

Naval Facilities Engineering Command Southwest BRAC PMO West San Diego, CA

AIR MONITORING SUMMARY REPORT FEBRUARY 2 TO FEBRUARY 15, 2019

Remedial Action/Non-Time-Critical Removal Action Installation Restoration Site 12

FORMER NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CA

March 2019

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FORMER NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CA

Prepared for:



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LIST OF ABBREVIATIONS AND ACRONYMS

4,4'-DDD 4,4-dichlorodiphenyldichloroethane

AMP Air Monitoring Plan

BAAQMD Bay Area Air Quality Management District

BAP benzo(a)pyrene
cfm cubic feet per minute
CFR Code of Federal Regulations
DAC derived air concentration

DTSC Department of Toxic Substances Control HERO Human and Ecological Risk Office

Gilbane Gilbane Federal
DCP Dust Control Plan
IR Installation Restoration
mg/m³ milligram per cubic meter
Navy U.S. Department of the Navy
PAH polycyclic aromatic hydrocarbon

PCB polychlorinated biphenyl

PDR personal data-logging real-time aerosol monitor PM10 particulate matter less than 10 microns in diameter

PUF polyurethane foam

Ra-226 radium-226

TCDD 2,3,7,8-tetrachlorodibenzo-p-dioxin

TLV threshold limit value
TSP total suspended particulates

µg/m³ microgram per cubic meter

USEPA United States Environmental Protection Agency

Work Plan Final Work Plan, Remedial Action/Non-Time Critical Removal Action, Installation

Restoration Site 12, Former Naval Station Treasure Island, San Francisco, California

Air Monitoring Report Remedial Action/Non-Time-Critical Removal Action at IR Site 12 Former Naval Station Treasure Island, San Francisco, California

1.0 INTRODUCTION

This Air Monitoring Report was prepared by Gilbane Federal (Gilbane) as requested by the United States Department of the Navy (Navy) under the Radiological Multiple Award Contract (RADMAC II) N62473-12-D-D005, Contract Task Order F4239. Gilbane is performing dust and air monitoring at Former Naval Station Treasure Island in accordance with the Final Dust Control Plan (DCP) and Air Monitoring Plan (AMP), included as appendices to *Remedial Action/Non-Time Critical Removal Action Work Plan*, *Installation Restoration Site 12, Former Naval Station Treasure Island, San Francisco, California* (Work Plan; Gilbane, 2018).

The DCP describes best management practices and procedures to be implemented to minimize dust generation during work activities. Dust monitoring is conducted to ensure that these procedures are effective. Dust monitoring is also conducted to verify that the working environment meets occupational health and safety standards and that workers are safe. The AMP outlines the requirements for prevention of exposure for construction workers to dust and potential airborne chemicals of concern from the work area. The AMP also establishes the conservative project action levels for dust at the work area boundary to protect residents.

This summary report describes the following:

- Dust and air monitoring sampling locations **Section 2.0**;
- Dust and air monitoring sample collection and analytical methods **Section 3.0**;
- Dust and air monitoring data **Section 4.0**; and
- Dust and air monitoring results **Section 5.0**.

This summary report presents the dust and air monitoring test results at Installation Restoration (IR) Site 12 and/or IR Site 32 from February 2nd, 2019 through February 15th, 2019, and compares the results with the established action levels included in the Work Plan (Gilbane, 2018).

IR Site 32, located 600 yards to the east of IR Site 12, is being used as a radiological screening yard and staging yard for the IR Site 12 project activities. The screening criteria established for IR Site 12 will be applied to the air monitoring at IR Site 32.

During the reporting period, personal data-logging real-time aerosol monitoring (PDR) dust data was collected. Air samples were collected and analyzed for lead, chromium, polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), dioxin [2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)], total suspended particulates (TSP), and particulate matter less than 10 microns in diameter (PM10). In addition, air samples were analyzed for radiological gross alpha and beta levels.

2.0 MONITORING SITE LOCATIONS

2.1 Dust Monitoring

During earthmoving activities, multiple PDR stations are set up to monitor real-time airborne dust concentrations. The purpose of the PDR stations is to act as a first line of defense in protecting workers' health, and ultimately the public's health, during field activities. Dust levels are monitored at, and immediately adjacent to, the work area at the locations that will most likely contain the greatest volume of airborne dust. The objective of this dust monitoring approach is to demonstrate that dust levels are below action levels.

The general locations for dust monitors in IR Site 32 are shown on Figure 1, and the general locations for dust monitors for IR Site 12 are shown on Figure 2. Specific locations of each PDR are described in the individual PDR daily data files. Field forms from each location are presented in Attachment 1 of this report. During earth moving activities (i.e. transporting soil to radiological screening yard pads, managing radiological screening yard pads, etc.) at IR Site 32, one PDR serves as the upwind (background) location and two PDRs are placed in downwind perimeter locations. Correspondingly, during earth moving activities at IR Site 12 (i.e., transportation of backfill material, excavation, and backfilling), one PDR serves as the upwind (background) location and two PDRs are placed in downwind perimeter locations. Weather forecasts including wind direction are checked daily with a weather station located at Building 572.

2.2 Air Monitoring

Air monitoring samples were collected at the upwind Perimeter Road location and at the downwind location at the gate to Site 32. Air monitoring samples collected using high volume samplers are collected to identify and quantify airborne contaminants and to confirm the results recorded during dust (PDR) monitoring. Air monitoring stations are mobilized to collect air monitoring samples upwind and downwind of work areas. General locations of air monitoring stations are shown on Figure 3. The locations of the air monitoring stations are determined based on the prevailing wind direction (typically

from the northwest) and are modified as needed. A weather station is erected to monitor the wind direction.

High volume air monitoring stations remain stationary while sampling is being conducted; however, locations may be adjusted when the wind direction changes and when overall excavation work areas change from one site to another. Each upwind and downwind high volume monitoring station includes separate monitoring systems for the following:

- TSP- collected daily
- PM10- collected daily
- Lead and chromium- collected daily
- PAHs, PCBs, and Dioxins- collected on alternating days

2.3 Radiological Air Monitoring

Radiological air samplers are positioned adjacent to excavation work activities for radiologically impacted soil at one upwind and one downwind location during earthmoving activities associated with radiologically impacted soil. The radiological air samplers may be co-located with PDRs or the high-volume samplers.

3.0 SAMPLING AND ANALYTICAL METHODS

Dust and air samples are collected during earthmoving activities. However, during precipitation events, the dust and air monitoring units may not be operable. An attempt will be made to collect samples and readings regardless of the weather. If dust or air monitors are found to be malfunctioning or nonfunctional, earthmoving activities will stop until monitors can be repaired or replaced. The Site Health and Safety Officer is responsible for monitoring the air and dust monitoring sampling equipment. In rare cases, due to ancillary equipment malfunction such as generator failure during the night, a sample may be collected that represents a period of less than 24 hours. If this situation occurs, a note is added to the sample result data tables indicating why the full sampling period was not achieved.

3.1 Dust Samples

The PDR is a high sensitivity photometric monitor with a light-scattering sensing configuration that has been optimized for the measurement of the respirable fraction of airborne dust, smoke, fumes, and mists.

Air Monitoring Report Remedial Action/Non-Time-Critical Removal Action at IR Site 12 Former Naval Station Treasure Island, San Francisco, California

PDRs are used to evaluate real-time monitoring of airborne dust concentrations, to determine if there is a need for additional dust control or personal protection.

3.2 Air Samples

Air samples were sampled in accordance with the United States Environmental Protection Agency (USEPA) reference sampling method for PM10, described in 40 Code of Federal Regulations (CFR) 50, Subpart J. Each sample was collected on a filter over an approximately 24-hour period; the filter was then weighted to determine the amount of PM10 collected.

TSP samples were collected with a high-volume (39 to 60 cubic feet per minute [cfm]) air sampler in accordance with USEPA's reference sampling method for TSP, described in Title 40 CFR, Part 50, Subpart B. Each sample was collected on a filter over an approximately 24-hour period; the filter was then weighed to determine the amount of TSP collected. Once the filter weight was determined, the sample was analyzed for lead and chromium in accordance with USEPA Method 6020 using inductively coupled mass spectrometry.

Air samples for PCBs, PAHs, and dioxins are collected and analyzed in accordance with USEPA Methods TO-4A, TO-13, TO-9A, respectively, using TISH polyurethane (PUF) samplers. The filter media collected from the air samplers is submitted to the analytical laboratory for appropriate analysis.

PCB, PAH, and dioxin samples are collected on alternating days at the downwind and upwind stations during earthmoving activities.

3.3 Radiological Air Samples

Radiological air monitoring is also conducted upwind and downwind on days of earthmoving activities. Radiological samples are collected with a LV-1 low volume air sampler. Air filters are counted on site following a decay period and are compared with public air concentration limits published in 10 CFR Part 20. Radiological air sampling methods and procedures are detailed in Gilbane Radiological Procedure PR-RP-150 *Radiological Survey and Sampling*.

The radiological air sample is counted on a Low Background Protean WPC-9950 and analyzed for gross alpha and beta activity. The calculated airborne concentration in microcuries is then compared to the effluent concentration (often but incorrectly refer to as a derived air concentration [DAC] which applies only to occupational exposures) limit specified in Table 2 of Appendix B to 10 CFR 20. The effluent

concentration is the concentration of a given radionuclide in air which, if inhaled continuously over the course of a year, results in an exposure equal to the annual regulatory limit specified in 10 CFR 20.1302. The threshold for radiological effluent air monitoring samples is 10 percent of the effluent

concentration, which ensures work practices are evaluated and modified as necessary to ensure the limit

is not reached.

4.0 **DUST AND AIR MONITORING DATA**

The Human and Ecological Risk Office (HERO) at the request of the California Department of Toxic Substances Control (DTSC) developed dust action levels for community air monitoring for IR Site 12. Subchronic and chronic dust action levels as PM10 were calculated for lead, chromium, dioxin, benzo(a)pyrene (BAP), 4,4-dichlorodiphenyldichloroethane (4,4'-DDD) and PCBs. As presented in the document Dust Action Levels for Installation Restoration Site 12, Former Naval Station Treasure Island, San Francisco, California (HERO, 2018), the action levels were calculated using the maximum chemicals of concern soil concentrations at IR Site 12. As noted in Section 1.0, IR Site 12 action levels

will be implemented for project work at IR Site 32.

Based on HERO's recommendations, a PM10 dust action level of 50 microgram per cubic meter (ug/m³) will be implemented for all excavations areas at IR Site 12 except at the area surrounding sampling location KCH-1217-1 which will have a limit of 8 ug/m³ due to the elevated level of contaminants historically measured at this location. TSP is expected to be further controlled based on the limit employed for PM10, in accordance with guidance provided by the San Francisco Bay Area Air Quality Management District (BAAQMD), which estimates that PM10 makes up approximately 55 percent of TSP. If it is apparent that project activities are the cause of exceedances, additional control measures will be

Dust monitoring action levels that are implemented on a real-time basis are listed in Table 1. PDR data are collected and reviewed each day by the Site Health and Safety Manager. PDR data are included in

Attachment 1.

considered and implemented.

Analytical results from air monitoring samples are compared with the project screening criteria (threshold limit values [TLV]) listed in Table 2. Air monitoring results are included in Attachment 2. Radiological

5

monitoring results are included in Attachment 3.

Table 1
Dust Monitoring Project Action Levels

Method	Monitoring Location	Monitoring Frequency ^a	Action Level b	Action
PDR	Near Workers' Breathing Zones (typically on equipment)	Periodically ^c	<2.5 mg/m ³ >2.5 mg/m ³	Continue work. Use Level D and increase dust control (i.e., apply water or other suppression method). Optionally upgrade to Level C until concentrations are reduced.
	Job Site Perimeter	Continuously	<1.0 mg/m ³ >1.0 mg/m ³	Continue work. Increase dust control and re- evaluate. Stop work if levels do not decrease.

Notes:

Only the Health and Safety Manager is authorized to downgrade levels of personal protective equipment.

- a Frequency of air monitoring may be adjusted by the project Certified Industrial Hygienist after sufficient characterization of site contaminants has been completed, tasks have been modified, or site controls have proven effective.
- b Five readings exceeding the action level in any 15-minute period or a sustained reading exceeding the action level for five minutes will trigger a response. Action levels represent airborne particulate concentrations in excess of background particulate concentrations.
- c *PDR will be monitored a minimum of three times a day.*

< less than

> greater than

mg/m³ milligram per cubic meter

PDR personal data-logging real-time aerosol monitor

Table 2 Air Monitoring Project Screening Criteria

Chemicals of Concern	Project Screening Criteria (Threshold Limit Value) µg/m ³	Basis		
Lead	242	TI Site 12 Dust Action Level		
Chromium	929	TI Site 12 Dust Action Level		
TSP	50	TI Site 12 Dust Action Level		
PM10	50	BAAQMD ambient air quality		
BAP	50 (8) ^b	TI Site 12 Dust Action Level		
PCBsa	NA	TI Site 12 Dust Action Level		
4,4'-DDD	200	TI Site 12 Dust Action Level		
Dioxina	1E+07	TI Site 12 Dust Action Level		
Radiological (Ra-226)	10% of DAC ^c	Occupational and public air concentration limits for Ra-226 published in 10 Code of Federal Regulations Part 20.		

Notes:

c Public air concentration limits are commonly referred to as DAC, but are in actuality Effluent Concentrations from Table 2 for 10 CFR Part 20.

% percent

4,4'-DDD dichlorodiphenyldichloroethane

BAAQMD Bay Area Air Quality Management District

BAP benzo(a)pyrene

DAC derived air concentration
PCBs polychlorinated biphenyls

PM10 particulate matter smaller than 10 microns in diameter

Ra-226 radium-226

TSP total suspended particulates $\mu g/m^3$ microgram per cubic meter

a The dust action level was increased by a factor of 10 to account for the short-term duration of the project relative to the lifetime assumptions incorporated into the toxicity criteria and exposure assumption.

