
NVA-240	NVA-240CK	0.000	-0.004	0.009
NVA-241	NVA-241CK	-0.004	0.012	-0.031
NVA-242	NVA-242CK	0.002	-0.009	0.015
NVA-243	NVA-243CK	-0.005	-0.013	-0.005
NVA-244	NVA-244CK	0.001	0.000	0.014
NVA-245	NVA-245CK	-0.005	0.006	0.019
NVA-246	NVA-246CK	0.008	0.000	-0.026
NVA-247	NVA-247CK	0.006	0.000	0.012
NVA-248	NVA-248CK	-0.002	0.005	-0.023
NVA-249	NVA-249CK	0.008	-0.008	0.008
NVA-275	NVA-275CK	-0.002	-0.003	-0.001
NVA-276	NVA-276CK	0.003	-0.001	-0.004

NVA-277	NVA-277CK	0.007	0.002	-0.005
NVA-278	NVA-278CK	0.005	0.000	0.012
NVA-279	NVA-279CK	0.001	0.005	0.008
NVA-280	NVA-280CK	-0.012	-0.001	-0.005
NVA-281	NVA-281CK	-0.007	0.005	-0.016

NVA-282	NVA-282CK	-0.002	0.007	0.019
NVA-283	NVA-283CK	-0.003	0.004	0.017
NVA-284	NVA-284CK	-0.001	-0.002	0.011
NVA-285	NVA-285CK	0.006	0.007	-0.032
NVA-286	NVA-286CK	0.001	-0.014	0.008
NVA-287	NVA-287CK	-0.003	0.003	0.001
NVA-288	NVA-288CK	-0.007	-0.011	0.012
NVA-289	NVA-289CK	0.002	-0.003	-0.008
NVA-290	NVA-290CK	0.001	0.000	0.005
NVA-291	NVA-291CK	-0.002	-0.002	0.000
NVA-292	NVA-292CK	0.013	0.001	0.007
NVA-293	NVA-293CK	-0.006	0.001	0.013
NVA-294	NVA-294CK	0.004	-0.005	-0.004
NVA-305	NVA-305CK	-0.007	-0.002	0.001
NVA-306	NVA-306CK	0.002	-0.007	-0.003
NVA-307	NVA-307CK	0.000	0.003	0.005
NVA-308	NVA-308CK	-0.001	-0.008	0.012
NVA-309	NVA-309CK	0.001	0.001	-0.027
NVA-325	NVA-325CK	-0.001	-0.004	0.010
NVA-326	NVA-326CK	0.000	0.003	0.011
NVA-327	NVA-327CK	-0.001	-0.005	0.020
NVA-328	NVA-328CK	-0.009	0.003	-0.003
NVA-329	NVA-329CK	0.000	-0.009	0.014
NVA-330	NVA-330CK	0.010	0.012	-0.004
NVA-331	NVA-331CK	-0.011	-0.014	0.011
NVA-332	NVA-332CK	-0.008	-0.009	-0.022
NVA-333	NVA-333CK	0.000	-0.004	-0.011
NVA-334	NVA-334CK	-0.012	0.001	-0.008
NVA-335	NVA-335CK	-0.002	-0.004	-0.004
NVA-336	NVA-336CK	-0.015	-0.014	0.037
NVA-337	NVA-337CK	-0.002	0.000	0.001
NVA-338	NVA-338CK	0.000	0.002	-0.001
NVA-339	NVA-339CK	0.000	0.003	0.002
NVA-340	NVA-340CK	-0.002	0.001	-0.004
NVA-341	NVA-341CK	0.007	0.008	-0.004

