Appendix E

BWI Marshall Airport

Planning Documentation

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APPENDIX E: BWI Marshall Airport Planning Documentation

The following BWI Marshall Airport planning documents are included in this appendix:

- Attachment 1: FAA Conditionally Approved April 2015 ALP
- Attachment 2: *Airfield Lighting Vault (ALV) Relocation Conceptual Planning Study*, AECOM and ADCI, MAA-AE-11-005 (May 2013).
- Attachment 3: *Existing VOR Facility and Proposed Taxiways Analysis Technical Memorandum*, AECOM (February 2016), and FAA Memorandum for "Analysis of the BAL VORTAC in Baltimore, MD," dated August 24, 2016.
- Attachment 4: FAA Correspondence for Airspace Review of the Proposed Airline Maintenance Facility dated November 22, 2016 and October 24, 2017.
- Attachment 5: 2017 Re-Evaluation of the 1998 EA for the Expansion of the Midfield Cargo Facility Ramp at BWI Marshall Airport (2017 Re-Evaluation).
- Attachment 6: 2018 Written Re-Evaluation and Record of Decision (WR/ROD) of the 1998 EA for the Expansion of the Midfield Cargo Facility Ramp at BWI Marshall Airport and 2018 Midfield Cargo Technical Report.
- Attachment 7: MAA Regional Aircraft Rescue and Firefighting (ARFF) Training Facility Program Definition Document, MAA-AE-14-002 (August 2018).

Attachment 1:

FAA Conditionally Approved April 2015 ALP

CC: Shawn
Wayne

U. S. Department
Of Transportation

**Federal Aviation
Administration**

RECEIVED
APR 9 2015

WASHINGTON AIRPORTS DISTRICT OFFICE
23723 Air Freight Lane, Suite 210
Dulles, Virginia 20166
Telephone: 703/661-1359 Fax: 703/661-1370

April 2, 2015

RECEIVED
APR 13 2015
MD AVIATION ADMINISTRATION
PLANNING & ENVIRONMENTAL SERVICES

Mr. Paul Shank, P.E.
Chief Engineer
Maryland Aviation Administration
P.O. Box 8766
BWI Airport, Maryland 21240

Reference: Baltimore-Washington International Airport
Interim Airport Layout Plan (ALP)

Dear Mr. Shank:

The proposed interim Airport Layout Plan (ALP) submitted November 2014 consisting of sheet 3 for the Baltimore-Washington International Airport is hereby approved. This ALP included changes to primarily reflect as built Runway Safety Area (RSA), LOI funded taxiway improvements, and minor terminal security improvement projects. The limiting conditions in our previous ALP approval letters remain in effect, most notably that the FAA has not concurred with the proposed runway 10R/28L. The review process included coordination with other FAA divisions through the airspace process (case number 2014-AEA-1269-NRA).

The contents of the ALP revision do not necessarily reflect the official views or policies of the FAA. Approval of the ALP by the FAA does not in any way constitute a commitment on the part of the United States to participate in any development depicted therein. No new modifications to FAA design standards are noted on this revision to the ALP.

All proposed development identified on the ALP requires environmental review and shall not be undertaken without prior written environmental approval by the FAA.

You are also reminded of your continuing responsibility to keep your ALP current at all times. Each revision must be submitted to this office for review and approval. Your ALP should be reviewed at regular intervals and updated as necessary to include this revision and any other previous revisions.

FAA's approval of this ALP represents acceptance of the location of the facilities depicted. Prior to construction, the airport owner is required to resubmit for approval the final locations, heights, and exterior finishes of structures if they have changed from that

previously presented. FAA's concerns are obstructions, impact on electronic aids and adverse effect of controller view of aircraft approaches and ground movements, which could adversely effect the safety, efficiency or utility of the airport.

Please contact me if you have any questions concerning this approval.

Sincerely,

Thomas A. Priscilla, Jr.

Thomas A. Priscilla, Jr.
Washington Airports District Office

Federal Aviation Administration

Memorandum

Date: November 21, 2014

To: AEA-620 (Felix), Atlanta FPO (Lebar), AT-OEG (Dull), FS (Aviles), AJW-E24B (Loverde), AT-OSG (Fowler), ATCT (Proudfoot)

Prepared by: Washington ADO, Tom Priscilla

Subject: 2014-AEA-1269-NRA

Baltimore-Washington International Airport (BWI)

Updated Airport Layout Plan (ALP)

The Maryland Aviation Administration (Sponsor), owner and operator of BWI located in Baltimore, Maryland, has updated the approved Airport Layout Plan (ALP). The first set of changes is to reflect the construction of previously coordinated projects:

(1) Runway 10/28, 15L/33R, and 15R/33L safety area improvements.
(2) Runway 10/28 and 15R/33L rehabilitations
(3) Various taxiway improvements to comply with Advisory Circular requirements
    a. Taxiway "D"
    b. Taxiway "U"
(4) Pier B/C Connector
(5) Pier C/D Connector
(6) Pier D/E Connector
(7) Pier E 2 gate extension
(8) ATO ATCT site 2A

The second set of changes is to reflect the proposed projects:

(9) Relocation of the ARFF training facility (P45)
(10) RON Apron adjacent to ARFF building (P-10)
(11) Maintenance complex buildings P30, P31, P32, and P33 south of proposed runway 10R/28L
(12) Aircraft maintenance hangar P11 north of runway 10
(13) Reconfigured taxiway "F" into dual parallel taxiway system serving runway 10
(14) Various taxiway improvements to comply with Advisory Circular requirements
    a. Taxiway "H"
    b. Taxiway "F"
    c. Taxiway "U3"
    d. Runway 15L/33R taxiway system

5330 ALP
BWI

Federal Aviation Administration

« OE/AAA

Case Data | Part 77 | Analysis | Generate Letters | Documents | Corresp Archive | Div Responses

Study (ASN): 2014-AEA-1269-NRA
Rush: ☐
Prior Study:
NRA
Project:
Update
Status: NEW
MapIt

Notice Of: Alteration
Duration: None
Months:
Begin:
Days:
End:

Received: 11/21/2014
Entered: 11/21/2014
Del-to-Prop:

Sponsor Representative

Sponsor:* maryland aviation administration
Attention Of: shawn ames
Address 1:* po box 8766
Address 2:
City:* bwi airport
State:* MD
Postal Code:* 21240
Country:* United States
Telephone:* (410) 859-7089
Ext:
Fax:
E-mail:

Representative:*
Attention Of:
Address 1:*
Address 2:
City:*
State:*
Postal Code:*
Country:* United States
Telephone:*
Ext:
Fax:
E-mail:
Note:* *are required if Representative is modified.*

State:* MD
Loc ID:* BWI (NASR) BALTIMORE, BALTIMORE/
Airport: BALTIMORE/WASHINGTON INTL TH
City: BALTIMORE

Component Type:* PLANNING(PL)
Development Type:* PLANNING - Airport Layout Plan
Other Desc:

	Proposed
SE:*	141
AGL:*	1
AMSL:*	142

Latitude:* 39 - 10 - 32.62 N
Longitude:* 76 - 40 - 08.37 W
Datum:* NAD83
Original ☑ Yes
Accuracy: 4D
Get ARP Data
+/- View Quick Map

ADO Contact:* Tom A. Priscilla
Telephone: (703) 661-1359
Ext:
Office:* WASHADO

SBG Contact:
Telephone:

Submitted To

AT-OEG:	ADO:	TO:
FP:	FS:	FM:
USAF:	USA:	USN:
AT-OSG:	ATCT:	SBG:
DHS:		
AP Sponsor:	AP(139):	CASFO:
FSDO:	SMO:	Other:

Division(s) Not Responded

Remarks:*

Describe/Remarks:

update to ALP. due to java issue, memo describing propsoed changes cannot be attached but is included with drawing mailed out separately.