BAP action levels will be 50 μ g/m³ for all excavations except for the area surrounding sample locations KCH-1217-1 at which it will be 8 μ g/m³

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5.0 AIR MONITORING RESULTS

If dust (PDR) monitoring equipment alarm, the source of exceedance will be determined by evaluating

both upwind and downwind dust (PDR) sample locations. If the difference between upwind and

downwind concentrations is greater than the action level for a sustained period of 15 minutes, then

earthmoving activities will be halted until dust control measures are implemented. These may include,

but are not limited to adding water to the work area during earth moving tasks, evaluation of alternate

work procedures or equipment, and/or cessation of the activity that is creating the dust until the PDR

readings are below the screening criteria.

PDR summary results are presented in Attachment 1. Weather information (including ambient pressure

and temperature data) and high volume air monitoring sample results are presented in Attachment 2.

Weather information was collected from the weather station at Building 572, Avenue M, Treasure Island,

San Francisco, California. Radiological air monitoring results are presented in Attachment 3.

PM10 analytical results from February 2, 2019 to February 15, 2019 did not exceed the project-specific

screening criteria presented in Table 2.

TSP analytical results from February 2, 2019 to February 15, 2019 did not exceed the project-specific

screening criteria presented in Table 2.

Metals (chromium and lead), PAHs, total PCBs, and dioxin analytical results from February 2, 2019 to

February 15, 2019 did not exceed the project-specific screening criteria presented in Table 2.

Dust (PDR) delta action levels did not exceed during the reporting period. The data sheets are found in

Attachment 1.

Radiological air monitoring action levels were not exceeded during the reporting period.

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6.0 REFERENCES

Gilbane, 2016. Radiological Procedure PR-RP-150 Radiological Survey and Sampling. January.

Gilbane, 2018. Remedial Action/Non-Time Critical Removal Action Work Plan, Installation Restoration Site 12, Former Naval Station Treasure Island, San Francisco, California. September.

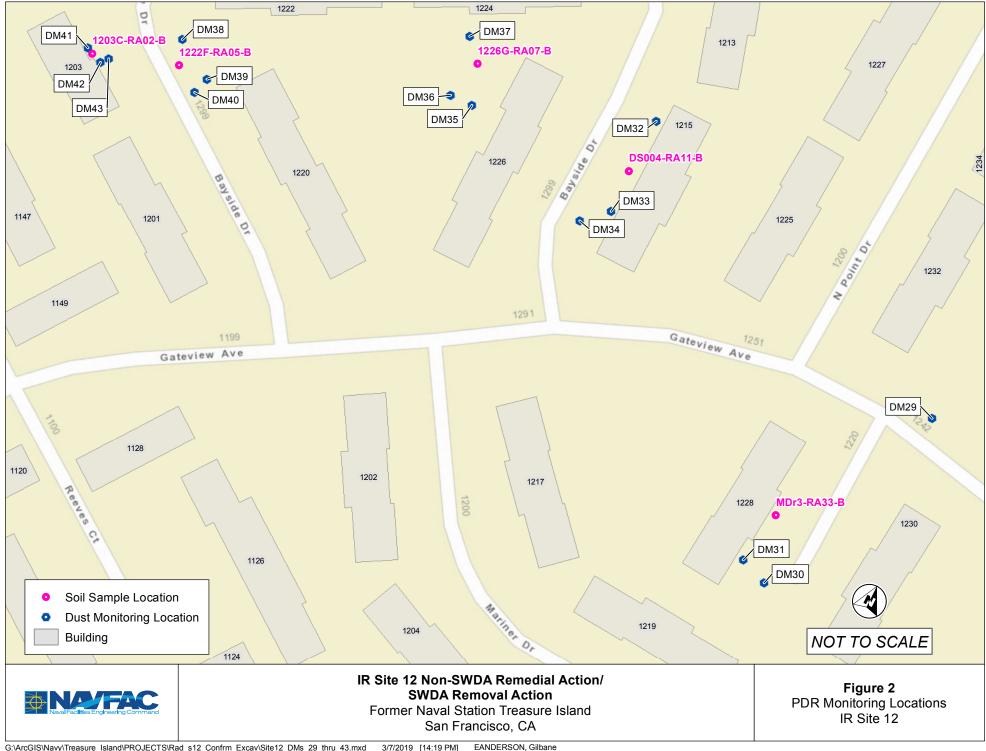
Gilbane, 2018. Remedial Action/Non-Time Critical Removal Action Work Plan, Air Monitoring Report, Installation Restoration Site 12, Former Naval Station Treasure Island, San Francisco, California. September.

Gilbane, 2018. Remedial Action/Non-Time Critical Removal Action Work Plan, Dust Control Plan, Installation Restoration Site 12, Former Naval Station Treasure Island, San Francisco, California. September.

HERO, 2018. Dust Action Levels for Installation Restoration Site 12, Former Naval Station Treasure Island, San Francisco, California. September.

FIGURES







ATTACHMENTS

ATTACHMENT 1 PDR SUMMARY TABLE AND FIELD FORMS

Table 1-1 Personal Data-logging Real-time (PDR) Aerosol Monitoring Results Remedial Action/NTCRA IR Site 12



Former Naval Station Treasure Island, San Francisco, California

DustTrak Unit	IR Site	Date	Maximum (mg/m³)	Average (mg/m³)	Delta Between Upwind and Downwind stations (mg/m³)	Below action level? (0.050 mg/m³) (Yes/No)
DM1	Site 32		0.006	0.005	NA	NA
DM2	Site 32		0.012	0.011	0.006	Yes
DM3	Site 32	2/4/2019	0.007	0.006	0.001	Yes
DM29	Site 12	2/4/2019	0.004	0.004	NA	NA
DM30	Site 12		0.006	0.005	0.001	Yes
DM31	Site 12		0.007	0.005	0.001	Yes
DM1	Site 32		0.007	0.003	NA	NA
DM2	Site 32		0.006	0.005	0.002	Yes
DM3	Site 32	2/5/2019	0.004	0.003	0.000	Yes
DM32	Site 12	2/5/2019	0.006	0.003	NA	NA
DM33	Site 12		0.025	0.011	0.008	Yes
DM34	Site 12		0.006	0.004	0.001	Yes
DM1	Site 32		0.012	0.007	NA	NA
DM2	Site 32	1	0.009	0.007	0.000	Yes
DM3	Site 32	0/0/0040	0.007	0.006	-0.001	Yes
DM35	Site 12	2/6/2019	0.013	0.006	NA	NA
DM36	Site 12		0.012	0.004	-0.002	Yes
DM37	Site 12		0.013	0.008	0.002	Yes
DM1	Site 32		0.019	0.016	NA	NA
DM2	Site 32	2/7/2019	0.021	0.014	-0.002	Yes
DM3	Site 32		0.024	0.017	0.001	Yes
DM1	Site 32		0.012	0.008	NA	NA
DM2	Site 32		0.012	0.010	0.002	Yes
DM3	Site 32	0/4//00/0	0.010	0.008	0.000	Yes
DM38	Site 12	2/11/2019	0.015	0.010	NA	NA
DM39	Site 12		0.008	0.005	-0.005	Yes
DM40	Site 12		0.008	0.004	-0.006	Yes
DM1	Site 32		0.026	0.018	NA	NA
DM2	Site 32		0.017	0.012	-0.006	Yes
DM3	Site 32		0.018	0.013	-0.005	Yes
DM41	Site 12	2/12/2019	0.016	0.013	NA	NA NA
DM42	Site 12		0.014	0.010	-0.003	Yes
DM43	Site 12		0.017	0.013	0.000	Yes

Notes:

bold = results above screening criteria mg/m³ = milligram per cubic meter

NA = not applicable



DUST MONITORING LOG

Client Name _ NAVFAC	Date_ 2 / 4 / 19
Project No. <u>J310000300</u>	Page of
Logged by Mike Cox	<u> </u>
Weather Cloudy 50°	
Instrument Type: _Dust Trak II	
Calibration Standards Used: Factory calibrated	

	Instrument Readings, (Units) Serial worker							
Time	Location	mg/m ³			, , , , , , , ,		- PPE Used_	Activities, Remarks
۸٦٥٥	1011	B DOLL					17,11	
0723	DMI	6.004					2114	no earth moving activities
6733		0,010		162	2/4/19		3703	
0746		0.007			MDr-	3	2724	٩/
0814		0,004	exc	avatio	MOR	20	1649	UP Wind
08 16	Dm 30	0.004	exce	Luation	H7 10	2/4/	2368	Down wind
0818	DM31	0,004	exca	vation			3204	Down wind
1037	DMI	0.006			MDr	-3	2714	No earth activities
1043	DMZ	0.012					3763	
1045	DM3	0.006					2724	4
1052	DM 29	0.003					1649	
1054	DM30	0.006					2368	
1056	DM31	0.007					3204	
1239	DM1	0.004	-				2714	Began excavation at MDR-3
1244	DM2	0.010					3703	
1246	DM 3	0.006					2724	
1252	DM 29	0,003					1649	
1254	DM 30	0.006					2368	
1255	DM 31	0,005					3204	1
3:49	DM I	0.004					2714	backfill excavation MDR-3
3:55	A 4	0.010					3763	1
3:57	DM3	0.006					2724	
3:59	DM29	0.604					1.649	Bockfill w/clean Material complete
4:07	DM 30	0.005					2368	No earth moving activities
4:11	DM31	0.604					3204	



Client Name NAVFAC		- ^^!//
Project No. 5310000300	Logged by	Mike Cox
Date 2/5/19		
Page of		
Weather Clear 41°		<u> </u>
Instrument Towns		

Instrument Type: _____ Dust Trak II
Calibration Standards Used ____ Factory calibrated

Calibration	n Standards U	sed factory cali	brated		
Time	Dust Monitoring Station Number	Location	Instrument Reading (mg/m3)	Unit Number	Activities, Remarks
7:28	DM I		0.002	3703	No earth moving
7:37	DM2	243	0.005	2724	1
7:40	DM3		0.003	2714	1
8:45	DM32	UP Wind at excavation D5004	0.006	3204	No earth moving
8:49	DM33	DOWN Wingle at execution PSOOY	0,008	2368	3
8:51	DM 34	DOWN Wind at execution	0.006	1649	1
10:41	DMI	780	0.007	3703	No earth moving
10:45	DM Z		0.006	2724	
10:47	DM 3		0.004	2714	√
10:51	DM32		0.003	3204	Excavation at DS004 Began
10:54	DM 33		0.006	2368	ı
10:56	DM34		0.004	1649	
12:25	DM32		0.002	3204	
12:26	DM33		0.006	2368	
12:27	DM34		0.003	1649	
12:59	DMI		0.001	3703	
1:03	DM2		0.003	2724	
1:05	DM3		0.002	2714	V
3:19	DM32		0.001	3204	Backsill w/cleansoil
3'.21	DM37	DM33	0.025	2368	
3:23		DM34	0-001	1649	No earth moving
	KST 2-1	14-19			,



Client Name NAVFAC	Date _	2/6/19	
Project No. J310000300	_ Page	of	
Logged by Kinkelin 5			
Weather Sunny 44°			

Instrument Type: Dust Trak II

Calibration Standards Used Factory Calibrated

Calibration	n Standards U	sed Factory Calibrated			1975
Time	Dust Monitoring Station Number	Location	Instrument Reading (mg/m3)	Unit Number	Activities, Remarks
7:32	DMI	WSite32	0,008	3703	No earth moving
7:38	DM2	DWSite32	0.003	2714	activities
7:42	DM3	DWSI632	0.604	3204	
8:07	DM35	Down wind at excustion	0.003	1649	
8:08	DM 36	Down wind at excavation 51+E11-1226	0.005	2368	
8:10	ISM 37	up wind at excavation site 12 - 12266	0.004	2724	
10:22	DM 35		0.013	1649	Excavation at 12266
10:24	DM 36		0.012	2368	
10:26	DM 37		0.013	2724	4
1040	DMI		0.012		offloading soil @ Site 32
	DNZ		0.009		
4	D43		0.007		V
1300	DM		2,005		
# 1	DM 2		900.0		
	bM3		170.0		
1320	DM35		200.0		
	DM36		0.002		
1	DM37	1	0.009		
1700	Dm35	Down wild SHELZ	0.006		Bachfill 12246
	Dm 36	Pownwind Site 12	0.001		1850 B
1	Dm37	Upwind Site 12	0.005		
1930	DM35		0.004		
	Dm 36		0.001		
1	Dm37		0.007		

2000 stopped buchfilling 1226G.

stopped excavaling



Client Name NAVFAC		Date 2/7/19
Project No. <u>J310000300</u>		Page of
Logged by Mike Cox		
Weather Sunny	45'	
Instrument Type: Dust Trak II		

Calibration Standards Used Factory Calibrated

Calibratio	n Standards U	Jsed <u>Factory Calibrate</u>	d		
Time	Dust Monitoring Station Number	Location	Instrument Reading (mg/m3)	Unit Number	Activities, Remarks
8:01	DM I	Up wind at 32	0.019	2368	No earth moing
8:09	DM2	Down wind at site	0.021	3204	activities J
8:15	DM3	Down wind at site	0.024	2724	1
10:44	DMI		0.014	2368	No excavations we taking
10:52	DM2		0.012	3204	=
10:55	DM3		0.013	2724	Activities on going north of Gilbane compa From other contractors
2.50	DMI		0.014	2368	From other contraders.
2:57	DM2		0,009	3204	
3:00	DM3		0.015	2724	1 2000
			0.0		
······································					2025 : HKILES
				9	
	1		2.00		