NVA-342	NVA-342CK	0.000	0.001	-0.002
NVA-343	NVA-343CK	0.013	-0.002	0.005
NVA-344	NVA-344CK	-0.005	0.001	0.001
NVA-345	NVA-345CK	-0.001	0.011	-0.010
NVA-346	NVA-346CK	-0.002	-0.003	-0.006
NVA-347	NVA-347CK	-0.001	-0.001	0.006
NVA-348	NVA-348CK	0.003	-0.003	-0.009
NVA-349	NVA-349CK	0.001	-0.006	0.008
NVA-375	NVA-375CK	0.005	-0.015	0.003
NVA-376	NVA-376CK	0.000	0.000	-0.010
NVA-377	NVA-377CK	0.002	0.010	-0.005
NVA-378	NVA-378CK	0.002	0.001	0.002
NVA-379	NVA-379CK	0.012	0.014	-0.016
NVA-380	NVA-380CK	-0.009	-0.009	0.023
NVA-381	NVA-381CK	-0.003	-0.003	0.004
NVA-382	NVA-382CK	0.008	0.001	0.024
NVA-383	NVA-383CK	-0.001	-0.006	-0.002
NVA-384	NVA-384CK	0.012	-0.009	-0.022
NVA-385	NVA-385CK	-0.005	-0.005	-0.010
NVA-386	NVA-386CK	-0.016	-0.014	-0.008
NVA-387	NVA-387CK	0.008	0.003	-0.003
NVA-388	NVA-388CK	-0.006	-0.010	-0.008
NVA-389	NVA-389CK	0.000	-0.002	0.022
NVA-390	NVA-390CK	0.006	0.004	-0.024
NVA-391	NVA-391CK	-0.005	-0.002	-0.011
NVA-392	NVA-392CK	0.021	0.003	0.000
NVA-393	NVA-393CK	0.015	-0.003	0.031
NVA-394	NVA-394CK	0.008	-0.001	-0.036
NVA-405	NVA-405CK	0.014	0.008	0.002
NVA-406	NVA-406CK	0.011	0.014	-0.007
NVA-407	NVA-407CK	0.009	0.009	0.001
NVA-408	NVA-408CK	0.003	0.001	0.014
NVA-409	NVA-409CK	0.001	0.000	-0.003
NVA-425	NVA-425CK	0.001	-0.016	0.025

NVA-426	NVA-426CK	-0.009	0.004	0.010
NVA-427	NVA-427CK	-0.003	0.004	0.003
NVA-428	NVA-428CK	-0.001	0.004	-0.007
NVA-429	NVA-429CK	0.001	0.014	-0.039
NVA-430	NVA-430CK	-0.007	-0.008	0.013
NVA-431	NVA-431CK	0.004	-0.002	-0.007

NVA-432	NVA-432CK	-0.001	0.000	0.005
NVA-433	NVA-433CK	0.002	-0.005	0.013
NVA-434	NVA-434CK	-0.001	0.001	-0.008
NVA-435	NVA-435CK	0.001	0.000	-0.015
NVA-436	NVA-436CK	-0.006	0.006	0.001
NVA-437	NVA-437CK	0.008	-0.016	-0.013
NVA-438	NVA-438CK	0.008	-0.002	0.000
NVA-439	NVA-439CK	-0.001	0.001	0.017
NVA-440	NVA-440CK	0.007	0.004	0.020
NVA-441	NVA-441CK	0.003	0.011	0.019
NVA-442	NVA-442CK	0.007	0.001	0.010
NVA-443	NVA-443CK	-0.007	0.000	0.000
NVA-444	NVA-444CK	0.004	0.002	0.010
NVA-445	NVA-445CK	0.006	-0.003	0.004
NVA-446	NVA-446CK	-0.009	0.004	-0.022
NVA-447	NVA-447CK	0.003	0.008	-0.007
NVA-448	NVA-448CK	-0.007	0.015	-0.025
NVA-449	NVA-449CK	-0.009	0.017	0.003
NVA-475	NVA-475CK	0.011	0.010	0.001
NVA-476	NVA-476CK	0.005	0.004	0.000
NVA-477	NVA-477CK	0.003	0.001	0.005
NVA-478	NVA-478CK	0.002	0.001	0.003
NVA-479	NVA-479CK	0.005	0.001	0.018
NVA-480	NVA-480CK	0.004	0.002	-0.009
NVA-481	NVA-481CK	-0.007	-0.010	0.005
NVA-482	NVA-482CK	0.002	-0.006	-0.010
NVA-483	NVA-483CK	0.000	-0.003	-0.016
NVA-484	NVA-484CK	0.001	0.002	0.014