Add View

Frequency/ERP
Run Civilian Part 77 Report
Run Military Part 77 Report

Case Popups: Saved Map | Part 77 Summary | Case Data Quick View | Div Resp | POS Report | Design Surfaces Report | Nearest Airport | Circle Search

Record 1 of 1

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EXISTING FACILITY LEGEND

FACILITY No.	FACILITY DESCRIPTION	TOP ELEV. (MSL)
100	PASSENGER TERMINAL BLDG.	238.1
100A	A.T.C.T. 258 MSL F.F.	281
D-101	FIELD LIGHTING VAULT	157.9
D-101A	GLYCOL PUMP CONTROL BLDG	153.7
D-102	CARGO BUILDING "F"	210.6
D-103	GAS STATION	194.7
D-104	TRITURATOR BUILDING (1)	171.8
105	ARFF STATION	176.3
105A	ARFF TRAINING FACILITY	161.5
106	CAR RENTAL ADMIN. BLDG/MAINT	171.5
106A	CAR RENTAL ADMIN. BLDG/MAINT	166.5
D-107	AIRLINE CARGO BUILDING	186.7
D-108	GATE G GUARD BUILDING	168.9
109	GATE A GUARD BUILDING	149.9
D-111	F.B.O. STORAGE BUILDING	187.3
D-112	AIRLINE CARGO BUILDING	186.8
D-113	MAA STORAGE BUILDING	193.9
114	CENTRAL UTILITY PLANT (CUP)	188.6
D-115	MAA WAREHOUSE / SNOW TEAM DORM	178.9
D-116	FIELD MAINTENANCE SHOP	180.1
D-117	EQUIPMENT SHED	171.9
D-118	EQUIPMENT SHED	171.3
D-119	STORAGE SHED	167.6
D-120	FIELD MAINTENANCE OFFICES	182.3
D-121	MAA AUTO MAINT. BUILDING	170.8
D-122	CANINE FACILITY	164.2
D-123	EQUIPMENT MAINT. BUILDING	172.2
D-124	CARGO BUILDING "A"	187.0
D-125	CARGO BUILDING "B"	187.3
D-126	CARGO BUILDING "C"	187.9
D-127	CARGO BUILDING "D"	180.4
D-128	CARGO BUILDING "E"	190.6
D-129	MAA MAINTENANCE BUILDING	174.2
131	MES TEST LAB	160.4
131A	MES TEST LAB	160.3
132	FUEL FARM PUMP STATION	157.7
132A	PUMP STATION STORAGE BLDG.	156.9
D-133	SHERATON HOTEL COMPLEX	190.4
134	F.B.O. AUTO MAINT. BUILDING	168.4
D-135	SALT DOME	188.5
D-136	STORAGE BUILDING	174.6
D-137	MAA MAINTENANCE STORAGE SHED	173.4
138B-D	BUS/JMO STAGING AREA	N/A
140	BUS MAINTENANCE FACILITY	171.6
141	T-HANGAR - G.A. RAMP	147.4
142	T-HANGAR - G.A. RAMP	146.9
143	T-HANGAR - G.A. RAMP	146.4
144	F.B.O. STORAGE HANGAR/G.A. RAMP	170.2
145	GENERAL AVIATION TERMINAL	150.1
146	NORTHROP-GRUMMAN HANGAR	171.5
147	BWI AMTRAK / MARC STATION	86.4
D-148	TAXI / BUS STAGING AREA	173.8
D-149	AIRLINE COMMISSARY	182.0
150	AIRLINE COMMISSARY	184.4
151	CAR RENTAL ADMIN. BLDG/MAINT	171.0
151A	CAR RENTAL ADMIN. BLDG/MAINT	166.4
152	CAR RENTAL ADMIN. BLDG/MAINT	171.4
152A	CAR RENTAL ADMIN. BLDG/MAINT	166.7
153A-B	CAR RENTAL ADMIN. BLDG/MAINT	166.7
154	CNG FUEL FACILITY	174.0
155	MAA KAUFFMAN BUILDING	112.5
D-156	EQUIPMENT SHED	174.4
159	CAR RENTAL ADMIN. BUILDING	142.2
160	HOURLY GARAGE	213.4
161	PARKING ADMIN. BUILDING	186.8
163	FOAM BUILDING	157.0
164	GLYCOL PUMP CONTROL BLDG.	174.6
165	BENSON+HAMMOND HOUSE	154.7
166	DAILY GARAGE	258
D-167	HUDSON GENERAL BUS STORAGE	172.6
168	OPERATIONS AND MAINTENANCE BLDG	170.0
169	AMTRAK PARKING GARAGE 1	161.5
169A	AMTRAK PARKING GARAGE 2	161.5
D-170	DEICING CONTROL BUILDING (RW 15R)	160.7
171	DEICING CONTROL BUILDING (GA RAMP)	138.7
172	AIRPORT MAINTENANCE ADMIN.	142.6
172A	800 MHz ANTENNA	228
D-173	GLYCOL STORAGE BUILDING	143.3
174	MES STORAGE BUILDING	125.0
175	MES STORAGE BUILDING	125.0
176	MIDFIELD CARGO "G"	169.2
179	CONSOLIDATED RENTAL CAR PARKING GARAGE	171.5
180	CONSOLIDATED RENTAL CAR FACILITY	131.4
180A	CAR RENTAL STORAGE BUILDING	131.4
181	G.A. HANGAR NO. 1	171.4
182	G.A. HANGAR NO. 2	171.0
D-183	TRITURATOR BUILDING (2)	157.7
184	FBO EXECUTIVE TERMINAL	182.1
D-185	SUBSTATION	147.0
186A	LIGHT RAIL SUBSTATION	162.9
186B	LIGHT RAIL SUBSTATION	176.4
D-187	TRITURATOR BUILDING (3)	171.8
188	CAR RENTAL ADMIN. BUILDING	138.7
191A-D	NORTH SUBSTATION	187.7
192A/B	SOUTH SUBSTATION	140.2
D-265	BALE SX TRANSMITTER/ROTATING BEACON	175.4
D-271	RTR BUILDINGS	182.8

ASDEX - RU SITES

FACILITY No.	NEAREST TO	TOP ELEV. (MSL)
* RU-01	EAST SIDE OF ATCT	272
RU-02	UPS CARGO FACILITY	187
RU-03	GREEN FIELD @ 33R LOC.	173
RU-04	GREENFIELD @ GENERAL AVIATION	160
RU-05	GREENFIELD @ RW 33R MALSR	164
RU-06	GREENFIELD @ RW 28	173
RU-07	GREENFIELD @ BIKE PATH	174
RU-08	GREENFIELD @ RW 33L	174
RU-09	GREENFIELD NEAR RW 4 END	214
RU-10	RTR TRANSMITTER SITE	215
RU-11	RW 10 GLIDE SLOPE	188
RU-12	GREENFIELD @ WEST OF RW 10 END	177
RU-13	GREENFIELD @ RW 10 ALSF	175
RU-14	AT ASR-9	255
RU-15	GREENFIELD @ ELKRIDGE LANDING RD	261
RU-16	RTR RECEIVER SITE	206
* RU-17	WEST SITE OF ATCT	272
* RU-X1	EAST SIDE OF ATCT	272
* RU-X2	WEST SIDE OF ATCT	272
RU-X3	RTR TRANSMITTER	215