Client Name NAVFAC	Date 7/11/19
Project No. <u>J310000300</u>	of
Logged by Mike Cox	_
Weather Sungy 44°	
Instrument Type: Dust Trak II	

Calibration Standards Used Factory Calibrated

Time	Dust Monitoring Station Number	Location	Instrument Reading (mg/m3)	Unit Number	Activities, Remarks
7:25	DMI	Up wind at site	0.012	3204	No earth moving action
7:33	DM2	Down wind Site 32	0.012	2368	1
7:37	DM3	Down wind Site 32	0.010	2724	Activities organy New College
10:06	DM 38	UP wind excaustion	0.015	3703	Pre-excavation reading
10:07	DM 39	Down wind excountion	0.008	1649	
10:08	омчо	Down wind execution	0.008	2714	
10:15	DMI		0.009		
10:19	DM2		0.009		1
10:21	DM3		0;009		+
12:15	DM38		0.006		Earth moving activities on going
12:16	DM39		0.003		
12:17	DM40	8	0.003		
1:25	DM I		0.004		
1:27	DM 2		0.009		
1:29	DM3		0.004		V
3:15	DM38		0.009		Backfill of clean soil
3:16	DM39		0.004		1
3:17	DM40		0.003		*
4:33	DM 38		0.009		Backfillelean
4:35	DM39		0-003		Soil complete
4:36	DM40		0.003		1



Client Name NAVFAC	Date2/12/19
Project No. <u>J310000300</u>	of
Logged by Mike Cox	-
Weather Cloudy	
Instrument Type: Dust Trak II	

Calibration Standards Used Factory Calibrated

Calibration	n Standards U Dust	Jsed <u>Factory Calibrated</u>			
Time	Monitoring Station Number	Location	Instrument Reading (mg/m3)	Unit Number	Activities, Remarks
7:24	DMI	Up wind site 32	0.015	3703	No earth moving actionie
7:30	DM2	Down wind site 32	0.004	3204	
7:36	DM3	Downwind site 32	0.006	2368	*
9:04	DM41	Up wind excavition	0.008	8744 MC	1649 Excalation
9:05	DM42	Down wind excaution	0.007	2714	
9:10	DM43	Down wind exception 12630	0.010	2724	
10:24	DM		0.013	3703	Activities taking a lace No failban Compound
16:28	DM2		0.011	3204	Compound Alana Aug M
16:31	DM3		0.011	2368	
11:14	DMYI		0.016	1649	
11:16	DM42		0.009	2714	
11:17	DM43		0.012	2724	V
1:13	DMUI		0.016	1649	Backfill u/clan full
1:15	DM42		0.014	2714	
1:16	DM43		0.017	2724	
1:31	DMI		0.026	3703	
1:36	DM2		0.017	3204	
1138	DM3		0.018	2368	
3:50	DMI		0.018	3703	
3:57	pmz		0.016	3204	
4:00	DM3		0.018	2368	

ATTACHMENT 2 SUMMARY OF AIR MONITORING AND AIR SAMPLING RESULTS

Table 2-1 Ambient Pressure and Temperature Monitoring Results Remedial Action/NTCRA IR Site 12 Former Naval Station Treasure Island, San Francisco, California



Ambient Pressure (inches Ambient Temperature (°K) of Hg) **Ambient Temperature (°F) Sample Date** 2/5/2019 46.00 29.84 280.93 2/6/2019 30.17 44.89 280.31 2/7/2019 30.39 47.64 281.84 2/8/2019 30.42 48.47 282.30 2/12/2019 30.36 46.70 281.32 2/13/2019 30.08 48.51 282.32 54.36 2/14/2019 29.72 285.57 2/15/2019 29.84 53.08 284.86

Notes:

Weather data collected from weather station at Building 572, Avenue M, Treasure Island, San Francisco, CA

°F = Degrees Fahrenheit

Hg = mercury

°K = Degrees Kelvin

Table 2-2 Particulate Matter Smaller than Ten Microns (PM10) Remedial Action/NTCRA IR Site 12 Former Naval Station Treasure Island, San Francisco, California



Location ID	Sampling Period (Hours)	Sample Date	Particulate Matter Less Than 10 Microns in Diameter (ug/m³)	Delta between Downwind and Upwind Stations (ug/m³)	PM10 Exceedance? (Yes/No)
				Screening Criteria	50
AMS01	25.14	02/05/2019	8.6	NA	NA
	24.23	02/06/2019	10	NA	NA
	25.04	02/07/2019	11	NA	NA
	23.30	02/08/2019	14	NA	NA
	24.57	02/12/2019	8.3	NA	NA
	25.10	02/13/2019	17	NA	NA
	24.61	02/14/2019	1.4	NA	NA
	23.23	02/15/2019	1.3	NA	NA
AMS02	24.03	02/05/2019	12	3.4	No
	23.32	02/06/2019	12	2	No
	23.93	02/07/2019	13	2	No
	22.28	02/08/2019	18	4	No
	23.45	02/12/2019	5	-3.3	No
	22.53	02/13/2019	16	-1	No
	23.50	02/14/2019	3.2	1.8	No
	22.13	02/15/2019	5.9	4.6	No
AMS03	23.39	02/05/2019	12	NA	NA
AMS05	22.09	02/06/2019	6.4	NA	NA
	24.32	02/07/2019	15	NA	NA
	24.30	02/12/2019	15	NA	NA
	23.57	02/13/2019	11	NA	NA
AMS06	23.66	02/05/2019	12	0	No
AMS08	22.08	02/06/2019	8.4	2	No
	23.85	02/07/2019	13	-2	No
AMS10	22.10	02/12/2019	13	-2	No
	24.02	02/13/2019	15	4	No

Notes:

NA = not applicable

PM10 = particulate matter less then 10 microns in diameter

ug/m3 = microgram per cubic meter

Table 2-3 Total Suspended Particulates Monitoring Results Remedial Action/NTCRA IR Site 12 Former Naval Station Treasure Island, San Francisco, California



Location ID	Sampling Period (Hours)	Sample Date	Total Suspended Particulate (ug/m³)	Delta Between Downwind and Upwind Stations (ug/m³)	TSP Exceedance? (Yes/No)
				Screening Criteria	50
AMS01	25.10	2/5/2019	8.99	NA	NA
	24.18	2/6/2019	7.71	NA	NA
	25.03	2/7/2019	15.47	NA	NA
	23.32	2/8/2019	22.09	NA	NA
	24.46	2/12/2019	14.94	NA	NA
	25.16	2/13/2019	31.15	NA	NA
	24.45	2/14/2019	15.06	NA	NA
	23.24	2/15/2019	19.94	NA	NA
AMS02	24.03	2/5/2019	15.41	6.4	No
	23.30	2/6/2019	12.89	5.2	No
	23.98	2/7/2019	23.42	8.0	No
	22.23	2/8/2019	32.93	10.8	No
	23.42	2/12/2019	22.77	7.8	No
	22.50	2/13/2019	27.60	-3.6	No
	23.43	2/14/2019	14.70	-0.4	No
	22.13	2/15/2019	17.46	-2.5	No
AMS03	23.36	2/5/2019	18.98	NA	NA
AMS05	22.16	2/6/2019	10.36	NA	NA
	24.40	2/7/2019	27.07	NA	NA
	24.23	2/12/2019	25.01	NA	NA
	23.58	2/13/2019	30.72	NA	NA
AMS06	23.66	2/5/2019	18.39	-0.59	No
AMS08	22.18	02/06/2019	12.38	2.02	No
	23.87	02/07/2019	19.82	-7.24	No
AMS10	22.05	02/12/2019	22.58	-2.43	No
	23.97	02/13/2019	37.33	6.60	No

Notes:

NA = not applicable

TSP = total suspended particulate

bold = results above screening criteria

Table 2-4 Metals by EPA 6020 Monitoring Results Remedial Action/NTCRA IR Site 12 Former Naval Station Treasure Island, San Francisco, California



Location ID	Sampling Period (Hours)	Sample Date	Lead (ug/m³)	Lead Exceedance? (Yes/No)	Chromium (ug/m³)	Chromium Exceedance? (Yes/No)
Screening Crite	eria			242		929
AMS01	25.14	2/5/2019	0.0017	No	0.0038	No
	24.23	2/6/2019	0.0013	No	0.0042	No
	25.04	2/7/2019	0.0022	No	0.0019	No
	23.30	2/8/2019	0.0036	No	0.002	No
	24.57	2/12/2019	0.002	No	0.0019	No
	25.10	2/13/2019	0.0022	No	0.0049	No
	24.61	2/14/2019	0.00055	No	0.0041	No
	23.23	2/15/2019	0.00074	No	0.0042	No
AMS02	24.03	02/05/2019	0.0016	No	0.004	No
	23.32	02/06/2019	0.00098	No	0.0044	No
	23.93	02/07/2019	0.0025	No	0.0022	No
	22.28	02/08/2019	0.0043	No	0.0021	No
	23.45	02/12/2019	0.0081	No	0.0047	No
	22.53	02/13/2019	0.0021	No	0.0049	No
	23.50	02/14/2019	0.0006	No	0.0044	No
	22.13	02/15/2019	0.0008	No	0.0045	No
AMS03	23.39	02/05/2019	0.0014	No	0.0042	No
AMS05	22.09	02/06/2019	0.0012	No	0.0017	No
	24.32	02/07/2019	0.0033	No	0.0021	No
	24.30	02/12/2019	0.0027	No	0.0048	No
	23.57	02/13/2019	0.0016	No	0.0046	No
AMS06	23.66	02/05/2019	0.0018	No	0.0046	No
AMS08	22.08	02/06/2019	0.0012	No	0.0018	No
	23.85	02/07/2019	0.002	No	0.0019	No
AMS10	22.10	2/12/2019	0.0026	No	0.0049	No
	24.02	2/13/2019	0.0022	No	0.005	No

Notes:

ug/m³ = microgram per cubic meter

Table 2-5 Polycyclic Aromatic Hydrocarbons by TO-13 Monitoring Results Remedial Action/NTCRA IR Site 12 Former Naval Station Treasure Island, San Francisco, California



Location ID	Sampling Period (Hours)	Sample Date	BAP(Eq) Exceed- ance?	BAP (Eq)	2-Methyl- naph- thalene	Acenaph- thene (ug/m³)	Acenaph- thylene (ug/m³)	Anthra- cene (ug/m³)	Benzo(a) anthra- cene	Benzo(a) pyrene (ug/m³)	Benzo(b) fluoran- thene	Benzo(g,h,i) perylene (ug/m³)	Benzo(k) fluoran- thene	Chrysene (ug/m³)	Dibenz(a,h) anthra-cene (ug/m³)	Fluoran- thene (ug/m3)	Fluorene (ug/m3)	Indeno (1,2,3-c,d) pyrene	Naph- thalene (ug/m3)	Phenan- threne (ug/m3)	Pyrene (ug/m3)
			(Yes/No)		(ug/m³)				(ug/m³)		(ug/m³)		(ug/m³)					(ug/m3)			
	Screenir	ng Criteria ¹		50	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
AMS01	24.97	02/07/2019	No	0	0.049	0.0024 J	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	0.0038	< 0.0038	0.083	0.0049	< 0.0038
	2.42*	02/13/2019	No	0	< 0.0093	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	< 0.0047	0.0086 J	< 0.0047	< 0.0047
AMS02	23.88	02/07/2019	No	0	0.054	0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	< 0.0035	0.0017 J	0.0052	< 0.0035	0.1	0.0091	0.0024 J
	23.78	02/13/2019	No	0	0.0052	0.00041 J	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	< 0.00045	0.00021 J	0.00063	< 0.00045	0.011	0.0013	0.00024 J
AMS05	24.24	02/07/2019	No	0	0.042	0.0036	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	< 0.0033	0.0018 J	0.0067	< 0.0033	0.089	0.013	0.0015 J
	23.61	02/13/2019	No	0	0.0033	0.00026 J	< 0.00035	< 0.00035	< 0.00035	< 0.00035	< 0.00035	< 0.00035	< 0.00035	< 0.00035	< 0.00035	0.00017 J	0.00046	< 0.00035	0.0067	0.00091	0.00015 J
AMS08	23.87	02/07/2019	No	0	0.066	0.0034 J	0.0037 J	< 0.0039	< 0.0039	< 0.0039	< 0.0039	< 0.0039	< 0.0039	< 0.0039	< 0.0039	0.0024 J	0.0049	< 0.0039	0.19	0.0097	0.0029 J
AMS10	7.11 *	02/13/2019	No	0	0.0046	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.012	0.00064 J	< 0.0012

Notes:

¹ The screening criteria for BAP(Eq) is 50 ug/m³ except for the area surrounding excavation KCH-1217-1 at which it will be 8 ug/m³. NE = Not established

TE = Not obtablished

BAP(Eq) = Benzo(a) pyrene equivalency

J = estimated value

< = nondetected less than associated reporting limit

* = PUF sampler malfunction

Table 2-6
Polychlorinated Biphenyls by TO-4A Monitoring Results
Remedial Action/NTCRA IR Site 12
Former Naval Station Treasure Island, San Francisco, California