NVA-485	NVA-485CK	0.017	-0.014	-0.026
NVA-486	NVA-486CK	-0.012	-0.001	0.030
NVA-487	NVA-487CK	0.003	0.007	-0.017
NVA-488	NVA-488CK	0.010	-0.009	0.008
NVA-489	NVA-489CK	0.003	-0.003	0.019
NVA-490	NVA-490CK	0.003	0.001	0.005
NVA-491	NVA-491CK	0.000	-0.005	0.012
NVA-492	NVA-492CK	0.000	-0.009	-0.011
NVA-493	NVA-493CK	-0.005	0.010	-0.004
NVA-494	NVA-494CK	-0.007	-0.001	-0.014
NVA-495	NVA-495CK	0.009	0.000	-0.002
NVA-496	NVA-496CK	-0.006	-0.004	0.008

NVA-497	NVA-497CK	0.002	-0.004	-0.017
NVA-498	NVA-498CK	0.006	-0.007	0.028
NVA-499	NVA-499CK	0.000	-0.004	0.004
NVA-500	NVA-500CK	0.005	0.004	-0.018
NVA-501	NVA-501CK	0.003	0.004	0.005
NVA-502	NVA-502CK	-0.002	-0.006	0.005
NVA-503	NVA-503CK	0.002	-0.003	-0.031
NVA-504	NVA-504CK	0.024	0.001	-0.009
NVA-505	NVA-505CK	0.002	0.006	-0.025
NVA-506	NVA-506CK	0.005	-0.005	0.017
NVA-507	NVA-507CK	0.005	-0.006	0.009
NVA-508	NVA-508CK	0.001	-0.008	0.015
NVA-509	NVA-509CK	-0.005	-0.004	0.009
NVA-525	NVA-525CK	-0.001	-0.001	-0.021
NVA-526	NVA-526CK	0.006	0.008	-0.005
NVA-527	NVA-527CK	0.004	-0.008	-0.015
NVA-528	NVA-528CK	-0.006	-0.007	-0.015
NVA-529	NVA-529CK	-0.006	-0.008	-0.015
NVA-530	NVA-530CK	-0.002	-0.005	-0.001
NVA-531	NVA-531CK	0.013	-0.012	0.001
NVA-532	NVA-532CK	-0.005	-0.007	-0.028
NVA-533	NVA-533CK	0.007	-0.024	-0.021



NVA-534	NVA-534CK	0.019	0.016	-0.009
NVA-535	NVA-535CK	0.036	0.010	0.030
NVA-536	NVA-536CK	0.019	-0.003	-0.002
NVA-538	NVA-538CK	0.000	-0.004	-0.012
NVA-539	NVA-539CK	-0.008	-0.005	0.007
NVA-540	NVA-540CK	-0.005	0.000	0.002
NVA-541	NVA-541CK	0.015	0.011	-0.017
NVA-542	NVA-542CK	-0.001	-0.005	-0.008
NVA-543	NVA-543CK	0.020	-0.009	0.000
NVA-544	NVA-544CK	-0.033	-0.027	0.034
NVA-545	NVA-545CK	0.003	0.009	-0.011
NVA-546	NVA-546CK	-0.003	0.004	-0.031
NVA-547	NVA-547CK	0.011	0.013	-0.018
NVA-548	NVA-548CK	-0.007	0.003	-0.005
NVA-549	NVA-549CK	-0.006	0.007	-0.004
NVA-575	NVA-575CK	-0.003	-0.003	0.001
NVA-576	NVA-576CK	0.000	0.004	0.000
NVA-577	NVA-577CK	-0.006	0.023	0.007

NVA-578	NVA-578CK	0.009	0.007	0.004
NVA-579	NVA-579CK	-0.006	-0.001	-0.019
NVA-580	NVA-580CK	-0.005	0.011	0.012
NVA-581	NVA-581CK	0.001	0.001	-0.002
NVA-582	NVA-582CK	-0.003	0.000	-0.002
NVA-583	NVA-583CK	-0.004	0.002	0.006
NVA-584	NVA-584CK	0.000	0.003	-0.002
NVA-585	NVA-585CK	-0.002	0.002	-0.017
NVA-586	NVA-586CK	-0.008	0.004	0.002
NVA-587	NVA-587CK	-0.001	-0.004	-0.001
NVA-588	NVA-588CK	0.004	0.005	0.005
NVA-589	NVA-589CK	-0.003	-0.003	-0.008
NVA-590	NVA-590CK	0.006	-0.004	-0.010
NVA-591	NVA-591CK	0.007	0.001	-0.015
NVA-592	NVA-592CK	0.019	0.008	-0.021
NVA-593	NVA-593CK	0.002	-0.008	-0.013