APPROVED ALP/EA PROGRAM

FACILITY No.	FACILITY DESCRIPTION	TYPE / USE	ESTIMATED TOP ELEV. (MSL)
P5	INTERNATIONAL TERMINAL BAG SCREENING IMPROVEMENTS	PASSENGER TERMINAL	210
P6	TERMINAL AND CONCOURSE EXPANSIONS	PASSENGER TERMINAL	238
P36	HOTEL AND PARKING	LANDSIDE SUPPORT	266
P37	HOURLY GARAGE EXPANSION	PARKING	240

FUTURE FACILITY LEGEND - PHASE 1

FACILITY No.	FACILITY DESCRIPTION	TYPE / USE	ESTIMATED TOP ELEV. (MSL)
P3	CONCOURSE E (2-GATE EXPANSION)	PASSENGER TERMINAL	210
P4	CONCOURSE E (2-GATE EXPANSION)	PASSENGER TERMINAL	210
P7	SECOND FBO	TERMINAL	170
P10	ARFF EXPANSION	AVIATION SUPPORT	177
P11	AIRCRAFT MAINTENANCE FACILITY	AIRCRAFT MAINTENANCE	235
P12	AIRCRAFT MAINTENANCE FACILITY	AIRCRAFT MAINTENANCE	210
P13	DEICING TANKS AND ACCESS ROAD	AVIATION SUPPORT	206
P14	AIRFIELD LIGHTING VAULT	AVIATION SUPPORT	172
P16	AIRPORT TRAFFIC CONTROL TOWER	AVIATION SUPPORT	376
P24	TERMINAL RESPONSE FIRE STATION	AVIATION SUPPORT	175
P30	SNOW EQUIPMENT STORAGE	AVIATION SUPPORT	187
P40	GLYCOL STORAGE/TRUCK STAGING	AVIATION SUPPORT	-
P41	SNOW DUMP	MAINTENANCE	-
P43	TRITURATOR	AVIATION SUPPORT	-
P45	FIRE TRAINING FACILITY	AVIATION SUPPORT	155
P46	VEHICLE SERVICE STATION	LANDSIDE SUPPORT	120
P48	CONCOURSE D'(EXPANSION (2 GATE)	PASSENGER TERMINAL	175
P50	RELOCATE CHECKPOINT J	AVIATION SUPPORT	145
P148	TAXICAB ADMINISTRATIVE BUILDING	LANDSIDE SUPPORT	175

FUTURE FACILITY LEGEND - PHASE 3

FACILITY No.	FACILITY DESCRIPTION	TYPE / USE	ESTIMATED TOP ELEV. (MSL)
P2	F - CONCOURSE F (14 GATES)	PASSENGER TERMINAL	220
P17	CONCESSION SCREENING	AVIATION SUPPORT	-
P18	FREIGHT CARGO	AVIATION SUPPORT	-
P19	BELLY CARGO	AVIATION SUPPORT	-
P20	FREIGHT CARGO	AVIATION SUPPORT	-
P21	FREIGHT CARGO	AVIATION SUPPORT	-
P25	TRUCK STAGING	GROUND TRANSPORATION	-
P31	MAC BUILDING	ADMINISTRATION	-
P44	AIRPORT PEOPLE MOVER MAINTENANCE FACILITY	GROUND TRANSPORTATION MX	-
P47	LIGHT RAIL STATION	GROUND TRANSPORTATION	-

APRON DIMENSIONS

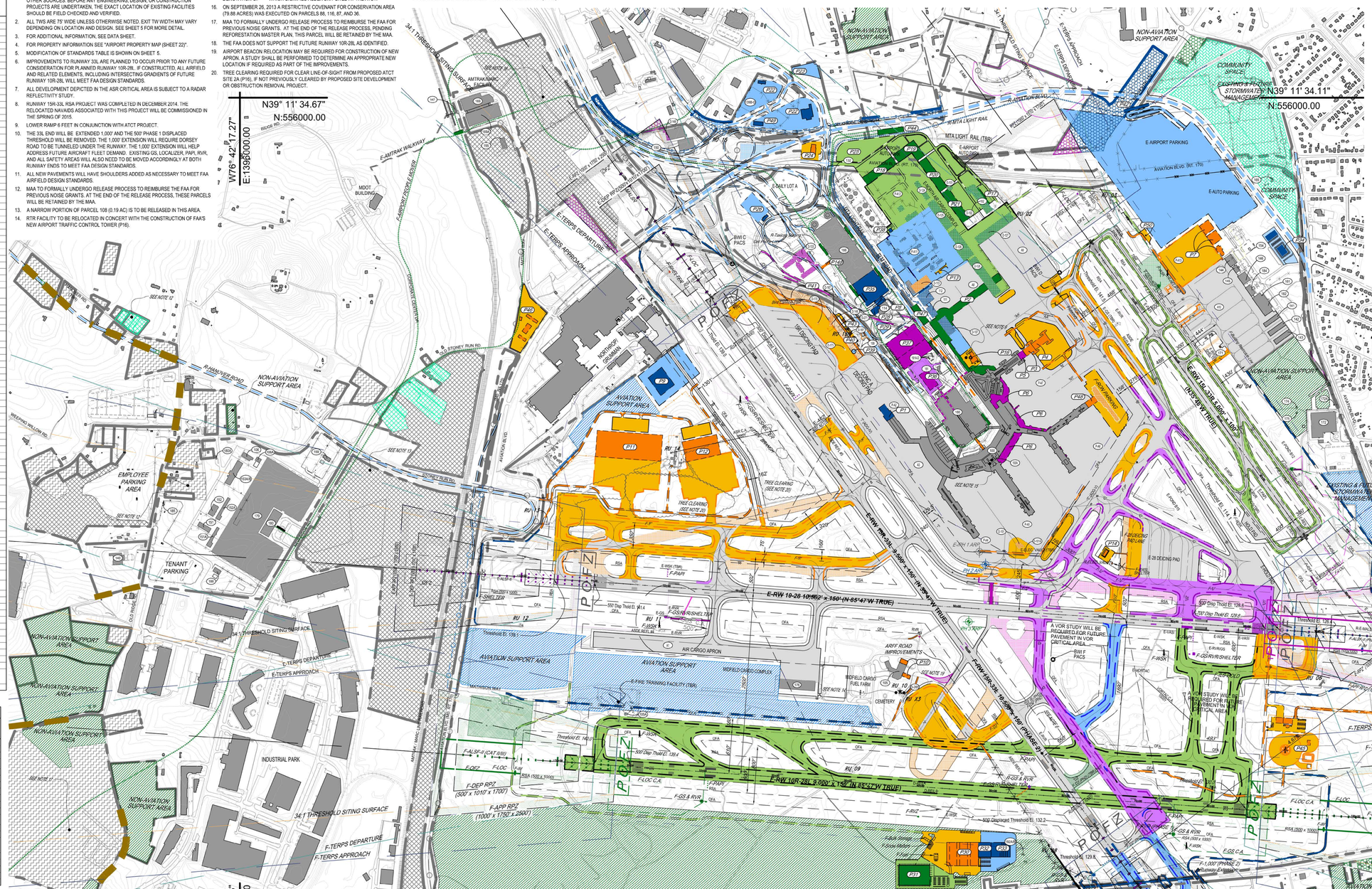
APRON No.	APRON SQ. FT.	LOCATION
A1	± 786,000	MIDFIELD CARGO
P-A2	± 400,000	CONCOURSE A
A3	± 211,000	TERMINAL A/B
P-A4	± 580,000	CONCOURSE B
P-A5	± 943,000	CONCOURSE C
P-A6	± 1,664,000	CONCOURSE D
P-A7	± 1,059,000	CONCOURSE E
A8	± 770,000	NORTH AIR CARGO
A9	± 547,000	NORTH AIR CARGO
A10	± 1,037,000	GA
P-A11	± 644,000	NORTH AIR CARGO
P-A12	± 1,152,000	NORTH AIR CARGO
P-A13	±403,000	GA