Location ID	Sampling Period (Hours)	Sample Date	Total PCB Exceedance? (Yes/No)	Total PCB	PCB-1016 (Aroclor 1016) (ug/m³)	PCB-1221 (Aroclor 1221) (ug/m³)	PCB-1232 (Aroclor 1232) (ug/m³)	PCB-1242 (Aroclor 1242) (ug/m³)	PCB-1248 (Aroclor 1248) (ug/m³)	PCB-1254 (Aroclor 1254) (ug/m³)	PCB-1260 (Aroclor 1260) (ug/m³)
Screening Cri	teria			NE							
AMS01	24.24	02/06/2019	NA	0	< 0.00052	< 0.00052	< 0.00052	< 0.00052	< 0.00052	< 0.00052	< 0.00052
	24.51	02/12/2019	NA	0	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063
	23.13	02/15/2019	NA	0	< 0.00068	< 0.00068	< 0.00068	< 0.00068	< 0.00068	< 0.00068	< 0.00068
AMS02	23.21	02/06/2019	NA	0	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053	< 0.00053
	23.49	02/12/2019	NA	0	< 0.00068	< 0.00068	< 0.00068	< 0.00068	< 0.00068	< 0.00068	< 0.00068
	22.05	02/15/2019	NA	0	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063
AMS05	21.63	02/06/2019	NA	0	< 0.00056	< 0.00056	< 0.00056	< 0.00056	< 0.00056	< 0.00056	< 0.00056
	24.25	02/12/2019	NA	0	< 0.00048	< 0.00048	< 0.00048	< 0.00048	< 0.00048	< 0.00048	< 0.00048
AMS08	22.21	02/06/2019	NA	0	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063
AMS10	22.13	02/12/2019	NA	0	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059

Notes:

NA = Not applicable

NE = none established

PCB = polychlorinated biphenyl

ug/m³ = microgram per cubic meter

< = nondetected less than associated reporting limit

Table 2-7 Dioxin as 2,3,4,7,8-TCDD by TO-9A Monitoring Results Remedial Action/NTCRA IR Site 12 Former Naval Station Treasure Island, San Francisco, California



Location ID	Sampling Period (Hours)	Sample Date	2,3,7,8-Tetrachlorodibenzo-p-dioxin (ug/m³)	Dioxin Exceedance? (Yes/No)
	•		Screening Criteria	10,000,000
AMS01	25.07	02/05/2019	< 0.00000014	No
	23.24	02/08/2019	< 0.00000015	No
	24.53	02/14/2019	< 0.00000019	No
AMS02	22.03	02/05/2019	< 0.00000015	No
	22.18	02/08/2019	< 0.00000014	No
	23.51	02/14/2019	< 0.00000018	No
AMS03	23.32	02/05/2019	< 0.00000012	No
AMS06	23.69	02/05/2019	< 0.00000015	No

Notes:

ug/m³ = microgram per cubic meter

< = nondetected less than associated reporting limit

ATTACHMENT 3 RADIOLOGICAL AIR MONITORING RESULTS



AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

Column Part																AIR GAINI LE REGGETO - I OBEIG ERI GGORE MICHTORING								
No. Part Poliment Mark Poliment Mark Poliment Polime	Project Information										Effluent Air Concentration				•			Color Codes						
Sample Semple Semple Count Information effective as c6 37/2019 Semple Semple Semp					•						'		· ·											
Sample S	1						10000300							1 '										
Sample Sample Sample Location No No No Court Time Court Time Court Court Time Court Co															· · · · · · · · · · · · · · · · · · ·						Value			
Number Type Location No Pate (pm) Day Time	Sample Collection															on			<u> </u>					
RS-110 Perimeter AMS-01 PEO1 60 24/19 6.00 24/19 6.00 620 37E-07 A 21/119 20 cpm 0.100 4.900 0.3 9.2 4.2E-15 1.3E-13 0.8% 2.2% BS CB AS-119 Perimeter AMS-02 PEO2 60 24/19 6.10 24/19 6.00 620 37E-07 A 21/119 20 cpm 0.300 3.650 0.3 4.50 0.4 6.9 5.2E-15 3.E-14 1.1E-13 3.8% 1.4% BS CB AS-119 Perimeter AMS-03 PEO3 60 24/19 7.30 24/19 16/15 50 3.E-07 A 21/119 20 cpm 0.300 3.650 0.9 7.5 1.2E-14 1.1E-13 3.8% 1.4% BS CB AS-120 Perimeter EXEMBER 3 PEO3 60 24/19 16/30 3.2E-07 A 21/119 20 cpm 0.150 4.500 0.4 9.8 6.0E-15 1.4E-13 3.7% 2.3% BS CB AS-121 Perimeter EXEMBER 3 PEO3 60 24/19 16/30 3.0E-07 A 21/119 20 cpm 0.150 3.550 0.4 7.2 8.8E-15 1.8E-13 1.18 2.7% BS CB AS-122 Perimeter AMS-04 PEO1 50 24/19 16/30 50 50 50 50 50 7.4 21/119 20 cpm 0.050 3.300 0.1 6.5 22.E-15 9.E-14 0.4% 1.5% BS CB AS-122 Perimeter AMS-04 Perimeter AMS-05 PEO3 50 25/19 6.00 25/19 6.00 50 50 50 3.6E-07 A 21/119 20 cpm 0.050 3.300 0.1 6.5 22.E-15 9.E-14 0.4% 1.5% 1	Sample	Sample	Sample	Equip	Ave Flow	Start	End	Elapsed	Volume	Inst	Count	Time	Counting	Gross	Activity	Net	dpm	Activity	(µCi/ml)	Effluent	Conc (%)	Count	Data	
AS-119 Perimeter AMS-02 PE02 60 24/19/19 610 520 3/15-07 A 21/119 20 cpm 0.150 3/450 0.4 6.9 5.25-15 8.45-14 0.6% 1.48% 8S C8 AS-120 Perimeter AMS-03 PE04 60 24/19/19 61/15 540 3.25-07 A 21/119 20 cpm 0.150 4.500 0.4 9.8 6.05-15 1.48-14 1.18-13 1.4% 1.8% 6S C8 AS-120 Perimeter AMS-03 PE04 60 24/19/15 24/19/16/15 540 3.25-07 A 21/119 20 cpm 0.150 4.500 0.4 9.8 6.05-15 1.48-13 0.7% 2.3% 8S C8 AS-120 Perimeter AMS-03 PE05 60 24/19/16/5 540 3.25-07 A 21/119 20 cpm 0.150 3.500 0.4 7.2 9.88-15 1.88-13 1.1% 2.7% 8S C8 AS-122 Perimeter AMS-04 PE07 60 25/19/66/5 56/19/67/65/5 600 3.05-07 A 21/119 20 cpm 0.150 3.500 0.4 7.2 9.88-15 1.88-13 1.1% 2.7% 8S C8 AS-122 Perimeter AMS-02 PE02 60 25/19/66/5 56/19/67/65/5 600 3.05-07 A 21/119 20 cpm 0.050 3.300 0.1 6.5 2.27-15 88-14 0.4% 1.5% 8S C8 C8 AS-124 Perimeter AMS-02 PE02 60 25/19/66/5 56/19/67/65/5 600 3.05-07 A 21/119 20 cpm 0.050 3.00 0.1 6.2 2.27-15 3.88-15 6.05-16 6.05-1		Туре		_	Rate (lpm)	1		<u> </u>	<u> </u>	No	_	(min)	Units	•				_		_		Tech	Reviewer	
AS-120 Penimeter AMS-08 PE03 60 24/19/7:30 24/19/15/15/15/15/15/15/15/15/15/15/15/15/15/	AS-117		AMS-01		50	2/4/19 6:00	 	1		Α	 	20	cpm			0.3	9.2					BS	CB	
AS-120 Perimeter AMS-06 PE04 80 24/19715 24/1916:15 540 3.2E-07 A 21/119 20 cpm 0.150 4.500 0.4 9.8 6.0E-15 1.4E-13 0.7% 2.3% 6.S C.B AS-121 Perimeter EX.# NDR-3 PE05 60 24/1916:00 330 2.0E-07 A 21/119 20 cpm 0.150 3.550 0.4 7.2 9.8E-15 1.6E-13 1.1% 2.7% 8.S C.B AS-122 Perimeter AMS-01 PE01 50 2.55/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.650 2.56/19.655 2.56/19.650 2.56/19.655 2.56/19.65/19.656 2.56/19.655 2.56/19.656 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/19.655 2.56/	AS-118	Perimeter	AMS-02		60	2/4/19 6:10	2/4/19 16:30	+	3.7E+07	Α	2/11/19	20	cpm	0.150		0.4	6.9	5.2E-15	8.4E-14	0.6%	1.4%	BS	CB	
AS-121 Perimeter AS-122 Perimeter AS-122 Perimeter AMS-01 PE01 50	AS-119	Perimeter	AMS-03	PE03	60	2/4/19 7:30	2/4/19 16:10	520	3.1E+07	Α	2/11/19	20	cpm	0.300	3.650	0.9	7.5	1.2E-14	1.1E-13	1.4%	1.8%	BS	CB	
AS-122 Perimeter AMS-01 PE01 50 25/19.555 26/19.1555 600 3.0-07 A 2/11/19 20 cpm 0.050 3.300 0.1 6.5 2.2E-15 9.8E-14 0.2% 1.6% 8S C8 AS-122 Perimeter AMS-02 PE02 60 25/19.600 595 3.6E-07 A 2/11/19 20 cpm 0.050 3.200 0.1 6.5 2.2E-15 9.8E-14 0.4% 1.5% 8S C8 AS-124 Perimeter AMS-05 PE03 50 25/19.600 26/19.610 460 2.8E-07 A 2/11/19 20 cpm 0.050 3.200 0.1 6.2 2.7E-15 1.2E-13 0.3% 1.9% 8S C8 AS-124 Perimeter AMS-08 PE04 60 25/19.800 26/19.610 460 2.8E-07 A 2/11/19 20 cpm 0.050 3.200 0.1 6.9 2.7E-15 8.8E-14 0.3% 1.3% 8S C8 AS-125 Perimeter AMS-08 PE04 60 25/19.610 460 2.8E-07 A 2/11/19 20 cpm 0.050 3.200 0.1 6.9 3.8E-15 1.8E-13 0.4% 1.7% 8S C8 AS-126 Perimeter AMS-08 PE02 60 25/19.610 685 4.1E-07 A 2/11/19 20 cpm 0.200 3.760 0.8 7.7 6.3E-15 8.8E-14 0.7% 1.4% 8S C8 AS-126 Perimeter AMS-05 PE03 50 25/19.610 25/19.610 685 4.1E-07 A 2/11/19 20 cpm 0.200 3.760 0.8 7.7 6.3E-15 8.8E-14 0.7% 1.4% 8S C8 AS-126 Perimeter AMS-05 PE03 50 25/19.610 25/19.610 685 4.1E-07 A 2/11/19 20 cpm 0.200 4.050 0.8 5.8 60E-15 1.2E-13 0.9% 2.0% 8S C8 AS-120 Perimeter AMS-05 PE03 50 25/19.610 25/19.610 685 3.3E-07 A 2/11/19 20 cpm 0.200 4.050 0.8 5.8 60E-15 1.2E-13 0.9% 2.0% 8S C8 AS-130 Perimeter AMS-08 PE04 60 25/19.610 25/19.19.10 650 3.3E-07 A 2/11/19 20 cpm 0.200 4.050 0.8 5.8 60E-15 1.2E-13 0.9% 2.0% 8S C8 AS-130 Perimeter AMS-09 PE03 50 27/19.635 27/19.1410 510 2.6E-07 A 2/11/19 20 cpm 0.200 4.050 0.8 5.8 60E-15 1.2E-13 0.9% 2.0% 8S C8 AS-130 Perimeter AMS-09 PE04 60 25/19.653 27/19.1410 510 3.1E-07 A 2/11/19 20 cpm 0.300 4.500 0.7 7.3 8.3E-15 1.2E-13 0.9% 2.0% 8S C8 AS-133 Perimeter AMS-01 PE01 50 27/19.635 27/19.1410 510 3.1E-07 A 2/11/19 20 cpm 0.300 4.500 0.7 7.3 8.3E-15 1.2E-13 0.9% 2.0% 8S C8 AS-133 Perimeter AMS-02 PE02 60 27/19.650 25/19.650 25/19.19.600 2.000 0.000 3.5E-07 A 2/19.19 20 cpm 0.300 4.500 0.9 9.8 1.2E-14 1.4E-13 1.3% 2.3% 8S C8 AS-133 Perimeter AMS-02 PE03 60 27/19.650 25/19.650 25/19.19.650 25/19.19.650 25/19.19.650 25/19.19.650 25/19.19.650 25/19.19.650 25/19.19.650 25/19.19.650 25/19.19.650 25/19.19.650 25/19.19.6	AS-120	Perimeter	AMS-06	PE04	60	2/4/19 7:15	2/4/19 16:15	540	3.2E+07	Α	2/11/19	20	cpm	0.150	4.500	0.4	9.8	6.0E-15	1.4E-13	0.7%	2.3%	BS	CB	
AS-123 Perimeter AMS-02 PE02 60 2/5/19 6.00 595 3.6E+07 A 2/11/19 20 cpm 0.00 3.550 0.3 7.2 3.6E-15 9.1E-14 0.4% 1.5% BS C8 AS-124 Perimeter AMS-08 PE04 60 2/5/19 6.00 480 2/4E+07 A 2/11/19 20 cpm 0.050 3.200 0.1 6.2 2/7E-15 12E-13 0.3% 1.9% BS C8 AS-125 Perimeter AMS-01 PE01 50 2/6/19 6.00 2/6/19 17.15 675 3.4E+07 A 2/11/19 20 cpm 0.050 2.700 0.1 4.9 2.4E+15 8.0E+14 0.3% 1.3% BS C8 AS-126 Perimeter AMS-01 PE01 50 2/6/19 6.00 2/6/19 17.15 675 3.4E+07 A 2/11/19 20 cpm 0.050 2.700 0.1 4.9 2.4E+15 8.0E+14 0.3% 1.3% BS C8 AS-126 Perimeter AMS-02 PE02 60 2/6/19 555 2/6/19 17.20 685 4.1E+07 A 2/11/19 20 cpm 0.200 3.760 0.6 7.7 6.3E-15 8.5E-14 0.7% 1.4% BS C8 AS-128 Perimeter AMS-05 PE03 50 2/6/19 6.05 0.66/19 17.00 650 3.3E+07 A 2/11/19 20 cpm 0.200 4.050 0.6 8.5 8.0E+15 1.2E-13 0.9% 2.0% BS C8 AS-128 Perimeter AMS-08 PE04 60 2/6/19 6.15 2/6/19 17.05 650 3.9E+07 A 2/11/19 20 cpm 0.200 4.050 0.6 8.5 8.0E-15 1.2E-13 0.9% 2.0% BS C8 AS-128 Perimeter AMS-08 PE04 60 2/6/19 6.15 2/6/19 17.05 650 3.9E+07 A 2/11/19 20 cpm 0.200 4.050 0.6 8.5 8.0E-15 1.2E-13 0.9% 2.0% BS C8 AS-132 Perimeter AMS-08 PE04 60 2/6/19 6.15 2/6/19 17.05 650 3.9E+07 A 2/11/19 20 cpm 0.200 4.050 0.0 7.5 0.0E+00 1.3E-13 0.0% 2.2% BS C8 AS-132 Perimeter AMS-08 PE04 60 2/11/9 5.35 2/11/9 14:10 515 2.6E+07 A 2/11/19 20 cpm 0.200 4.050 0.0 7.5 0.0E+00 1.3E-13 0.0% 2.2% BS C8 AS-132 Perimeter AMS-01 PE01 50 2/11/9 3.02 2/11/9 16:30 540 2.7E+07 A 2/11/9 20 cpm 0.200 4.050 0.0 7.5 0.0E+00 1.3E-13 0.0% 2.2% BS C8 AS-132 Perimeter AMS-01 PE01 50 2/11/9 7.30 2/11/9 16:30 540 2.7E+07 A 2/11/9 20 cpm 0.300 4.950 0.0 9 8.1 2.E-14 1.6E-13 1.6% 2.7% BS C8 AS-132 Perimeter AMS-01 PE01 50 2/11/9 7.35 2/11/9 16:30 540 2.7E+07 A 2/11/9 20 cpm 0.300 4.900 0.0 9 9.8 1.2E-14 1.4E-13 1.3% 2.3% BS C8 AS-132 Perimeter AMS-01 PE01 50 2/11/9 7.35 2/11/9 16:30 540 2.7E+07 A 2/11/9 20 cpm 0.300 4.500 0.0 9 9.8 1.2E-14 1.4E-13 1.3% 2.3% BS C8 AS-133 Perimeter AMS-01 PE01 50 2/11/9 7.55 555 5.55 5.55 5.55 5.55 5.55 5.55	AS-121	Perimeter	EX # MDR-3	PE05	60	2/4/19 10:30	2/4/19 16:00	330	2.0E+07	Α	2/11/19	20	cpm	0.150	3.550	0.4	7.2	9.8E-15	1.6E-13	1.1%	2.7%	BS	CB	
AS-124 Perimeter AMS-05 PE03 50 2/5/19 8:00 2/5/19 16:00 480 2.4E+07 A 2/11/19 20 cpm 0.050 3.200 0.1 6.2 2.7E-15 1.2E-13 0.3% 1.9% BS CB AS-125 Perimeter AMS-08 PE04 60 2/5/19 8:30 2/5/19 16:10 460 2.8E+07 A 2/11/19 20 cpm 0.050 2.700 0.1 4.9 2.4E-15 80E-14 0.3% 1.3% BS CB AS-126 Perimeter AMS-01 PE01 50 2/5/19 17:20 685 4.1E+07 A 2/11/19 20 cpm 0.000 3.700 0.3 7.6 3.8E-15 1.0E-13 0.4% 1.7% BS CB AS-127 Perimeter AMS-02 PE02 60 2/6/19 5.55 2/6/19 17:20 685 4.1E+07 A 2/11/19 20 cpm 0.200 3.750 0.6 7.7 6.3E-15 8.5E-14 0.7% 1.4% BS CB AS-128 Perimeter AMS-05 PE03 50 2/6/19 6:10 2/6/19 17:05 650 3.5E+07 A 2/11/19 20 cpm 0.200 4.050 0.6 8.5 8.0E-15 1.2E-13 0.9% 2.0% BS CB AS-130 Perimeter AMS-01 PE01 50 2/7/19 5:30 2/7/19 14:00 510 3.1E+07 A 2/11/19 20 cpm 0.000 3.650 0.0 7.7 3.8.3E-15 8.5E-14 0.9% 1.4% BS CB AS-131 Perimeter AMS-01 PE01 50 2/7/19 5:30 2/7/19 14:00 510 3.1E+07 A 2/11/19 20 cpm 0.000 3.650 0.0 7.7 5.0E-00 1.3E-13 0.0% 2.2% BS CB AS-132 Perimeter AMS-01 PE01 50 2/7/19 5:30 2/7/19 14:00 510 3.1E+07 A 2/11/19 20 cpm 0.000 3.650 0.0 7.7 5.0E-00 1.3E-13 0.0% 2.2% BS CB AS-133 Perimeter AMS-01 PE01 50 2/7/19 5:30 2/7/19 14:00 510 3.1E+07 A 2/11/19 20 cpm 0.000 3.650 0.0 7.7 5.0E-00 1.3E-13 0.0% 2.2% BS CB AS-133 Perimeter AMS-01 PE02 60 2/11/19 7:30 2/11/19 16:30 540 3.2E-07 A 2/11/19 20 cpm 0.000 4.500 0.9 9.8 1.2E-14 1.4E-13 0.8% 2.7% BS CB AS-133 Perimeter AMS-02 PE02 60 2/11/19 7:35 540 3.2E-07 A 2/19/19 20 cpm 0.000 4.500 0.9 9.8 1.2E-14 1.4E-13 0.8% 2.7% BS CB AS-133 Perimeter AMS-01 PE01 50 2/11/19 7:45 2/11/19 16:10 50 2/11/19 16:0 515 2.6E+07 A 2/19/19 20 cpm 0.000 4.500 0.9 9.8 1.2E-14 1.4E-13 0.8% 2.7% BS CB AS-133 Perimeter AMS-01 PE01 50 2/11/19 7:45 2/11/19 16:0 515 2.6E+07 A 2/19/19 20 cpm 0.000 4.500 0.9 9.8 1.2E-14 1.4E-13 0.8% 2.7% BS CB AS-133 Perimeter AMS-02 PE02 60 2/11/19 7:45 2/11/19 16:0 515 2.6E+07 A 2/19/19 20 cpm 0.000 4.500 0.9 9.8 1.2E-14 1.4E-13 0.8% 2.7% BS CB AS-133 Perimeter AMS-01 PE01 50 2/11/19 16:0 50 55 3.6E+07 A 2/19/19 20 cpm 0.100 0.000 0.000 0.000 0.000 0.000 0.0	AS-122	Perimeter	AMS-01	PE01	50	2/5/19 5:55	2/5/19 15:55	600	3.0E+07	Α	2/11/19	20	cpm	0.050	3.300	0.1	6.5	2.2E-15	9.8E-14	0.2%	1.6%	BS	CB	