NVA-594	NVA-594CK	0.006	0.001	0.015
NVA-595	NVA-595CK	-0.010	-0.001	0.003
NVA-596	NVA-596CK	-0.022	-0.004	-0.002
NVA-597	NVA-597CK	-0.002	0.003	0.005
NVA-598	NVA-598CK	0.004	-0.004	-0.001
NVA-599	NVA-599CK	-0.006	0.009	0.008
NVA-600	NVA-600CK	-0.002	-0.004	0.011
NVA-601	NVA-601CK	-0.001	-0.005	-0.013
NVA-602	NVA-602CK	-0.001	0.004	0.009
NVA-603	NVA-603CK	0.001	-0.007	-0.020
NVA-604	NVA-604CK	-0.001	-0.002	-0.001
NVA-605	NVA-605CK	0.007	0.004	0.013
NVA-606	NVA-606CK	-0.027	0.004	0.011
NVA-607	NVA-607CK	-0.002	0.000	-0.002
NVA-608	NVA-608CK	0.007	0.010	0.002
NVA-609	NVA-609CK	0.002	-0.001	0.003
NVA-625	NVA-625CK	0.002	0.001	0.001
NVA-626	NVA-626CK	0.002	0.003	0.004
NVA-627	NVA-627CK	0.001	0.006	0.007
NVA-628	NVA-628CK	0.001	0.003	0.006
NVA-629	NVA-629CK	0.000	0.001	-0.008
NVA-630	NVA-630CK	-0.007	0.006	-0.001
NVA-631	NVA-631CK	0.008	-0.009	-0.010
NVA-632	NVA-632CK	-0.006	-0.013	-0.030

NVA-633	NVA-633CK	0.006	-0.001	-0.006
NVA-634	NVA-634CK	0.013	0.008	0.008
NVA-635	NVA-635CK	0.000	0.001	-0.003
NVA-636	NVA-636CK	0.003	-0.004	0.000
NVA-637	NVA-637CK	-0.003	-0.001	-0.001
NVA-638	NVA-638CK	0.006	-0.003	0.010
NVA-639	NVA-639CK	0.000	0.007	-0.013
NVA-640	NVA-640CK	-0.003	-0.003	-0.014
NVA-641	NVA-641CK	0.009	0.001	-0.012
NVA-642	NVA-642CK	-0.001	-0.007	-0.001

NVA-643	NVA-643CK	0.009	0.003	0.017
NVA-644	NVA-644CK	-0.006	-0.001	0.000
NVA-645	NVA-645CK	0.001	0.001	-0.015
NVA-646	NVA-646CK	0.005	0.002	0.030
NVA-647	NVA-647CK	-0.003	0.000	0.008
NVA-648	NVA-648CK	0.003	-0.010	0.019
NVA-649	NVA-649CK	0.001	0.004	0.002
NVA-675	NVA-675CK	0.003	0.000	-0.004
NVA-676	NVA-676CK	0.000	0.000	0.003
NVA-677	NVA-677CK	-0.002	0.003	0.003
NVA-678	NVA-678CK	-0.003	-0.001	-0.003
NVA-679	NVA-679CK	-0.004	-0.005	0.002
NVA-680	NVA-680CK	-0.010	0.006	0.003
NVA-681	NVA-681CK	-0.002	-0.003	-0.007
NVA-682	NVA-682CK	-0.002	0.007	0.001
NVA-683	NVA-683CK	-0.003	0.008	0.007
NVA-684	NVA-684CK	-0.003	-0.001	-0.011
NVA-685	NVA-685CK	-0.002	0.001	-0.004
NVA-686	NVA-686CK	0.001	0.005	0.002
NVA-687	NVA-687CK	0.011	-0.013	-0.003
NVA-688	NVA-688CK	-0.001	-0.004	0.017
NVA-689	NVA-689CK	-0.004	0.007	0.008
NVA-690	NVA-690CK	-0.002	0.002	-0.009
NVA-691	NVA-691CK	0.000	-0.004	-0.008
NVA-692	NVA-692CK	-0.001	0.006	0.012
NVA-693	NVA-693CK	-0.002	-0.004	-0.009
NVA-694	NVA-694CK	-0.002	0.001	0.000
<b>VVA</b>				
VVA-1	VVA-1	0.002	0.002	-0.013
VVA-2	VVA-2	-0.002	0.005	-0.007