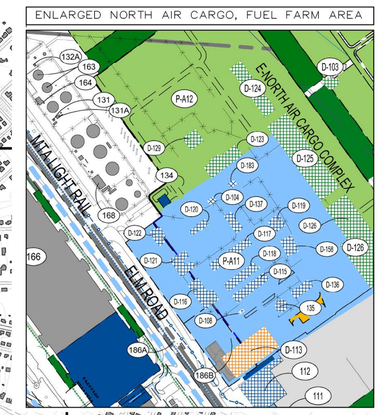
FUTURE FACILITY LEGEND - PHASE 2

FACILITY No.	FACILITY DESCRIPTION	TYPE / USE	ESTIMATED TOP ELEV. (MSL)
P1	CONCOURSE "A" EXTENSION	PASSENGER TERMINAL	206
P6	CENTRAL UTILITY PLANT EXPANSION	UTILITIES	189
P9	NORTHROP-GRUMMAN HANGAR	GA TERMINALS	151.5
P22	LIMO/BUS/SHARED RIDE/STAGING	GROUND TRANSPORTATION	-
P23	GAS STATION	LANDSIDE SUPPORT	-
P26	TAXICAB STAGING	GROUND TRANSPORTATION	-
P28	CO-GEN & CHILLER REPLACEMENT	UTILITIES	-
P29	RELOCATED SUBSTATIONS	UTILITIES	-
P32	MAINTENANCE MAIN BUILDING	MAINTENANCE	-
P33	MAINTENANCE BAY/STORAGE	MAINTENANCE	-
P34	POLICE STATION	EMERGENCY SERVICES	-
P35	DAILY GARAGE EXPANSION	PARKING	-
P38	TRITURATOR	AVIATION SUPPORT	-
P39	PUMP STATIONS	UTILITIES	-
P42	LIGHT RAIL STATION	GROUND TRANSPORTATION	-
P49	FUELING STATION	LANDSIDE SUPPORT	180

NOTES:

1. THE DEPICTED AIRPORT LAYOUT PLAN IS BASED ON GIS TOPOGRAPHY DATA AND OTHER SOURCES. BEFORE ANY ENGINEERING, DESIGN, OR CONSTRUCTION PROJECTS ARE UNDERTAKEN, THE EXACT LOCATION OF EXISTING FACILITIES SHOULD BE FIELD CHECKED AND VERIFIED.
2. ALL TWS ARE 75' WIDE UNLESS OTHERWISE NOTED. EXIT TW WIDTH MAY VARY DEPENDING ON LOCATION AND DESIGN. SEE SHEET 5 FOR MORE DETAIL.
3. FOR ADDITIONAL INFORMATION, SEE DATA SHEET.
4. FOR PROPERTY INFORMATION SEE "AIRPORT PROPERTY MAP (SHEET 22)".
5. MODIFICATION OF STANDARDS TABLE IS SHOWN ON SHEET 5.
6. IMPROVEMENTS TO RUNWAY 33L ARE PLANNED TO OCCUR PRIOR TO ANY FUTURE CONSIDERATION FOR PLANNED RUNWAY 10R-28L. IF CONSTRUCTED, ALL AIRFIELD AND RELATED ELEMENTS, INCLUDING INTERSECTING GRADIENTS OF FUTURE RUNWAY 10R-28L WILL MEET FAA DESIGN STANDARDS.
7. ALL DEVELOPMENT DEPICTED IN THE ASR CRITICAL AREA IS SUBJECT TO A RADAR REFLECTIVITY STUDY.
8. RUNWAY 15R-33L RSA PROJECT WAS COMPLETED IN DECEMBER 2014. THE RELOCATED NAVAIDS ASSOCIATED WITH THIS PROJECT WILL BE COMMISSIONED IN THE SPRING OF 2015.
9. LOWER RAMP 6 FEET IN CONJUNCTION WITH ATCT PROJECT.
10. THE 33L END WILL BE EXTENDED 1,000' AND THE NEW PHASE 1 DISPLACED THRESHOLD WILL BE REMOVED. THE 1,000' EXTENSION WILL REQUIRE DORSEY ROAD TO BE TUNNELED UNDER THE RUNWAY. THE 1,000' EXTENSION WILL HELP ADDRESS FUTURE AIRCRAFT FLEET DEMAND. EXISTING GS, LOCALIZER, PAPI, RVR, AND ALL SAFETY AREAS WILL ALSO NEED TO BE MOVED ACCORDINGLY AT BOTH RUNWAY ENDS TO MEET FAA DESIGN STANDARDS.
11. ALL NEW PAVEMENTS WILL HAVE SHOULDERS ADDED AS NECESSARY TO MEET FAA AIRFIELD DESIGN STANDARDS.
12. MAA TO FORMALLY UNDERGO RELEASE PROCESS TO REIMBURSE THE FAA FOR PREVIOUS NOISE GRANTS. AT THE END OF THE RELEASE PROCESS, THESE PARCELS WILL BE RETAINED BY THE MAA.
13. A NARROW PORTION OF PARCEL 108 (0.19 AC) IS TO BE RELEASED IN THIS AREA.
14. RTR FACILITY TO BE RELOCATED IN CONCERT WITH THE CONSTRUCTION OF FAA'S NEW AIRPORT TRAFFIC CONTROL TOWER (P16).
15. MULTIPLE ASDEX UNITS ARE COLLOCATED AT THE ATCT. SEE ASDEX TABLE FOR DENOTATION OF " * " WHICH SIGNIFIES ASDEX UNIT SITED AT THE ATCT.
16. ON SEPTEMBER 26, 2013 A RESTRICTIVE COVENANT FOR CONSERVATION AREA (79.88 ACRES) WAS EXECUTED ON PARCELS 88, 116, 87, AND 36.
17. MAA TO FORMALLY UNDERGO RELEASE PROCESS TO REIMBURSE THE FAA FOR PREVIOUS NOISE GRANTS. AT THE END OF THE RELEASE PROCESS, PENDING REFORESTATION MASTER PLAN, THIS PARCEL WILL BE RETAINED BY THE MAA.
18. THE FAA DOES NOT SUPPORT THE FUTURE RUNWAY 10R-28L AS IDENTIFIED.
19. AIRPORT BEACON RELOCATION MAY BE REQUIRED FOR CONSTRUCTION OF NEW APRON. A STUDY SHALL BE PERFORMED TO DETERMINE AN APPROPRIATE NEW LOCATION IF REQUIRED AS PART OF THE IMPROVEMENTS.
20. TREE CLEARING REQUIRED FOR CLEAR LINE-OF-SIGHT FROM PROPOSED ATCT SITE 2A (P16). IF NOT PREVIOUSLY CLEARED BY PROPOSED SITE DEVELOPMENT OR OBSTRUCTION REMOVAL PROJECT.
21. ALL NEW TAXIWAY GEOMETRY WILL MEET THE CURRENT FAA ADVISORY CIRCULAR DESIGN STANDARD FOR TAXIWAY EDGE SAFETY MARGINS (TESM).