AS-126 Perimeter AMS-08 PE04 60 2/5/19/8:30 2/5/19/16:10 460 2.8E-07 A 2/11/19 20 cpm 0.050 2.700 0.1 4.9 2.4E-15 8.0E-14 0.3% 1.3% BS CB AS-126 Perimeter AMS-01 PE01 50 2/5/19/8:00 2/5/19/17/5 675 3.4E-07 A 2/11/19 20 cpm 0.050 3.700 0.3 7.6 3.8E-15 1.0E-13 0.4% 1.7% BS CB AS-127 Perimeter AMS-02 PE02 60 2/5/19/5/5 2/5/6/19/17/20 685 4.1E-07 A 2/11/19 20 cpm 0.200 3.750 0.6 7.7 6.3E-15 8.5E-14 0.7% BS CB AS-128 Perimeter AMS-05 PE03 50 2/5/19/17/0 650 3.5E-07 A 2/11/19 20 cpm 0.200 4.050 0.6 8.5 8.0E-15 1.2E-13 0.9% 2.0% BS CB AS-128 Perimeter AMS-08 PE04 60 2/5/19/5/5 2/5/19/17/0 650 3.9E-07 A 2/11/19 20 cpm 0.200 4.050 0.6 8.5 8.0E-15 1.2E-13 0.9% 2.0% BS CB AS-130 Perimeter AMS-01 PE01 50 2/7/19/5.35 2/7/19/4-10 515 2.6E-07 A 2/11/19 20 cpm 0.250 3.600 0.7 7.3 8.3E-15 8.5E-14 0.9% 1.4% BS CB AS-130 Perimeter AMS-02 PE02 60 2/7/19/5.35 2/7/19/4-10 510 3.1E-07 A 2/11/19 20 cpm 0.350 4.950 1.0 11.0 1.5E-14 1.6E-13 1.6% 2.2% BS CB AS-131 Perimeter AMS-01 PE01 50 2/11/19/19/3.0 2/11/19/16/3.0 540 2.7E-07 A 2/11/19 20 cpm 0.350 4.950 1.0 11.0 1.5E-14 1.6E-13 1.6% 2.7% BS CB AS-132 Perimeter AMS-02 PE02 60 2/11/19/7.35 2/11/19/16/3.0 540 2.7E-07 A 2/19/19 20 cpm 0.350 4.950 1.0 11.0 1.5E-14 1.6E-13 1.6% 2.7% BS CB AS-133 Perimeter AMS-02 PE03 60 2/11/19/7.35 2/11/19/16/3.0 540 3.2E-07 A 2/19/19 20 cpm 0.350 4.950 1.0 11.0 1.5E-14 1.6E-13 1.6% 2.7% BS CB AS-133 Perimeter AMS-02 PE03 60 2/11/19/7.35 2/11/19/16/3.0 540 3.2E-07 A 2/19/19 20 cpm 0.250 4.000 0.7 8.4 1.3E-14 1.4E-13 1.3% 2.3% BS CB AS-134 Perimeter AMS-05 PE03 50 2/11/19/16/3.0 540 3.2E-07 A 2/19/19 20 cpm 0.250 4.000 0.7 8.4 1.3E-14 1.4E-13 1.3% 2.3% BS CB AS-136 Perimeter AMS-05 PE03 50 2/11/19/16/3.0 540 3.2E-07 A 2/19/19 20 cpm 0.250 4.000 0.7 8.4 1.3E-14 1.4E-13 1.3% 2.3% BS CB AS-138 Perimeter AMS-05 PE03 50 2/11/19/16/3.0 540 3.2E-07 A 2/19/19 20 cpm 0.050 4.650 0.1 10.2 2.3E-15 1.6E-13 0.3% 2.6% BS CB AS-138 Perimeter AMS-01 PE04 60 2/11/19/8-15 2/11/19/16/3.0 585 2/16/07 A 2/19/19 20 cpm 0.050 4.650 0.1 10.2 2.3E-15 1.6E-13 0.3% 2.6% BS CB AS-13	AS-123	Perimeter	AMS-02	PE02	60	2/5/19 6:05	2/5/19 16:00	595	3.6E+07	Α	2/11/19	20	cpm	0.100	3.550	0.3	7.2	3.6E-15	9.1E-14	0.4%	1.5%	BS	CB	
AS-126 Perimeter AMS-01 PE01 50 2/6/19 6.00 2/6/19 17.15 675 3.4E+07 A 2/11/19 20 cpm 0.100 3.700 0.3 7.6 3.8E+15 1.0E+13 0.4% 1.7% BS CB AS-127 Perimeter AMS-02 PE02 60 2/6/19 6.10 2/6/19 17.00 650 3.8E+07 A 2/11/19 20 cpm 0.200 3.750 0.6 7.7 6.3E+15 8.5E+14 0.7% 1.4% BS CB AS-128 Perimeter AMS-05 PE03 50 2/6/19 6.10 2/6/19 17.00 650 3.8E+07 A 2/11/19 20 cpm 0.200 0.30 0.6 8.5 8.0E+15 1.2E+13 0.9% 2.0% BS CB AS-129 Perimeter AMS-08 PE04 60 2/6/19 6.15 2/6/19 17.05 650 3.9E+07 A 2/11/19 20 cpm 0.250 3.000 0.7 7.3 8.3E+15 8.5E+14 0.9% 1.4% BS CB AS-130 Perimeter AMS-01 PE01 50 2/7/19 5.35 2/7/19 14.10 515 2.6E+07 A 2/11/19 20 cpm 0.250 3.000 0.7 7.3 8.3E+15 8.5E+14 0.9% 1.4% BS CB AS-130 Perimeter AMS-02 PE02 60 2/7/19 5.30 2/7/19 14.00 510 3.1E+07 A 2/11/19 20 cpm 0.250 3.000 0.7 7.3 8.3E+15 8.5E+14 0.9% 1.4% BS CB AS-131 Perimeter AMS-02 PE02 60 2/7/19 5.30 2/7/19 14.00 510 3.1E+07 A 2/11/19 20 cpm 0.250 3.000 0.7 7.5 0.0E+00 13.E+13 0.0% 2.2% BS CB AS-132 Perimeter AMS-02 PE02 60 2/11/19 7.35 2/11/19 16.03 540 3.2E+07 A 2/11/19 20 cpm 0.500 4.850 0.0 4.85 7.2E+15 1.4E+13 1.8% 2.3% BS CB AS-133 Perimeter AMS-02 PE02 60 2/11/19 7.35 2/11/19 16.20 515 2.6E+07 A 2/19/19 20 cpm 0.500 4.500 0.9 9.8 1.2E+14 1.4E+13 1.3% 2.3% BS CB AS-135 Perimeter AMS-02 PE03 50 2/11/19 7.35 2/11/19 16.20 515 2.6E+07 A 2/19/19 20 cpm 0.500 4.000 0.7 8.4 1.3E+14 1.5E+13 1.4% 2.4% BS CB AS-135 Perimeter AMS-01 PE01 50 2/11/19 8/15 2/11/19 16.10 380 2.3E+07 A 2/19/19 20 cpm 0.150 3.000 0.4 8.5 1.2E+13 0.3% 2.4% BS CB AS-137 Perimeter AMS-01 PE01 50 2/11/19 8/15 2/11/19 16.10 380 2.3E+07 A 2/19/19 20 cpm 0.150 3.000 0.4 8.5 1.2E+13 0.3% 2.4% BS CB AS-137 Perimeter AMS-01 PE01 50 2/11/19 16.10 380 2.3E+07 A 2/19/19 20 cpm 0.150 3.000 0.4 6.2 8.5E+15 1.6E+13 0.3% 2.4% BS CB AS-137 Perimeter AMS-01 PE01 50 2/11/19 16.10 380 2.3E+07 A 2/19/19 20 cpm 0.150 3.000 0.4 6.2 8.5E+15 1.6E+13 0.3% 2.4% BS CB AS-139 Perimeter AMS-01 PE01 50 2/11/19 16.10 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.400 0.4 6.2 8.5E+15 1.6E+13 0.3% 2.4% BS CB AS-139 Perimete	AS-124	Perimeter	AMS-05	PE03	50	2/5/19 8:00	2/5/19 16:00	480	2.4E+07	Α	2/11/19	20	cpm	0.050	3.200	0.1	6.2	2.7E-15	1.2E-13	0.3%	1.9%	BS	CB	
AS-127 Perimeter AMS-02 PE02 60 2/6/19 5:55 2/6/19 17:20 685 4.1E+07 A 2/11/19 20 cpm 0.200 3.750 0.6 7.7 6.3E-15 8.5E-14 0.7% 1.4% BS CB AS-128 Perimeter AMS-05 PE03 50 2/6/19 6:10 2/6/19 17:00 650 3.3E+07 A 2/11/19 20 cpm 0.200 4.050 0.6 8.5 8.0E-15 1.2E-13 0.9% 2.0% BS CB AS-129 Perimeter AMS-08 PE04 60 2/6/19 6:15 2/6/19 17:05 650 3.9E+07 A 2/11/19 20 cpm 0.200 4.050 0.6 8.5 8.0E-15 1.2E-13 0.9% 2.0% BS CB AS-130 Perimeter AMS-01 PE01 50 2/7/19 5:35 2/7/19 14:10 515 2.6E+07 A 2/11/19 20 cpm 0.000 3.650 0.0 7.7 5.0 E-00 1.3E-13 0.9% 2.2% BS CB AS-131 Perimeter AMS-02 PE02 60 2/7/19 5:30 2/7/19 14:00 510 3.1E+07 A 2/11/19 20 cpm 0.000 3.650 0.0 7.5 0.0E+00 1.3E-13 0.0% 2.2% BS CB AS-132 Perimeter AMS-01 PE01 50 2/11/19 7:30 2/11/19 16:30 540 2/E+07 A 2/19/19 20 cpm 0.050 4.950 1.0 11.0 1.5E-14 1.6E-13 1.6% 2.7% BS CB AS-133 Perimeter AMS-02 PE02 60 2/11/19 7:35 2/11/19 16:35 540 3.2E+07 A 2/19/19 20 cpm 0.050 4.500 0.9 9.8 1.2E-14 1.4E-13 1.3% 2.3% BS CB AS-134 Perimeter AMS-05 PE03 50 2/11/19 745 2/11/19 16:35 540 3.2E+07 A 2/19/19 20 cpm 0.050 4.500 0.9 9.8 1.2E-14 1.4E-13 1.3% 2.3% BS CB AS-136 Perimeter AMS-05 PE03 50 2/11/19 745 2/11/19 16:15 2.6E+07 A 2/19/19 20 cpm 0.050 4.500 0.9 9.8 1.2E-14 1.4E-13 1.3% 2.3% BS CB AS-136 Perimeter AMS-10 PE01 50 2/11/19 18:15 2/11/19 16:15 3.8E-07 A 2/19/19 20 cpm 0.050 4.500 0.7 A 3.4 1.3E-13 1.4K-13 1.3% 2.3% BS CB AS-136 Perimeter AMS-10 PE01 50 2/11/19 18:50 585 2.9E+07 A 2/19/19 20 cpm 0.050 4.500 0.7 A 3.4 1.3E-13 1.4E-13 1.3% 2.4% BS CB AS-138 Perimeter AMS-05 PE03 50 2/11/19 18:50 585 2.9E+07 A 2/19/19 20 cpm 0.050 4.500 0.7 7.3 6.8E-15 1.2E-13 0.9% 2.1% BS CB AS-138 Perimeter AMS-05 PE03 50 2/11/19 18:50 585 2.9E+07 A 2/19/19 20 cpm 0.150 3.200 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.1% BS CB AS-138 Perimeter AMS-05 PE03 50 2/11/19 18:50 585 2.9E+07 A 2/19/19 20 cpm 0.150 3.500 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.1% BS CB AS-139 Perimeter AMS-05 PE03 50 2/11/19 6:15 5/11/19 6:15 5/11/19 6:15 5/11/19 6:15 5/11/19 6:15 5/11/19 6:15 5/11/19 6:15 5/11/19 6:15 5/11/19 6:15 5/1	AS-125	Perimeter	AMS-08	PE04	60	2/5/19 8:30	2/5/19 16:10	460	2.8E+07	Α	2/11/19	20	cpm	0.050	2.700	0.1	4.9	2.4E-15	8.0E-14	0.3%	1.3%	BS	СВ	
AS-128 Perimeter AMS-05 PE03 50 2/6/19 6:10 2/6/19 17:00 650 3.3E+07 A 2/11/19 20 cpm 0.200 4.050 0.6 8.5 8.0E-15 1.2E-13 0.9% 2.0% BS CB AS-129 Perimeter AMS-08 PE04 60 2/6/19 6:15 2/6/19 17:05 650 3.8E+07 A 2/11/19 20 cpm 0.250 3.600 0.7 7.3 8.3E-15 8.5E-14 0.9% 1.4% BS CB AS-130 Perimeter AMS-01 PE01 50 2/7/19 5:30 2/7/19 14:10 515 2/6E+07 A 2/11/19 20 cpm 0.000 3.650 0.0 7.5 0.0E+00 1.3E-13 0.9% 2.2% BS CB AS-131 Perimeter AMS-02 PE02 60 2/7/19 5:30 2/7/19 14:00 510 3.1E+07 A 2/11/19 20 cpm 0.350 4.950 1.0 11.0 1.5E-14 1.6E-13 1.6% 2.7% BS CB AS-132 Perimeter AMS-01 PE01 50 2/11/19 7:30 2/11/19 16:30 540 2.7E+07 A 2/19/19 20 cpm 0.150 4.050 0.4 8.5 7.2E-15 1.4E-13 0.8% 2.4% BS CB AS-134 Perimeter AMS-02 PE02 60 2/11/19 7:35 2/11/19 16:20 515 2/6E+07 A 2/19/19 20 cpm 0.300 4.950 0.9 9.8 1.2E-14 1.4E-13 1.3% 2.3% BS CB AS-135 Perimeter AMS-05 PE03 50 2/11/19 7:45 2/11/19 16:20 515 2/6E+07 A 2/19/19 20 cpm 0.050 4.000 0.7 8.4 1.3E-14 1.5E-13 1.0% 2.7% BS CB AS-136 Perimeter AMS-10 PE04 60 2/11/19 8:15 2/11/19 16:15 480 2.9E+07 A 2/19/19 20 cpm 0.050 4.000 0.7 8.4 1.3E-14 1.5E-13 1.0% 2.6% BS CB AS-136 Perimeter AMS-10 PE04 60 2/11/19 8:15 2/11/19 16:15 595 585 2.9E+07 A 2/19/19 20 cpm 0.150 4.050 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.7M BS CB AS-139 Perimeter AMS-01 PE01 50 2/12/19 6:05 2/12/19 15:55 595 585 2.9E+07 A 2/19/19 20 cpm 0.150 4.050 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.7M BS CB AS-139 Perimeter AMS-01 PE01 50 2/12/19 6:05 2/12/19 15:55 595 585 2.9E+07 A 2/19/19 20 cpm 0.150 4.050 0.4 6.9 5.4E-15 1.2E-13 0.9% 2.7M BS CB AS-140 Perimeter AMS-01 PE01 50 2/12/19 6:10 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.850 0.4 9.3 6.7E-15 1.2E-13 0.9% 2.7M BS CB AS-140 Perimeter AMS-02 PE02 60 2/12/19 6:10 2/12/19 16:10 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 9.3 6.7E-15 1.2E-13 0.9% 2.7M BS CB AS-140 Perimeter AMS-01 PE01 60 2/12/19 6:10 2/12/19 16:10 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 1.2E-13 1.0% 2.8% BS CB AS-140 Perimeter AMS-01 PE04 60 2/12/19 6:10 2/12/19 16:10 600 3.0E+07 A 2/19/19 20 cpm 0.100 3	AS-126	Perimeter	AMS-01	PE01	50	2/6/19 6:00	2/6/19 17:15	675	3.4E+07	Α	2/11/19	20	cpm	0.100	3.700	0.3	7.6	3.8E-15	1.0E-13	0.4%	1.7%	BS	СВ	