VVA-3	VVA-3	-0.003	-0.006	-0.021
VVA-4	VVA-4	0.004	-0.001	-0.002
VVA-5	VVA-5	-0.001	-0.003	-0.008
VVA-6	VVA-6	0.003	-0.010	-0.021

VVA-7	VVA-7	-0.007	-0.001	-0.017
VVA-8	VVA-8	-0.008	0.008	-0.011
VVA-9	VVA-9	0.013	0.010	0.035
VVA-35	VVA-35	0.004	0.004	0.024
VVA-36	VVA-36	0.007	0.001	0.000
VVA-37	VVA-37	0.004	0.002	-0.009
VVA-38	VVA-38	0.003	0.000	0.006
VVA-39	VVA-39	0.005	-0.005	-0.010
VVA-40	VVA-40	0.009	-0.019	0.005
VVA-41	VVA-41	0.006	-0.010	0.005
VVA-42	VVA-42	0.000	-0.011	-0.002
VVA-43	VVA-43	0.002	-0.001	-0.012
VVA-44	VVA-44	-0.007	-0.002	-0.017
VVA-45	VVA-45	-0.003	-0.005	0.003
VVA-46	VVA-46	0.002	0.008	0.014
VVA-47	VVA-47CK	-0.002	-0.002	0.002
VVA-48	VVA-48CK	0.006	0.004	-0.011
VVA-49	VVA-49CK	-0.002	-0.004	0.013
VVA-50	VVA-50CK	0.019	0.006	-0.006
VVA-51	VVA-51CK	-0.008	0.006	-0.024
VVA-52	VVA-52CK	-0.003	-0.002	-0.006
VVA-53	VVA-53CK	0.008	0.008	-0.004
VVA-54	VVA-54CK	-0.001	0.000	0.001
VVA-55	VVA-55CK	0.004	0.007	-0.011
VVA-56	VVA-56CK	-0.004	-0.002	-0.003
VVA-57	VVA-57CK	0.001	0.002	-0.002
VVA-58	VVA-58CK	-0.002	0.000	0.005
VVA-59	VVA-59CK	0.002	0.000	-0.009
VVA-60	VVA-60CK	0.005	-0.002	-0.003
VVA-61	VVA-61CK	0.006	-0.002	0.000
VVA-62	VVA-62CK	0.000	0.000	-0.009
VVA-63	VVA-63CK	-0.003	-0.001	-0.006
VVA-64	VVA-64CK	0.000	0.001	0.002
VVA-65	VVA-65CK	-0.002	0.001	-0.002
VVA-66	VVA-66CK	-0.001	-0.004	0.012