DRAWING LEGEND

ITEM	EXISTING
BIRD CANNONS	
GROUND CONTOUR	
15L-33R NAVAIDS GRADING (PHASE 3)	
AIRPORT PROPERTY LINE	
RDS / PAVEMENT	
BUILDINGS	
AIRFIELD PAVEMENT	
SECURITY FENCE	
NAVAIDS	
BEACON	
AIRPORT REFERENCE POINT	
SURFACE DRAINAGE	
CREEK / STREAM / WATER AREA	
HIKER / BIKER TRAIL	
EXISTING ENVIRONMENTAL MITIGATION	
COMMUNITY SPACE	
PACS / SACS	
ASDE-X SITES	RU xx
RESERVED FOR FUTURE ENVIRONMENTAL MITIGATION SUBJECT TO FAA CONCURRENCE	
RIGHT-OF-WAY PROPERTY RELEASE	
PROPERTY RELEASE	
DIMENSIONS EXISTING	400'
DIMENSIONS FUTURE	400'
AIRPORT AUTO PARK TO BE REMOVED	

TERMINOLOGY LEGEND

ALSF	APPROACH LIGHTING SYSTEM W/SEQUENCED FLASHING LIGHTS
APP	APPROACH
ARP	AIRPORT REFERENCE POINT
ASR	AIRPORT SURVEILLANCE RADAR
CA	CRITICAL AREA
TBO	TO BE DEMOLISHED
DEP	DEPARTURE
DER	DEPARTURE END OF RUNWAY
DISP THOLD	DISPLACED THRESHOLD
E-	EXISTING
EL	ELEVATION
F-	FUTURE
GA	GENERAL AVIATION
GS	GLIDE SLOPE
LOC	LOCALIZER
MALS	MEDIUM INTENSITY APPROACH LIGHT SYSTEM
MALSR	MED. INTENSITY APPROACH LIGHT SYSTEM - INCLUDING R/W ALIGNMENT INDICATOR LIGHTS
OFA	OBJECT FREE AREA
OFZ	OBJECT FREE ZONE
PAPI	PRECISION APPROACH PATH INDICATOR
PH	PHASE
RPZ	RUNWAY PROTECTION ZONE
RSA	RUNWAY SAFETY AREA
POFZ	PRECISION OBSTACLE FREE ZONE
MM	MIDDLE MARKER
WSK	WIND SOCK
R-	RELOCATED
RVR	RUNWAY VISUAL RANGE
RVZ	RUNWAY VISIBILITY ZONE
THOLD	THRESHOLD
TBR	TO BE RELOCATED
VASI	VISUAL APPROACH SLOPE INDICATOR

PHASING LEGEND

	Approved ALP/Env Finding/ Construction in Progress	PHASE 1 (2016-2020)	PHASE 2 (2021-2025)	PHASE 3 (2026-ULT)
PAVEMENT IMPROVEMENTS				
PROPOSED STRUCTURES				
PROPOSED PROJECT AREAS				
PROPERTY INTEREST				
DEMOLITION				
VEHICLE ROADWAY IMPROVEMENTS				
PEDESTRIAN WALKWAY				
HIKER/BIKER TRAIL RELOCATION				
ROADWAY IMPROVEMENTS				
LIGHT RAIL				
PROPOSED TUNNEL				
AIRPORT PEOPLE MOVER ALIGNMENT				

FAA DISCLAIMER:

1. THE FAA'S APPROVAL OF THIS AIRPORT LAYOUT PLAN (ALP) REPRESENTS ACCEPTANCE OF THE GENERAL LOCATION OF FUTURE FACILITIES DEPICTED. DURING THE PRELIMINARY DESIGN PHASE, THE AIRPORT OWNER SHALL SUBMIT, FOR FAA APPROVAL: FINAL LOCATIONS, HEIGHTS, AND EXTERIOR FINISH OF ALL STRUCTURES. THE FAA'S CONCERNS ARE OBSTRUCTIONS, IMPACT ON ELECTRONIC FACILITIES, AND ADVERSE IMPACT ON CONTROLLER VIEW OF AIRCRAFT APPROACHES AND GROUND MOVEMENT AREAS WHICH COULD ADVERSELY AFFECT THE SAFETY, EFFICIENCY, OR UTILITY OF THE AIRPORT.

APPROVALS

PAUL J. WIEDEFELD, A.A.E.
Executive Director/CEO
Maryland Aviation Administration

APPROVED _____ DATE _____

MATTHEW J. THYS, Manager
Washington Airports District Office

APPROVED _____ DATE _____

SOURCES:

1. Topography and planimetrics are based on the compilation of aerial photography taken and interpolated by both Airborne Solutions International LLC (November 2005) and Keystone Aerial Surveys, Inc. (August 2011).
2. Baltimore–Washington International Airport MAA O.P.E.S.

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MARYLAND AVIATION ADMINISTRATION
OFFICE OF PLANNING and ENVIRONMENTAL SERVICES (OPES)

JOB DESCRIPTION
AIRPORT LAYOUT PLAN

SHEET TITLE
FUTURE AIRPORT LAYOUT PLAN

DATE	BY	REVISIONS

DRAFT

DESIGNED	DRAWN	CHECKED	APPROVED
KMF	JMW	SPA	WBS

AECOM ADCI

SCALE	CONTR. NO.
AS SHOWN	MAA-AE-11-005
DATE JANUARY 2015	SHEET 3

P:\Aviation\BWI\602154416 MAA On-Call Planning\Tasks\Task 030 – BWI ALP Update\900-WorkingDocs-CAD\920 Sheets\Sheet_3_ALP FUTURE.dwg Color Table: BWI ALP 2010.ctb
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Attachment 2:

Airfield Lighting Vault (ALV) Relocation

Conceptual Planning Study

Final Report - May 2013

(AECOM and ADCI, MAA-AE-11-005, Task 019)

BALTIMORE/WASHINGTON INTERNATIONAL Thurgood Marshall AIRPORT

Airfield Lighting Vault (ALV) Relocation Conceptual Planning Study Final Report

MAA-AE-11-005
Task 019

Prepared for:

Maryland Aviation Administration

Prepared by:

AECOM

ADCI
AIRPORT DESIGN CONSULTANTS INC

May 2013

TABLE OF CONTENTS

Section 1: Utility Assessment, Geometrics, and Splice Points 4
Study Introduction 4
Utility Assessment Introduction and Overview 4
Existing Airfield Lighting Vault (ALV) Conditions 5
FAA Advisory Circular Impacts to Proposed ALV location 5
Existing Utilities Assessment 9
Proposed Utilities Assessment 9
Surface and Sub-Surface Geometry 12
Demarcation and Splicing Locations 17
ALV Utilities 17
Findings - Section 1 20
Section 2: Preliminary Phasing and Implementation Plan 21
Introduction 21
Phasing Overview 21
General Phasing 21
Overall Phase Schedule 23
Phasing Discussions 24
Preliminary Implementation Plan 30
Findings - Section 2 32
Section 3: Site Access and ATCT Line-of-Sight Analysis 33
Introduction 33
Site Access 33
Analysis 33
Analysis Summary 35
Access Recommendation 36
ATCT Line of Sight 36
Findings – Section 3 36
Phase 1 Analysis Summary 39

FIGURES

Exhibit 1: Existing Conditions 6
Exhibit 2: Relocated Vault – ALP Location (2015 Conditions) 7
Exhibit 3: Relocated Vault – Recommended Location 8
Exhibit 4: Existing Airfield Lighting Circuits 10
Exhibit 5: Proposed Runway 10-28 Utility Routing 13
Exhibit 6: Proposed Runway 15L-33R Utility Routing 14
Exhibit 7: Proposed Runway 15R-33L Utility Routing 15
Exhibit 8: Airfield Lighting Circuits Using 2015 Geometry 16
Exhibit 9: Demarcation and Splicing - ALS 18
Exhibit 10: Demarcation and Splicing – Data/Comm and FAA 19
Exhibit 11: Proposed ALV Program Elements 22
Exhibit 12: Phase 0 Underground Improvements and Connection Points 25
Exhibit 13: Proposed ALV Structure and Equipment Layout 27
Exhibit 14: Proposed ALV Footprint 28
Exhibit 15: Preliminary Phasing Schedule 31
Exhibit 16: Potential ALV Access Routes 34
Exhibit 17: Proposed ATCT Site 2A Shadow Study 37
Exhibit 18: Proposed ATCT Site 12 Shadow Study 38

APPENDICES

Appendix A: Technical Memorandum #1 ..... A-1
Appendix B: Tunnel Program Cost Estimate B-1

Section 1: Utility Assessment, Geometrics, and Splice Points

Study Introduction

During the Master Plan Update of 2010, the Maryland Aviation Administration (MAA) identified a new location for the existing Airfield Lighting Vault (ALV) at Baltimore Washington International Thurgood Marshall Airport (BWI Marshall), clear of the terminal apron area. In 2012, the MAA assigned the AECOM team to perform an in-depth evaluation of the issues and impacts associated with the relocation of the new ALV under their comprehensive facilities planning on-call contract.