AS-129 Perimeter AMS-08 PE04 60 2/6/19 6.15 2/6/19 17.05 650 3.9E+07 A 2/11/19 20 cpm 0.250 3.600 0.7 7.3 8.3E-15 8.5E-14 0.9% 1.4% BS CB AS-130 Perimeter AMS-01 PE01 50 2/7/19 5.35 2/7/19 14:10 515 2.6E+07 A 2/11/19 20 cpm 0.000 3.650 0.0 7.5 0.0E+00 1.3E-13 0.0% 2.2% BS CB AS-131 Perimeter AMS-02 PE02 60 2/7/19 5.30 2/7/19 14:00 510 3.1E+07 A 2/11/19 20 cpm 0.350 4.950 1.0 11.0 11.0 15.E-14 1.6E-13 1.6% 2.7% BS CB AS-132 Perimeter AMS-02 PE02 60 2/11/19 7:30 2/11/19 16:30 540 2.7E+07 A 2/19/19 20 cpm 0.350 4.950 0.0 0.4 8.5 7.2E-15 1.4E-13 1.3% 2.3% BS CB AS-133 Perimeter AMS-02 PE02 60 2/11/19 7:35 2/11/19 16:35 540 3.2E+07 A 2/19/19 20 cpm 0.300 4.500 0.9 9.8 1.2E-14 1.4E-13 1.3% 2.3% BS CB AS-134 Perimeter AMS-05 PE03 50 2/11/19 16:20 515 2.6E+07 A 2/19/19 20 cpm 0.250 4.000 0.7 8.4 1.3E-14 1.5E-13 1.4W 2.4% BS CB AS-135 Perimeter AMS-10 PE04 60 2/11/19 8:15 2/11/19 16:15 480 2.9E+07 A 2/19/19 20 cpm 0.050 4.650 0.1 10.2 2.3E-15 1.6E-13 0.3% 2.6% BS CB AS-138 Perimeter EX# 1222 F PE06 60 2/11/19 6:05 2/11/19 16:10 380 2.3E+07 A 2/19/19 20 cpm 0.150 3.200 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.1% BS CB AS-139 Perimeter AMS-01 PE01 50 2/12/19 6:05 2/12/19 15:50 585 3.6E+07 A 2/19/19 20 cpm 0.150 3.200 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.1% BS CB AS-139 Perimeter AMS-02 PE02 60 2/12/19 6:05 2/12/19 15:50 585 3.6E+07 A 2/19/19 20 cpm 0.150 3.200 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.1% BS CB AS-139 Perimeter AMS-02 PE02 60 2/12/19 6:10 2/12/19 16:0 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.350 0.4 6.9 5.4E-15 1.4E-13 0.9% 2.1% BS CB AS-139 Perimeter AMS-02 PE02 60 2/12/19 6:10 2/12/19 16:10 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 1.4E-13 0.9% 2.1% BS CB AS-140 Perimeter AMS-01 PE01 50 2/12/19 6:10 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 8.6E-14 0.6% 1.4W BS CB AS-140 Perimeter AMS-01 PE03 50 2/12/19 6:10 5/12/19 16:10 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 8.6E-14 0.6% 1.4W BS CB AS-144 Perimeter AMS-01 PE01 50 2/12/19 6:00 2/12/19 6:15 5/12/19 14:40 370 2.2E+07 A 2/19/19 20 cpm 0.15	AS-127	Perimeter	AMS-02	PE02	60	2/6/19 5:55	2/6/19 17:20	685	4.1E+07	Α	2/11/19	20	cpm	0.200	3.750	0.6	7.7	6.3E-15	8.5E-14	0.7%	1.4%	BS	СВ	
AS-130 Perimeter AMS-01 PE01 50 27/19 5:35 27/19 14:10 515 2.6E+07 A 2/11/19 20 cpm 0.000 3.650 0.0 7.5 0.0E+00 1.3E-13 0.0% 2.2% BS CB AS-131 Perimeter AMS-02 PE02 60 27/19 5:30 27/19 14:00 510 3.1E+07 A 2/11/19 20 cpm 0.350 4.950 1.0 11.0 11.0 1.5E-14 1.6E-13 1.6% 2.7% BS CB AS-132 Perimeter AMS-01 PE01 50 2/11/19 7:30 2/11/19 16:30 540 3.2E+07 A 2/19/19 20 cpm 0.150 4.050 0.4 8.5 7.2E-15 1.4E-13 0.8% 2.4% BS CB AS-133 Perimeter AMS-02 PE02 60 2/11/19 7:35 2/11/19 16:35 540 3.2E+07 A 2/19/19 20 cpm 0.300 4.500 0.9 9.8 1.2E-14 1.4E-13 1.3% 2.3% BS CB AS-134 Perimeter AMS-05 PE03 50 2/11/19 8:15 2/11/19 16:15 480 2.9E+07 A 2/19/19 20 cpm 0.050 4.000 0.7 8.4 1.3E-14 1.5E-13 1.4% 2.4% BS CB AS-135 Perimeter AMS-01 PE04 60 2/11/19 8:15 2/11/19 16:15 480 2.9E+07 A 2/19/19 20 cpm 0.050 4.650 0.1 10.2 2.3E-15 1.6E-13 0.3% 2.6% BS CB AS-137 Perimeter AMS-01 PE01 50 2/12/19 6:00 2/11/19 16:0 380 2.3E+07 A 2/19/19 20 cpm 0.150 3.200 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.1% BS CB AS-138 Perimeter AMS-01 PE01 50 2/12/19 6:00 2/12/19 15:50 585 2.9E+07 A 2/19/19 20 cpm 0.150 3.200 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.1% BS CB AS-139 Perimeter AMS-01 PE01 50 2/12/19 6:00 2/12/19 16:00 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.250 0.4 9.3 6.7E-15 1.4E-13 0.7% 2.4% BS CB AS-139 Perimeter AMS-05 PE03 50 2/12/19 6:00 2/12/19 16:10 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 9.3 6.7E-15 1.4E-13 0.9% 2.4% BS CB AS-140 Perimeter AMS-05 PE03 50 2/12/19 6:15 600 3.6E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 9.3 6.7E-15 1.4E-13 1.9% 1.8% BS CB AS-140 Perimeter AMS-01 PE04 60 2/12/19 6:15 2/12/19 16:15 600 3.6E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 9.3 6.7E-15 1.4E-13 1.9% 1.8% BS CB AS-140 Perimeter AMS-01 PE04 60 2/12/19 6:15 600 3.6E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 8.6E-14 0.6% 1.4% BS CB AS-140 Perimeter AMS-01 PE04 60 2/12/19 6:05 2/12/19 16:15 600 3.6E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 8.6E-14 0.6% 1.4% BS CB AS-140 Perimeter AMS-01 PE04 50 2/12/19 6:05 2/12/19 16:15 600 3.6E-07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15	AS-128	Perimeter	AMS-05	PE03	50	2/6/19 6:10	2/6/19 17:00	650	3.3E+07	Α	2/11/19	20	cpm	0.200	4.050	0.6	8.5	8.0E-15	1.2E-13	0.9%	2.0%	BS	СВ	
AS-131 Perimeter AMS-02 PE02 60 27/1/19 5.30 27/1/19 14:00 510 3.1E+07 A 2/11/19 20 cpm 0.350 4.950 1.0 11.0 1.5E-14 1.6E-13 1.6% 2.7% BS CB AS-132 Perimeter AMS-01 PE01 50 2/11/19 7:30 2/11/19 16:30 540 2.7E+07 A 2/19/19 20 cpm 0.150 4.050 0.4 8.5 7.2E-15 1.4E-13 0.8% 2.4% BS CB AS-133 Perimeter AMS-02 PE02 60 2/11/19 7:35 2/11/19 16:35 540 3.2E+07 A 2/19/19 20 cpm 0.300 4.500 0.9 9.8 1.2E-14 1.4E-13 1.3% 2.3% BS CB AS-134 Perimeter AMS-05 PE03 50 2/11/19 7:45 2/11/19 16:15 2.6E+07 A 2/19/19 20 cpm 0.300 4.500 0.9 9.8 1.2E-14 1.4E-13 1.3% 2.3% BS CB AS-135 Perimeter AMS-10 PE04 60 2/11/19 8:15 2/11/19 16:15 480 2.9E+07 A 2/19/19 20 cpm 0.050 4.650 0.1 10.2 2.3E-15 1.6E-13 0.3% 2.66% BS CB AS-136 Perimeter AMS-01 PE01 50 2/12/19 6:05 2/12/19 15:50 585 2.9E+07 A 2/19/19 20 cpm 0.150 3.200 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.7% BS CB AS-138 Perimeter AMS-02 PE02 60 2/12/19 6:05 2/12/19 15:55 595 3.6E+07 A 2/19/19 20 cpm 0.150 4.350 0.4 9.3 6.7E-15 1.4E-13 0.7% 2.4% BS CB AS-139 Perimeter AMS-05 PE03 50 2/12/19 6:10 2/12/19 16:15 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.550 1.2 7.2 1.7E-14 1.1E-13 1.9% 1.8% BS CB AS-139 Perimeter AMS-05 PE03 50 2/12/19 6:10 2/12/19 16:15 600 3.0E+07 A 2/19/19 20 cpm 0.100 3.750 0.3 7.7 3.6E-15 9.7E-14 0.4% 1.6% BS CB AS-141 Perimeter AMS-05 PE03 50 2/12/19 6:15 2/12/19 16:15 600 3.0E+07 A 2/19/19 20 cpm 0.100 3.750 0.3 7.7 3.6E-15 9.7E-14 0.4% 1.6% BS CB AS-141 Perimeter AMS-05 PE03 50 2/12/19 6:15 2/12/19 16:15 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 8.6E-14 0.6% 1.4% BS CB AS-141 Perimeter AMS-01 PE04 60 2/12/19 8:30 2/12/19 16:15 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 1.5E-13 1.0% 2.5% BS CB AS-144 Perimeter AMS-01 PE04 60 2/12/19 8:30 2/12/19 16:15 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 1.5E-13 1.0% 2.5% BS CB AS-144 Perimeter AMS-01 PE04 60 2/12/19 6:15 2/12/19 16:15 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 1.5E-13 0.6% 2.6% BS CB AS-144 Perimeter AMS-01 PE04 60 2/12/19 6:05 2/13/19 14:35 515 3.1E+07 A 2/19/19 20 cpm	AS-129	Perimeter	AMS-08	PE04	60	2/6/19 6:15	2/6/19 17:05	650	3.9E+07	Α	2/11/19	20	cpm	0.250	3.600	0.7	7.3	8.3E-15	8.5E-14	0.9%	1.4%	BS	СВ	
AS-132 Perimeter AMS-01 PE01 50 2/11/19 7:30 2/11/19 16:30 540 2.7E+07 A 2/19/19 20 cpm 0.150 4.050 0.4 8.5 7.2E-15 1.4E-13 0.8% 2.4% BS CB AS-133 Perimeter AMS-02 PE02 60 2/11/19 7:35 2/11/19 16:35 540 3.2E+07 A 2/19/19 20 cpm 0.300 4.500 0.9 9.8 1.2E-14 1.4E-13 1.3% 2.3% BS CB AS-134 Perimeter AMS-05 PE03 50 2/11/19 7:45 2/11/19 16:20 515 2.6E+07 A 2/19/19 20 cpm 0.250 4.000 0.7 8.4 1.3E-14 1.5E-13 1.4% 2.4% BS CB AS-135 Perimeter AMS-10 PE04 60 2/11/19 8:15 2/11/19 16:15 480 2.9E+07 A 2/19/19 20 cpm 0.050 4.650 0.1 10.2 2.3E-15 1.6E-13 0.3% 2.6% BS CB AS-136 Perimeter EX # 1222 F PE06 60 2/11/19 9:50 2/11/19 15:50 585 2.9E+07 A 2/19/19 20 cpm 0.150 3.200 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.1% BS CB AS-138 Perimeter AMS-02 PE02 60 2/12/19 6:05 2/12/19 15:55 595 3.6E+07 A 2/19/19 20 cpm 0.150 4.350 0.4 9.3 6.7E-15 1.4E-13 0.7% 2.4% BS CB AS-139 Perimeter AMS-05 PE03 50 2/12/19 6:10 2/12/19 16:15 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.500 0.4 9.3 6.7E-15 1.4E-13 0.7% 2.4% BS CB AS-144 Perimeter AMS-01 PE01 50 2/13/19 8:55 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.150 3.500 0.4 6.9 3.500 0.4 6.9 3.5E-15 1.4E-13 0.7% 2.4% BS CB AS-144 Perimeter AMS-01 PE01 50 2/13/19 6:10 2/12/19 16:15 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.500 0.4 6.9 3.5E-15 1.4E-13 1.9% 3.5% 2.8E-15 3.8E-15 3.6E-15 3.6E	AS-130	Perimeter	AMS-01	PE01	50	2/7/19 5:35	2/7/19 14:10	515	2.6E+07	Α	2/11/19	20	cpm	0.000	3.650	0.0	7.5	0.0E+00	1.3E-13	0.0%	2.2%	BS	СВ	
AS-133 Perimeter AMS-02 PE02 60 2/11/19 7:35 2/11/19 16:35 540 3.2E+07 A 2/19/19 20 cpm 0.300 4.500 0.9 9.8 1.2E-14 1.4E-13 1.3% 2.3% BS CB AS-134 Perimeter AMS-05 PE03 50 2/11/19 7:45 2/11/19 16:15 480 2.9E+07 A 2/19/19 20 cpm 0.500 4.650 0.1 10.2 2.3E-15 1.6E-13 0.3% 2.6% BS CB AS-135 Perimeter AMS-10 PE04 60 2/11/19 8:15 2/11/19 16:15 480 2.9E+07 A 2/19/19 20 cpm 0.500 4.650 0.1 10.2 2.3E-15 1.6E-13 0.3% 2.6% BS CB AS-136 Perimeter EX # 1222 F PE06 60 2/11/19 8:05 2/12/19 15:50 585 2.9E+07 A 2/19/19 20 cpm 0.150 3.200 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.1% BS CB AS-137 Perimeter AMS-01 PE01 50 2/12/19 6:05 2/12/19 15:55 595 3.6E+07 A 2/19/19 20 cpm 0.150 4.350 0.4 9.3 6.7E-15 1.4E-13 0.7% 2.4% BS CB AS-139 Perimeter AMS-02 PE02 60 2/12/19 6:10 2/12/19 16:10 600 3.0E+07 A 2/19/19 20 cpm 0.100 3.750 0.3 7.7 3.6E-15 9.7E-14 0.4% 1.6% BS CB AS-140 Perimeter AMS-04 PE04 60 2/12/19 6:15 2/12/19 16:15 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 9.3 6.7E-15 1.4E-13 1.9% 1.8% BS CB AS-141 Perimeter EX # 1203 C PE06 60 2/12/19 8:30 2/12/19 16:15 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 9.3 6.7E-15 1.4E-13 1.9% 1.8% BS CB AS-141 Perimeter EX # 1203 C PE06 60 2/12/19 8:30 2/12/19 16:15 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 8.6E-14 0.6% 1.4% BS CB AS-141 Perimeter EX # 1203 C PE06 60 2/12/19 8:30 2/12/19 16:15 600 3.0E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 1.5E-13 1.0% 2.5% BS CB AS-144 Perimeter AMS-01 PE01 50 2/13/19 5:55 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 1.5E-13 1.0% 2.5% BS CB AS-144 Perimeter AMS-01 PE01 50 2/13/19 6:00 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 1.0% 2.6% BS CB AS-144 Perimeter AMS-01 PE01 50 2/13/19 6:00 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 1.0% 2.6% BS CB AS-144 Perimeter AMS-01 PE01 50 2/13/19 6:00 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 1.05% 2.6% BS CB AS-144 Perimeter AMS-01 PE01 50 2/13/19 5:55 2/13/19 14:30 515	AS-131	Perimeter	AMS-02	PE02	60	2/7/19 5:30	2/7/19 14:00	510	3.1E+07	Α	2/11/19	20	cpm	0.350	4.950	1.0	11.0	1.5E-14	1.6E-13	1.6%	2.7%	BS	CB	
AS-134 Perimeter AMS-05 PE03 50 2/11/19 7:45 2/11/19 16:20 515 2.6E+07 A 2/19/19 20 cpm 0.250 4.000 0.7 8.4 1.3E-14 1.5E-13 1.4% 2.4% BS CB AS-135 Perimeter AMS-10 PE04 60 2/11/19 8:15 2/11/19 16:15 480 2.9E+07 A 2/19/19 20 cpm 0.050 4.650 0.1 10.2 2.3E-15 1.6E-13 0.3% 2.6% BS CB AS-136 Perimeter EX # 1222 F PE06 60 2/11/19 9:50 2/11/19 16:10 380 2.3E+07 A 2/19/19 20 cpm 0.150 3.200 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.1% BS CB AS-137 Perimeter AMS-01 PE01 50 2/12/19 6:05 2/12/19 15:55 595 3.6E+07 A 2/19/19 20 cpm 0.150 4.350 0.4 9.3 6.7E-15 1.4E-13 0.7% 2.4% BS CB AS-138 Perimeter AMS-02 PE02 60 2/12/19 6:00 2/12/19 6:10 600 3.0E+07 A 2/19/19 20 cpm 0.100 3.750 0.3 7.7 3.6E-15 9.7E-14 0.4% 1.6% BS CB AS-140 Perimeter AMS-10 PE04 60 2/12/19 6:15 2/12/19 16:15 600 3.6E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 8.6E-14 0.6% 1.4% BS CB AS-141 Perimeter EX # 1203 C PE06 60 2/12/19 8:30 2/12/19 14:40 370 2.2E+07 A 2/19/19 20 cpm 0.150 3.6E-07 A 2/19/19	AS-132	Perimeter	AMS-01	PE01	50	2/11/19 7:30	2/11/19 16:30	540	2.7E+07	Α	2/19/19	20	cpm	0.150	4.050	0.4	8.5	7.2E-15	1.4E-13	0.8%	2.4%	BS	CB	