VVA-67	VVA-67CK	0.005	-0.006	-0.002
VVA-68	VVA-68CK	0.002	-0.006	-0.004
VVA-69	VVA-69CK	-0.002	0.001	0.001
VVA-70	VVA-70CK	0.000	0.003	0.011
VVA-71	VVA-71CK	0.000	-0.001	-0.008
VVA-72	VVA-72CK	-0.003	-0.003	-0.006
VVA-73	VVA-73CK	0.004	0.000	-0.002
VVA-74	VVA-74CK	-0.002	-0.005	-0.004
VVA-75	VVA-75CK	0.004	-0.001	-0.009
VVA-76	VVA-76CK	0.010	0.003	0.002
VVA-77	VVA-77CK	0.013	0.002	-0.029
VVA-78	VVA-78CK	0.005	-0.002	-0.012
VVA-79	VVA-79CK	-0.003	-0.007	-0.001
VVA-80	VVA-80CK	-0.009	0.010	0.012
VVA-81	VVA-81CK	-0.005	-0.001	0.006
VVA-82	VVA-82CK	0.002	0.000	0.011
VVA-83	VVA-83CK	0.003	-0.002	-0.002
VVA-84	VVA-84CK	-0.017	-0.004	-0.007
VVA-85	VVA-85CK	-0.002	-0.008	-0.021
VVA-86	VVA-86CK	0.003	0.002	-0.014
VVA-87	VVA-87CK	0.000	0.000	0.005
VVA-88	VVA-88CK	-0.003	-0.001	-0.002
VVA-89	VVA-89CK	0.003	0.003	0.000
VVA-100	VVA-100	0.001	-0.001	-0.003
VVA-101	VVA-101	0.013	0.006	-0.019
VVA-102	VVA-102	-0.001	-0.011	-0.001
VVA-103	VVA-103	-0.003	-0.001	0.009
VVA-104	VVA-104	0.004	0.001	0.004
VVA-105	VVA-105	0.003	-0.001	-0.002
VVA-106	VVA-106	-0.003	-0.004	0.001
VVA-107	VVA-107	0.005	-0.002	-0.021
VVA-108	VVA-108	-0.002	0.004	0.009
VVA-109	VVA-109	0.001	0.000	0.004
VVA-110	VVA-110	0.000	0.005	-0.002

VVA-141	VVA-141	-0.003	0.002	0.002
VVA-142	VVA-142	0.006	0.000	-0.006
VVA-143	VVA-143	0.002	-0.001	0.002
VVA-144	VVA-144	-0.001	0.001	0.001
VVA-145	VVA-145	0.000	-0.002	-0.001
VVA-146	VVA-146	-0.001	0.002	-0.003
VVA-147	VVA-147	0.002	0.001	0.003

VVA-148	VVA-148	0.001	-0.001	0.005
VVA-149	VVA-149	0.002	-0.002	0.001
VVA-150	VVA-150	-0.005	0.004	0.006
VVA-151	VVA-151	-0.001	-0.004	-0.004
VVA-152	VVA-152	-0.004	-0.001	-0.002
VVA-153	VVA-153	0.002	0.001	0.010
VVA-154	VVA-154	0.006	0.002	0.011
VVA-155	VVA-155	-0.006	0.004	-0.002
VVA-156	VVA-156	-0.002	0.000	0.001
VVA-157	VVA-157	-0.003	0.004	-0.010
VVA-158	VVA-158	-0.001	0.005	-0.003
VVA-159	VVA-159	0.010	-0.007	0.001
VVA-180	VVA-180CK	-0.004	0.002	0.009
VVA-181	VVA-181CK	-0.002	0.000	0.007
VVA-182	VVA-182CK	-0.007	0.002	0.009
VVA-183	VVA-183CK	0.004	-0.001	0.008
VVA-184	VVA-184CK	0.009	-0.001	0.030
VVA-185	VVA-185CK	0.009	0.002	-0.018
VVA-186	VVA-186CK	-0.001	0.002	0.001
VVA-187	VVA-187CK	0.003	0.006	-0.002
VVA-188	VVA-188CK	-0.003	0.002	0.009
VVA-189	VVA-189CK	-0.004	-0.003	0.005
VVA-190	VVA-190CK	0.000	0.005	-0.020
VVA-191	VVA-191CK	-0.001	-0.003	0.011
VVA-192	VVA-192CK	0.001	-0.002	0.001
VVA-193	VVA-193CK	0.003	-0.004	0.000
VVA-194	VVA-194CK	0.008	0.006	-0.007

VVA-195	VVA-195CK	0.003	-0.002	0.004
VVA-196	VVA-196CK	0.002	0.005	0.005
VVA-197	VVA-197CK	0.000	0.001	-0.006
VVA-198	VVA-198CK	0.004	0.003	0.006
VVA-199	VVA-199CK	-0.011	0.005	-0.030
VVA-225	VVA-225CK	-0.001	-0.001	0.015
VVA-226	VVA-226CK	0.005	0.001	0.021
VVA-227	VVA-227CK	-0.005	-0.001	-0.007
VVA-228	VVA-228CK	-0.002	-0.005	0.003
VVA-229	VVA-229CK	0.002	-0.004	-0.006
VVA-230	VVA-230CK	-0.002	-0.002	-0.005
VVA-231	VVA-231CK	0.004	-0.004	0.006
VVA-232	VVA-232CK	-0.004	0.000	-0.002