This assessment was carried out through a series of subtasks for which interim technical memoranda were published. This report aggregates those technical memoranda into this Phase 1 Report – ALV Relocation Conceptual Planning Study. The report identifies all of the pertinent issues associated with the ALV relocation and recommends potential solutions to these issues. It also includes a conceptual building footprint, a preliminary construction schedule and phasing plan, a site access plan, and an Airport Traffic Control Tower (ATCT) line-of-sight analysis.

The first technical memorandum, TM-1, Justification Narrative and Existing Data Collection and Review, is included as Appendix A to this report.

Utility Assessment Introduction and Overview

This section addresses all utility service connections for the existing ALV. The primary findings of this section are:

- Existing Airfield Lighting System (ALS) infrastructure was confirmed
- Proximity of ALS homeruns to the proposed ALV site were identified
- Proposed ductbank alignments within the work areas of both the ongoing RSA improvement projects and the FAA Engineering Brief 75 (EB-75) program were identified and evaluated to determine if the locations supported the proposed ALV location
- Potential impacts from the new ductbank alignments on the proposed pavement geometry for the RSA and EB-75 programs were evaluated
- Potential splicing and demarcation locations for connection of existing and proposed circuitry to the proposed ALV were identified

Because the ALV provides the power for the entire ALS, it requires an extensive system of ductbanks to provide the raceways and access from the ALS back to the existing vault. The first step of this analysis was to document the condition of the circuits and conduit connecting to the existing ALV. An evaluation was then conducted of the potential impacts on the proposed ALV site of the changes to FAA AC 150-5300-13A that affect taxiway clearance and separation requirements for certain operational conditions.

In order to determine the infrastructure and connectivity requirements for the new ALV site, the ductbanks that would require re-alignment and/or replacement were identified. This entailed a comprehensive table top and supplemental field review of as-built information to determine the routing of existing ductbanks back to the existing ALV.

This information was supplemented with current topography data to identify the routing for all of the existing infrastructure ALS homeruns back to the current ALV. As a result of this analysis, potential splice points and new ductbank routings for all ALS circuits were identified as well as other essential utilities from the existing ALV to the proposed ALV site.

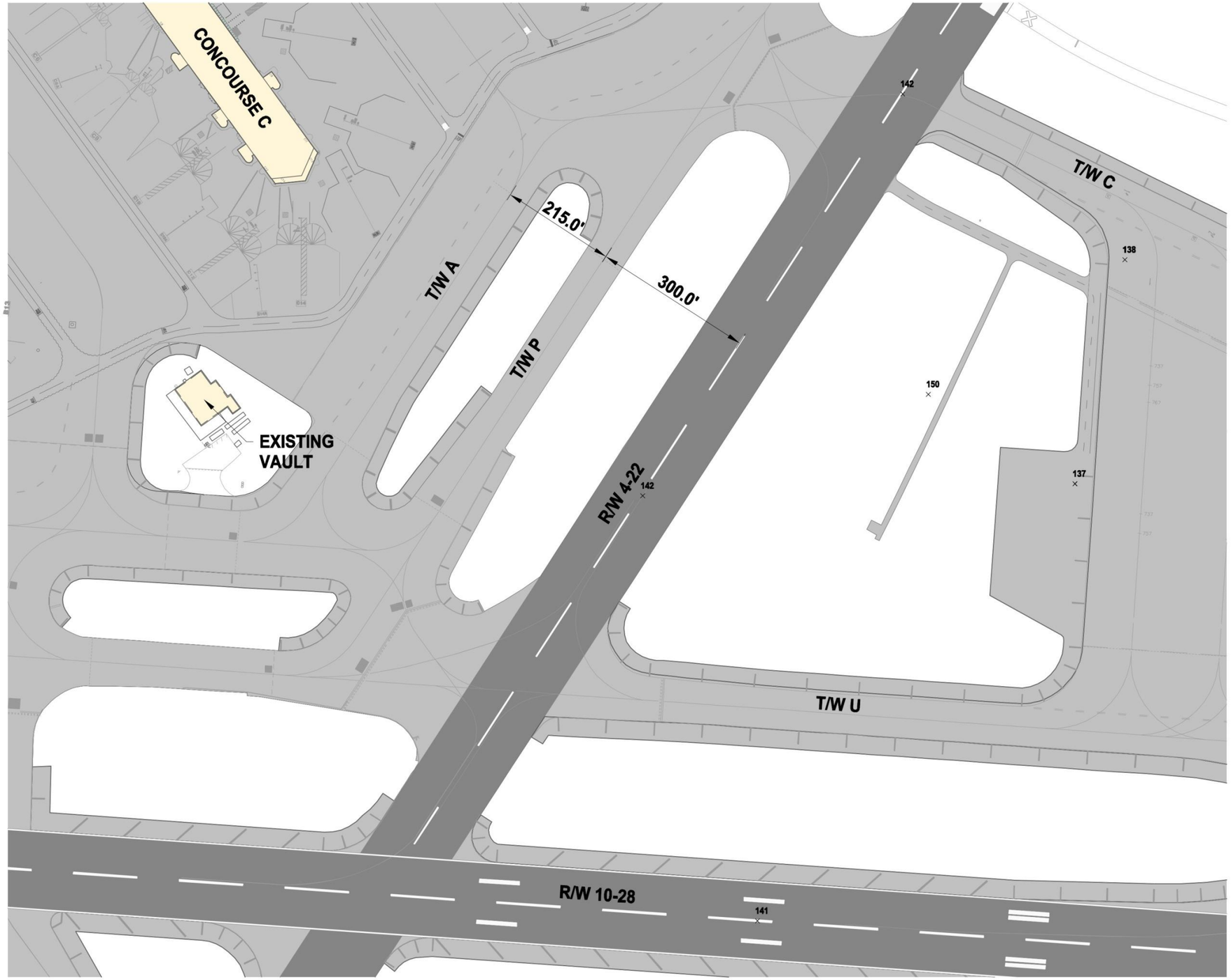
Existing Airfield Lighting Vault (ALV) Conditions

The existing conditions are shown in **Exhibit 1**, which illustrates the location and layout of the current ALV. **Exhibit 2** shows the proposed ALV site as depicted on the 2011 Airport Layout Plan (ALP), and based on the ultimate airfield pavement geometry that will result from the RSA and EB-75 programs.

FAA Advisory Circular Impacts to Proposed ALV location

FAA AC 150/5300-13A requires a parallel taxiway centerline separation of 350 feet for Taxiway Design Group 6 aircraft, should 180 degree turns to a parallel taxiway be necessary. The MAA directed that the proposed ALV site limits be defined based on this recent change to the AC as a worst case scenario to preserve the ability to support the 180 degree turns at this location. The current pavement geometry proposed under the RSA program calls for a 300-foot separation between Taxiway A and Runway 4-22 (which will be converted to Taxiway P). Based on the new separation criteria, the converted Taxiway P centerline would have to be 350 feet from Taxiway A which is 50 feet closer to the proposed ALV location. To comply with the new criteria, the recommended proposed ALV location is shown in **Exhibit 3**.