AS-135 Perimeter AMS-10 PE04 60 2/11/19 8:15 2/11/19 16:15 480 2.9E+07 A 2/19/19 20 cpm 0.050 4.650 0.1 10.2 2.3E-15 1.6E-13 0.3% 2.6% BS CB AS-136 Perimeter EX # 1222 F PE06 60 2/11/19 9:50 2/11/19 9:50 2/11/19 16:10 380 2.3E+07 A 2/19/19 20 cpm 0.150 3.200 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.1% BS CB AS-137 Perimeter AMS-01 PE01 50 2/12/19 6:05 2/12/19 15:50 585 2.9E+07 A 2/19/19 20 cpm 0.150 4.350 0.4 9.3 6.7E-15 1.4E-13 0.7% 2.4% BS CB AS-138 Perimeter AMS-02 PE02 60 2/12/19 6:00 2/12/19 15:55 595 3.6E+07 A 2/19/19 20 cpm 0.100 3.750 0.3 7.7 3.6E-15 9.7E-14 0.4% 1.6% BS CB AS-139 Perimeter AMS-05 PE03 50 2/12/19 6:10 2/12/19 6:10 600 3.0E+07 A 2/19/19 20 cpm 0.400 3.550 1.2 7.2 1.7E-14 1.1E-13 1.9% 1.8% BS CB AS-140 Perimeter AMS-10 PE04 60 2/12/19 8:30 2/12/19 16:15 600 3.6E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 8.6E-14 0.6% 1.4% BS CB AS-141 Perimeter EX # 1203 C PE06 60 2/12/19 8:30 2/12/19 14:40 370 2.2E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 1.5E-13 1.0% 2.5% BS CB AS-142 Perimeter AMS-01 PE01 50 2/13/19 5:55 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB AS-144 Perimeter AMS-01 PE01 50 2/13/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB	AS-133	Perimeter	AMS-02	PE02	60	2/11/19 7:35	2/11/19 16:35	540	3.2E+07	Α	2/19/19	20	cpm	0.300	4.500	0.9	9.8	1.2E-14	1.4E-13	1.3%	2.3%	BS	CB	
AS-136 Perimeter EX # 1222 F PE06 60 2/11/19 9:50 2/11/19 16:10 380 2.3E+07 A 2/19/19 20 cpm 0.150 3.200 0.4 6.2 8.5E-15 1.2E-13 0.9% 2.1% BS CB AS-137 Perimeter AMS-01 PE01 50 2/12/19 6:05 2/12/19 6:05 585 2.9E+07 A 2/19/19 20 cpm 0.150 4.350 0.4 9.3 6.7E-15 1.4E-13 0.7% 2.4% BS CB AS-138 Perimeter AMS-02 PE02 60 2/12/19 6:00 2/12/19 6:00 2/12/19 15:55 595 3.6E+07 A 2/19/19 20 cpm 0.100 3.750 0.3 7.7 3.6E-15 9.7E-14 0.4% 1.6% BS CB AS-139 Perimeter AMS-05 PE03 50 2/12/19 6:10 2/12/19 16:10 600 3.0E+07 A 2/19/19 20 cpm 0.400 3.550 1.2 7.2 1.7E-14 1.1E-13 1.9% 1.8% BS CB AS-140 Perimeter AMS-10 PE04 60 2/12/19 6:15 2/12/19 16:15 600 3.6E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 8.6E-14 0.6% 1.4% BS CB AS-141 Perimeter EX # 1203 C PE06 60 2/12/19 8:30 2/12/19 14:40 370 2.2E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 1.5E-13 1.0% 2.5% BS CB AS-142 Perimeter AMS-01 PE01 50 2/13/19 5:55 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.150 0.3 8.8 5.0E-15 1.5E-13 1.0% 2.6% BS CB AS-144 Perimeter AMS-02 PE02 60 2/13/19 6:00 2/13/19 14:35 515 3.1E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB AS-144 Perimeter AMS-01 PE01 50 2/14/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.200 3.400 0.6 6.8 1.0E-14 1.2E-13 1.1% 2.0% BS CB	AS-134	Perimeter	AMS-05	PE03	50	2/11/19 7:45	2/11/19 16:20	515	2.6E+07	Α	2/19/19	20	cpm	0.250	4.000	0.7	8.4	1.3E-14	1.5E-13	1.4%	2.4%	BS	СВ	
AS-137 Perimeter AMS-01 PE01 50 2/12/19 6:05 2/12/19 15:50 585 2.9E+07 A 2/19/19 20 cpm 0.150 4.350 0.4 9.3 6.7E-15 1.4E-13 0.7% 2.4% BS CB AS-138 Perimeter AMS-02 PE02 60 2/12/19 6:00 2/12/19 15:55 595 3.6E+07 A 2/19/19 20 cpm 0.100 3.750 0.3 7.7 3.6E-15 9.7E-14 0.4% 1.6% BS CB AS-139 Perimeter AMS-05 PE03 50 2/12/19 6:10 2/12/19 16:10 600 3.0E+07 A 2/19/19 20 cpm 0.400 3.550 1.2 7.2 1.7E-14 1.1E-13 1.9% 1.8% BS CB AS-140 Perimeter AMS-10 PE04 60 2/12/19 6:15 2/12/19 16:15 600 3.6E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 8.6E-14 0.6% 1.4% BS CB AS-141 Perimeter EX # 1203 C PE06 60 2/12/19 8:30 2/12/19 14:40 370 2.2E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 1.5E-13 1.0% 2.5% BS CB AS-142 Perimeter AMS-01 PE01 50 2/13/19 5:55 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.150 0.3 8.8 5.0E-15 1.5E-13 0.6% 2.6% BS CB AS-144 Perimeter AMS-01 PE01 50 2/13/19 6:00 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB AS-144 Perimeter AMS-01 PE01 50 2/14/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.200 3.400 0.6 6.8 1.0E-14 1.2E-13 1.1% 2.0% BS CB	AS-135	Perimeter	AMS-10	PE04	60	2/11/19 8:15	2/11/19 16:15	480	2.9E+07	Α	2/19/19	20	cpm	0.050	4.650	0.1	10.2	2.3E-15	1.6E-13	0.3%	2.6%	BS	СВ	
AS-138 Perimeter AMS-02 PE02 60 2/12/19 6:00 2/12/19 15:55 595 3.6E+07 A 2/19/19 20 cpm 0.100 3.750 0.3 7.7 3.6E-15 9.7E-14 0.4% 1.6% BS CB AS-139 Perimeter AMS-05 PE03 50 2/12/19 6:10 2/12/19 16:10 600 3.0E+07 A 2/19/19 20 cpm 0.400 3.550 1.2 7.2 1.7E-14 1.1E-13 1.9% 1.8% BS CB AS-140 Perimeter AMS-10 PE04 60 2/12/19 6:15 2/12/19 16:15 600 3.6E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 8.6E-14 0.6% 1.4% BS CB AS-141 Perimeter EX # 1203 C PE06 60 2/12/19 8:30 2/12/19 14:40 370 2.2E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 1.5E-13 1.0% 2.5% BS CB AS-142 Perimeter AMS-01 PE01 50 2/13/19 5:55 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.150 0.3 8.8 5.0E-15 1.5E-13 0.6% 2.6% BS CB AS-144 Perimeter AMS-01 PE01 50 2/13/19 6:00 2/13/19 14:35 515 3.1E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB AS-144 Perimeter AMS-01 PE01 50 2/14/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB AS-144 Perimeter AMS-01 PE01 50 2/14/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB AS-144 Perimeter AMS-01 PE01 50 2/14/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.200 3.400 0.6 6.8 1.0E-14 1.2E-13 1.1% 2.0% BS CB	AS-136	Perimeter	EX # 1222 F	PE06	60	2/11/19 9:50	2/11/19 16:10	380	2.3E+07	Α	2/19/19	20	cpm	0.150	3.200	0.4	6.2	8.5E-15	1.2E-13	0.9%	2.1%	BS	СВ	
AS-138 Perimeter AMS-02 PE02 60 2/12/19 6:00 2/12/19 15:55 595 3.6E+07 A 2/19/19 20 cpm 0.100 3.750 0.3 7.7 3.6E-15 9.7E-14 0.4% 1.6% BS CB AS-139 Perimeter AMS-05 PE03 50 2/12/19 6:10 2/12/19 16:10 600 3.0E+07 A 2/19/19 20 cpm 0.400 3.550 1.2 7.2 1.7E-14 1.1E-13 1.9% 1.8% BS CB AS-140 Perimeter AMS-10 PE04 60 2/12/19 6:15 2/12/19 16:15 600 3.6E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 8.6E-14 0.6% 1.4% BS CB AS-141 Perimeter EX # 1203 C PE06 60 2/12/19 8:30 2/12/19 14:40 370 2.2E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 1.5E-13 1.0% 2.5% BS CB AS-142 Perimeter AMS-01 PE01 50 2/13/19 5:55 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.150 0.3 8.8 5.0E-15 1.5E-13 0.6% 2.6% BS CB AS-143 Perimeter AMS-02 PE02 60 2/13/19 6:00 2/13/19 14:35 515 3.1E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB AS-144 Perimeter AMS-01 PE01 50 2/14/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB AS-144 Perimeter AMS-01 PE01 50 2/14/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.200 3.400 0.6 6.8 1.0E-14 1.2E-13 1.1% 2.0% BS CB	AS-137	Perimeter	AMS-01	PE01	50	2/12/19 6:05	2/12/19 15:50	585	2.9E+07	Α	2/19/19	20	cpm	0.150	4.350	0.4	9.3	6.7E-15	1.4E-13	0.7%	2.4%	BS	СВ	
AS-140 Perimeter AMS-10 PE04 60 2/12/19 6:15 2/12/19 16:15 600 3.6E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 8.6E-14 0.6% 1.4% BS CB AS-141 Perimeter EX # 1203 C PE06 60 2/12/19 8:30 2/12/19 14:40 370 2.2E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 1.5E-13 1.0% 2.5% BS CB AS-142 Perimeter AMS-01 PE01 50 2/13/19 5:55 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.150 0.3 8.8 5.0E-15 1.5E-13 0.6% 2.6% BS CB AS-143 Perimeter AMS-02 PE02 60 2/13/19 6:00 2/13/19 14:35 515 3.1E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB AS-144 Perimeter AMS-01 PE01 50 2/14/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.200 3.400 0.6 6.8 1.0E-14 1.2E-13 1.1% 2.0% BS CB	AS-138	Perimeter	AMS-02	PE02	60	2/12/19 6:00	2/12/19 15:55	595	3.6E+07	Α	2/19/19	20	cpm	0.100	3.750	0.3	7.7				1.6%	BS	СВ	
AS-140 Perimeter AMS-10 PE04 60 2/12/19 6:15 2/12/19 16:15 600 3.6E+07 A 2/19/19 20 cpm 0.150 3.450 0.4 6.9 5.4E-15 8.6E-14 0.6% 1.4% BS CB AS-141 Perimeter EX # 1203 C PE06 60 2/12/19 8:30 2/12/19 14:40 370 2.2E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 1.5E-13 1.0% 2.5% BS CB AS-142 Perimeter AMS-01 PE01 50 2/13/19 5:55 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.150 0.3 8.8 5.0E-15 1.5E-13 0.6% 2.6% BS CB AS-143 Perimeter AMS-02 PE02 60 2/13/19 6:00 2/13/19 14:35 515 3.1E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB AS-144 Perimeter AMS-01 PE01 50 2/14/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.200 3.400 0.6 6.8 1.0E-14 1.2E-13 1.1% 2.0% BS CB	AS-139	Perimeter	AMS-05	PE03	50	2/12/19 6:10	2/12/19 16:10	600	3.0E+07	Α	2/19/19	20	cpm	0.400	3.550	1.2	7.2	1.7E-14	1.1E-13	1.9%	1.8%	BS	СВ	
AS-141 Perimeter EX # 1203 C PE06 60 2/12/19 8:30 2/12/19 14:40 370 2.2E+07 A 2/19/19 20 cpm 0.150 3.650 0.4 7.5 8.8E-15 1.5E-13 1.0% 2.5% BS CB AS-142 Perimeter AMS-01 PE01 50 2/13/19 5:55 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.150 0.3 8.8 5.0E-15 1.5E-13 0.6% 2.6% BS CB AS-144 Perimeter AMS-01 PE01 50 2/13/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB AS-144 Perimeter AMS-01 PE01 50 2/14/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.200 3.400 0.6 6.8 1.0E-14 1.2E-13 1.1% 2.0% BS CB	AS-140	Perimeter	AMS-10	PE04	60	2/12/19 6:15	2/12/19 16:15	600	3.6E+07	Α	 			0.150		0.4	6.9				1.4%	BS	СВ	
AS-142 Perimeter AMS-01 PE01 50 2/13/19 5:55 2/13/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.100 4.150 0.3 8.8 5.0E-15 1.5E-13 0.6% 2.6% BS CB AS-143 Perimeter AMS-02 PE02 60 2/13/19 6:00 2/13/19 14:35 515 3.1E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB AS-144 Perimeter AMS-01 PE01 50 2/14/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.200 3.400 0.6 6.8 1.0E-14 1.2E-13 1.1% 2.0% BS CB	AS-141		EX # 1203 C	PE06	60			370		Α	 		· ·		_	0.4	7.5					BS	СВ	
AS-143 Perimeter AMS-02 PE02 60 2/13/19 6:00 2/13/19 14:35 515 3.1E+07 A 2/19/19 20 cpm 0.100 4.100 0.3 8.7 4.2E-15 1.3E-13 0.5% 2.1% BS CB AS-144 Perimeter AMS-01 PE01 50 2/14/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.200 3.400 0.6 6.8 1.0E-14 1.2E-13 1.1% 2.0% BS CB	AS-142	Perimeter	AMS-01		_		1	+	2.6E+07	А	 												СВ	
AS-144 Perimeter AMS-01 PE01 50 2/14/19 5:55 2/14/19 14:30 515 2.6E+07 A 2/19/19 20 cpm 0.200 3.400 0.6 6.8 1.0E-14 1.2E-13 1.1% 2.0% BS CB							<u> </u>			А					_									
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