VVA-233	VVA-233CK	0.002	-0.009	0.002
VVA-234	VVA-234CK	-0.001	0.004	0.005
VVA-235	VVA-235CK	-0.005	0.004	-0.001
VVA-236	VVA-236CK	-0.012	0.000	-0.007
VVA-237	VVA-237CK	-0.004	0.002	-0.001
VVA-238	VVA-238CK	0.000	0.007	-0.004
VVA-239	VVA-239CK	0.001	-0.001	0.007
VVA-261	VVA-261CK	0.009	-0.003	-0.009
VVA-262	VVA-262CK	-0.002	-0.001	0.005
VVA-263	VVA-263CK	0.011	0.022	-0.008
VVA-264	VVA-264CK	0.001	0.003	-0.011
VVA-265	VVA-265CK	0.002	0.001	0.004
VVA-266	VVA-266CK	-0.004	0.004	-0.005
VVA-267	VVA-267CK	0.005	0.002	0.008
VVA-268	VVA-268CK	-0.008	0.004	0.021
VVA-269	VVA-269CK	0.002	0.001	-0.002
VVA-270	VVA-270CK	0.022	0.000	0.003
VVA-271	VVA-271CK	0.013	-0.004	0.041
VVA-272	VVA-272CK	0.013	-0.019	0.005
VVA-273	VVA-273CK	0.005	0.024	0.022
VVA-274	VVA-274CK	-0.003	-0.006	0.016

VVA-275	VVA-275CK	-0.002	0.005	0.010
VVA-276	VVA-276CK	0.002	-0.002	-0.012
VVA-277	VVA-277CK	0.014	0.004	0.031
VVA-278	VVA-278CK	-0.027	0.015	0.033
VVA-279	VVA-279CK	0.007	-0.015	0.025
VVA-280	VVA-280CK	-0.002	0.000	-0.005
VVA-281	VVA-281CK	0.004	0.004	0.011
VVA-282	VVA-282CK	-0.025	-0.017	-0.045
VVA-283	VVA-283CK	0.004	0.010	-0.030
VVA-284	VVA-284CK	-0.001	-0.003	-0.023
VVA-320	VVA-320CK	0.008	0.012	0.024
VVA-321	VVA-321CK	-0.016	0.017	0.020
VVA-322	VVA-322CK	0.002	-0.003	-0.013
VVA-323	VVA-323CK	-0.007	-0.003	-0.010
VVA-324	VVA-324CK	-0.002	-0.003	-0.005
VVA-331	VVA-331CK	0.002	0.005	-0.005
VVA-332	VVA-332CK	0.012	0.004	-0.014
VVA-333	VVA-333CK	-0.002	-0.015	-0.048
VVA-334	VVA-334CK	-0.009	-0.007	0.023

VVA-335	VVA-335CK	0.006	0.006	0.003
VVA-361	VVA-361CK	0.026	-0.002	-0.033
VVA-362	VVA-362CK	0.011	0.002	0.000
VVA-363	VVA-363CK	-0.003	-0.011	-0.032
VVA-364	VVA-364CK	-0.001	0.007	-0.003
VVA-365	VVA-365CK	-0.002	0.010	0.009
VVA-366	VVA-366CK	0.015	-0.010	-0.006
VVA-367	VVA-367CK	-0.007	0.015	-0.025
VVA-368	VVA-368CK	0.003	-0.002	0.000
VVA-377	VVA-377CK	0.000	0.001	0.028
VVA-378	VVA-378CK	0.003	0.003	0.028
VVA-379	VVA-379CK	-0.004	-0.001	0.005
VVA-380	VVA-380CK	-0.006	-0.002	-0.032
VVA-381	VVA-381CK	-0.001	-0.003	0.007
VVA-382	VVA-382CK	0.008	0.010	0.003