This exhibit shows that while the new separation requirement affects the size of the site, it does not affect the viability of this site.



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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION

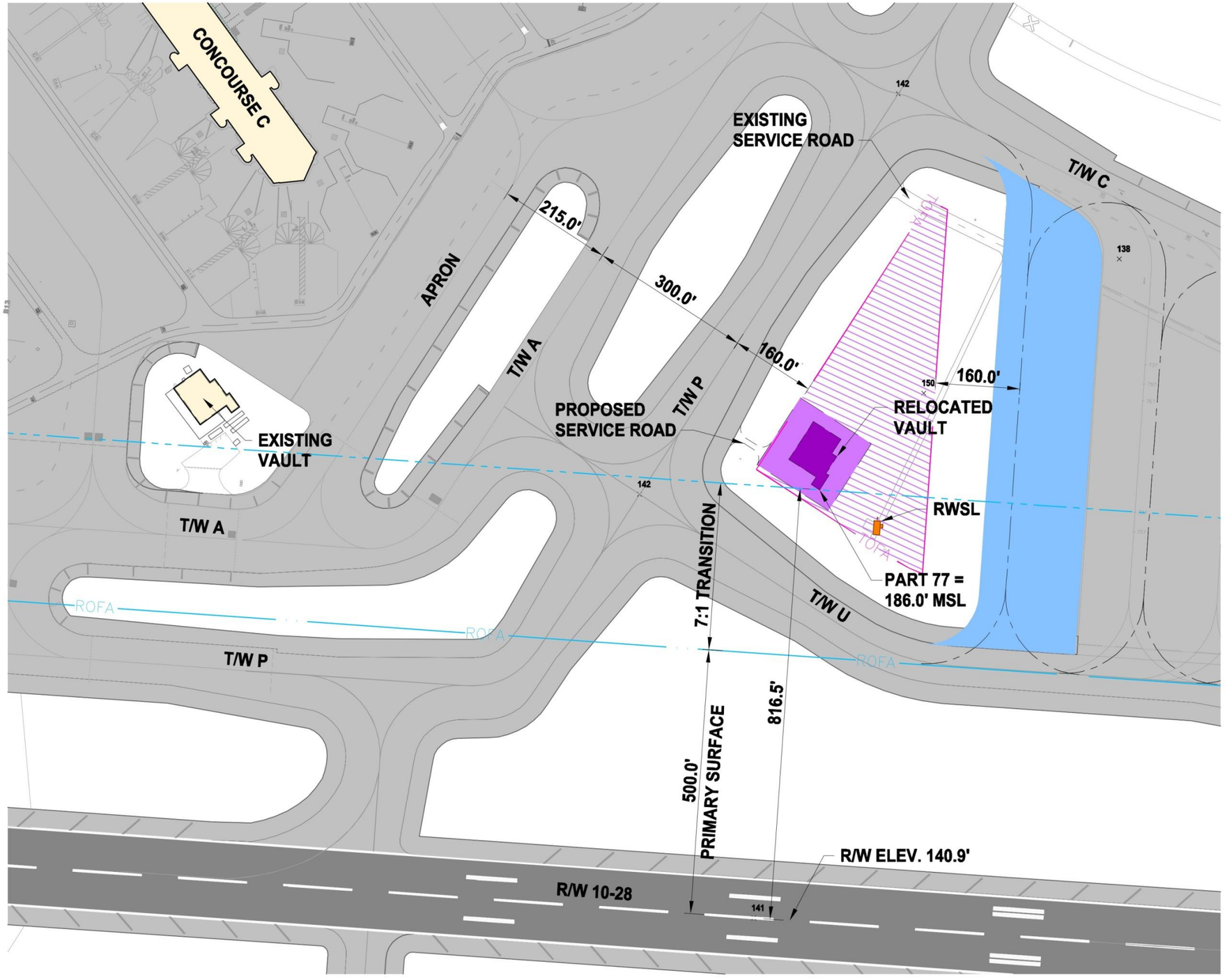
SHEET TITLE: **EXISTING CONDITIONS**

SCALE: AS SHOWN

DATE: February 2013

CONTRACT NO.:

SHEET NO.: EX-1



NOTES:

EXISTING ELEVATION 150.0'
MAX. BUILDING ELEV. 36.0'
R/W 10/28 PART 77 ELEV. 186.0'

LEGEND:

- POTENTIAL SITE LOCATION
- PROPOSED ALP SITE
- PROPOSED AIRFIELD PAVEMENT

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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION

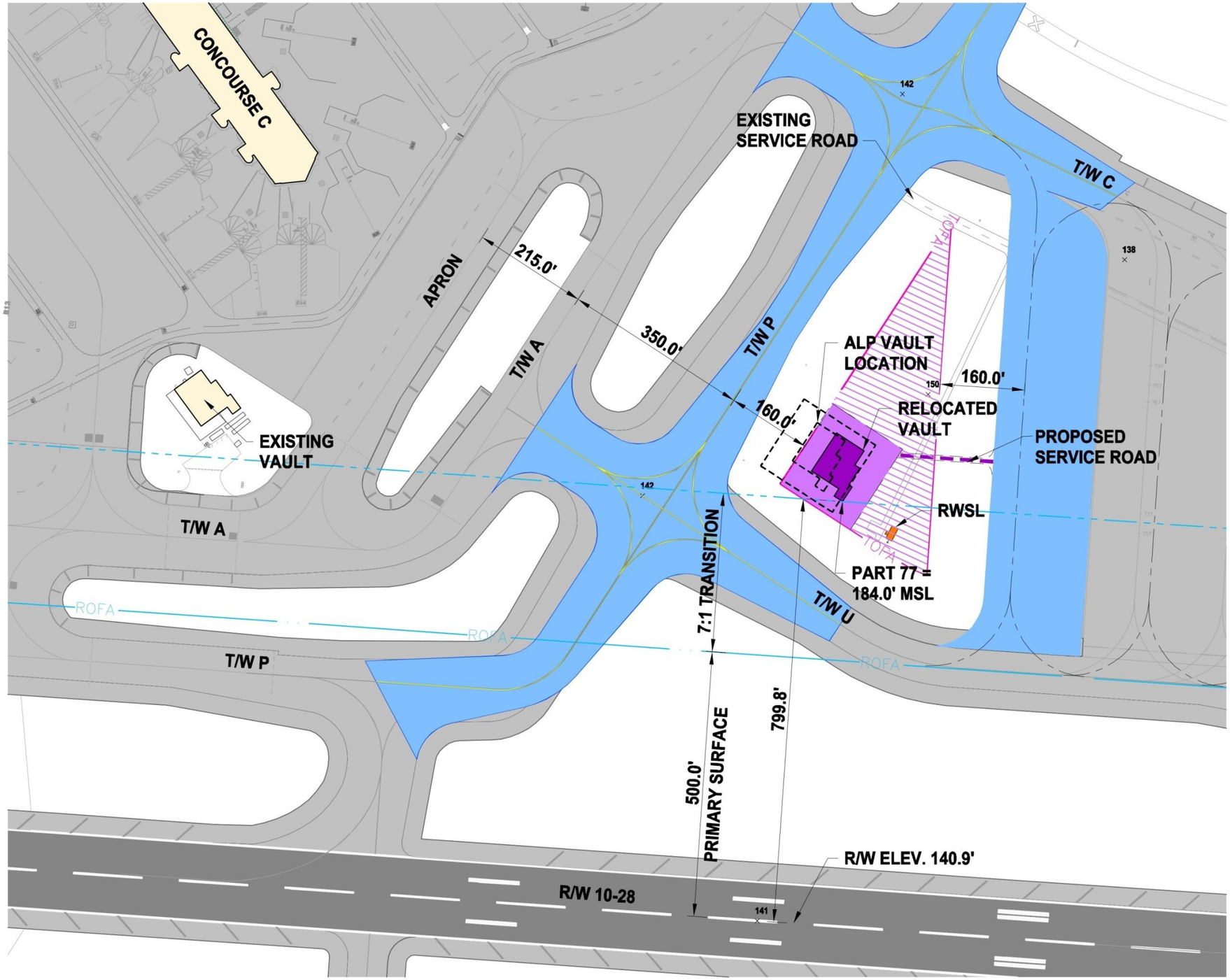
SHEET TITLE: RELOCATED VAULT - ALP LOCATION (2015 CONDITIONS)