VVA-383	VVA-383CK	-0.004	0.005	-0.011
VVA-384	VVA-384CK	-0.003	0.000	0.016
VVA-385	VVA-385CK	-0.002	0.006	-0.033
VVA-386	VVA-386CK	0.000	0.005	0.007
VVA-387	VVA-387CK	-0.001	-0.005	0.010
VVA-388	VVA-388CK	0.006	0.005	-0.013
VVA-389	VVA-389CK	0.001	-0.007	-0.012
VVA-390	VVA-390CK	0.007	0.006	-0.011
VVA-391	VVA-391CK	0.006	0.004	0.003
VVA-392	VVA-392CK	0.004	0.004	0.000
VVA-393	VVA-393CK	-0.008	0.016	0.029
VVA-394	VVA-394CK	-0.005	-0.011	-0.007
VVA-395	VVA-395CK	-0.007	0.004	0.003
VVA-396	VVA-396CK	0.001	-0.001	-0.017
VVA-397	VVA-397CK	0.004	0.006	0.007
VVA-398	VVA-398CK	0.002	0.002	0.007
VVA-399	VVA-399CK	-0.012	0.005	-0.012
VVA-400	VVA-400CK	0.010	-0.004	0.001
VVA-401	VVA-401CK	-0.020	-0.038	-0.015
VVA-402	VVA-402CK	-0.023	0.005	-0.028
VVA-403	VVA-403CK	-0.006	0.007	0.006
VVA-404	VVA-404CK	0.004	0.030	0.015
VVA-410	VVA-410CK	0.006	0.003	-0.018
VVA-411	VVA-411CK	0.000	0.000	0.005
VVA-412	VVA-412CK	0.005	0.001	-0.006
VVA-413	VVA-413CK	0.016	0.018	-0.020
VVA-414	VVA-414CK	-0.002	-0.001	0.013
VVA-415	VVA-415CK	0.001	0.001	0.009
VVA-416	VVA-416CK	-0.005	-0.015	-0.025
VVA-417	VVA-417CK	-0.001	0.017	0.012
VVA-418	VVA-418CK	-0.005	0.013	0.020
VVA-419	VVA-419CK	0.000	0.006	-0.012
VVA-420	VVA-420CK	-0.004	0.006	-0.008
VVA-421	VVA-421CK	0.003	0.002	-0.007
VVA-422	VVA-422CK	-0.009	-0.002	0.001

VVA-423	VVA-423CK	0.000	0.000	-0.004
VVA-424	VVA-424CK	0.001	-0.010	-0.016
VVA-425	VVA-425CK	-0.006	0.004	0.003
VVA-426	VVA-426CK	0.000	0.002	0.002
VVA-427	VVA-427CK	0.008	-0.003	-0.010
VVA-428	VVA-428CK	-0.010	-0.001	0.011
VVA-429	VVA-429CK	0.001	0.000	0.017
VVA-430	VVA-430CK	0.001	0.005	-0.005
VVA-431	VVA-431CK	0.003	0.007	-0.007
VVA-432	VVA-432CK	-0.002	0.004	-0.019
VVA-433	VVA-433CK	-0.001	-0.007	0.000
VVA-434	VVA-434CK	0.003	-0.006	-0.002
VVA-435	VVA-435CK	-0.004	-0.009	0.000
VVA-436	VVA-436CK	0.003	-0.003	-0.001
VVA-437	VVA-437CK	-0.005	0.003	0.006
VVA-438	VVA-438CK	-0.007	0.002	0.015
VVA-439	VVA-439CK	-0.002	0.000	0.020
VVA-440	VVA-440CK	0.024	0.020	0.016
VVA-441	VVA-441CK	-0.001	0.002	0.010
VVA-442	VVA-442CK	-0.002	0.002	-0.003
VVA-443	VVA-443CK	0.001	-0.001	0.002
VVA-444	VVA-444CK	0.009	-0.009	-0.038
VVA-445	VVA-445CK	-0.006	0.009	0.016
VVA-446	VVA-446CK	-0.003	0.004	-0.018
VVA-447	VVA-447CK	0.012	-0.001	0.021
VVA-448	VVA-448CK	0.012	-0.004	-0.016
VVA-449	VVA-449CK	0.008	-0.001	-0.015