SCALE: AS SHOWN

DATE: May 2013

CONTRACT NO.:

SHEET NO.: EX-2



NOTES:

EXISTING SITE ELEVATION 150.0'
MAX. BUILDING ELEV. 33.9'
R/W 10/28 PART 77 ELEV. AT SITE 183.9'

LEGEND:

- POTENTIAL SITE LOCATION
- RECOMMENDED SITE
- ALP VAULT LOCATION
- PROPOSED AIRFIELD PAVEMENT

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SHEET TITLE: RELOCATED VAULT - RECOMMENDED LOCATION (2015 CONDITIONS)

SCALE: AS SHOWN

DATE: May 2013

CONTRACT NO.:

SHEET NO.: EX-3

Existing Utilities Assessment

The following elements were examined during this analysis:

- Airfield cable replacement and upgrade project as-builts
- Pier A airfield improvements project
- Field investigation from the Parsons Transportation Group (PTG) and the MAA Electrical Department

Based on a review of the above-mentioned documentation, the primary homeruns of the ALS were identified to the existing ALV for Runways 10-28, 15R-33L, and 15L-33R. Many of these circuits were bundled in similar manholes and ductbanks.

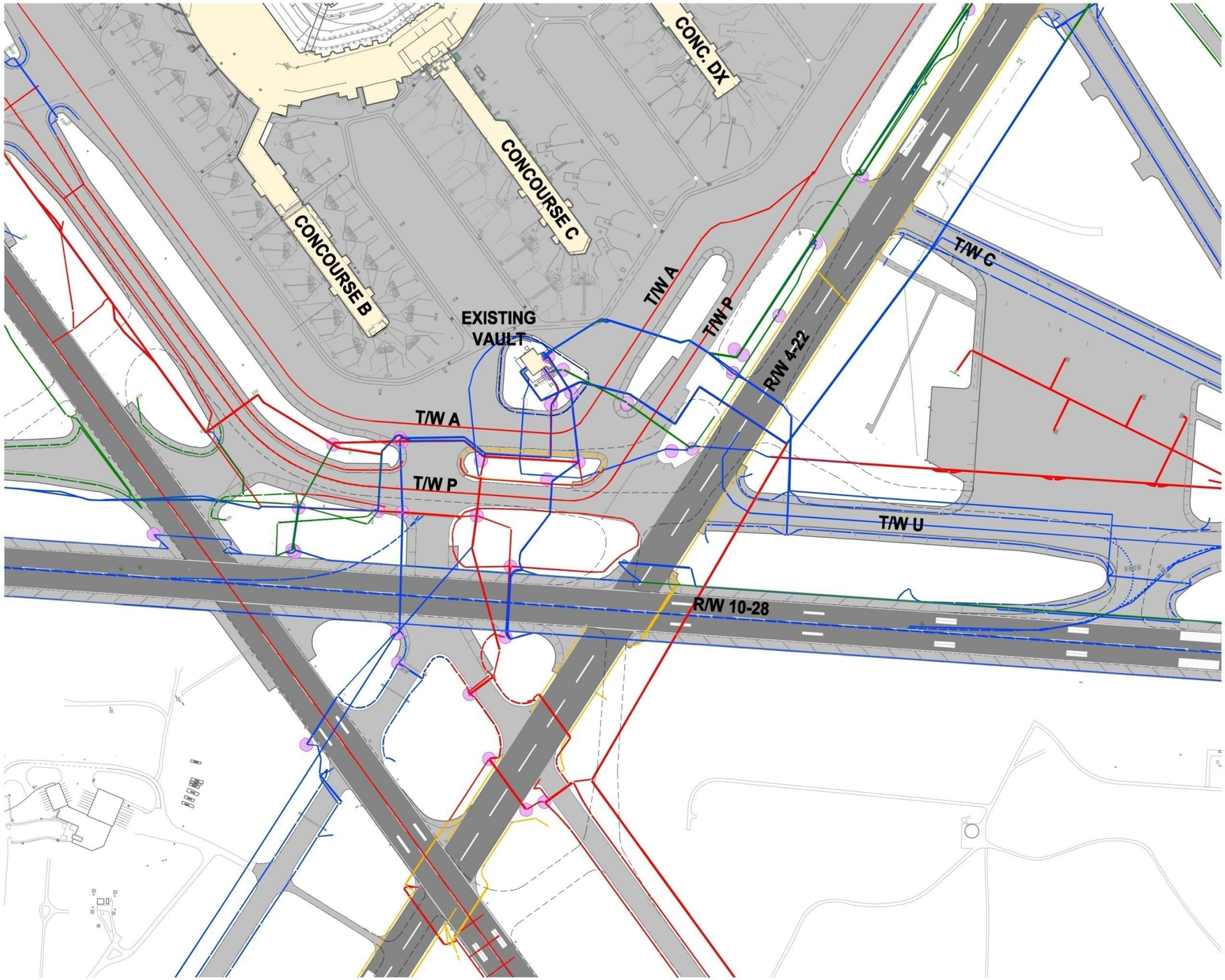
The airfield cable replacement and upgrades project included survey and identification of all circuits around the existing ALV. This project clearly catalogued a good portion of the lighting circuits and also implemented provisions to improve drainage in the manholes. In addition, the Pier A Airfield Improvements project installed and rerouted several of the ALS circuits. After reviewing these two projects, the AECOM team identified some circuitry and ductbanks that were not catalogued. Meetings were held with the PTG and the MAA Electrical Department to field verify some of these unknowns.

This meeting resulted in the airport wide plan that included 64 circuits that serve the ALS and connect back to the existing ALV. **Exhibit 4** illustrates these findings.

Proposed Utilities Assessment

Available information was also assembled and reviewed regarding the utility improvements to the ALS proposed under the RSA and EB-75 compliance programs. **Exhibit 4A** shows the proposed circuits and conduit routing for these improvements to the existing ALV based on the available information.

Please note that these proposed routings are preliminary because of the availability of information from the RSA design teams. Further coordination with the RSA design teams for the proposed routings will occur during concept design. This coordination will enable to the following: (1) confirm the proposed ductbank alignments to the existing ALV, (2) establish the preferred routing for these circuits to the proposed ALV site from a phasing and constructability standpoint, and (3) discuss possible adjustments to, and the long term viability of, the proposed routing alignments to the new ALV site.



LEGEND:

- R/W 10-28 AIRFIELD CIRCUITS
- R/W 15R-33L AIRFIELD CIRCUITS
- R/W 15L-33R AIRFIELD CIRCUITS
- R/W 4-22 AIRFIELD CIRCUITS
- 2015 PAVEMENT EDGES
- SURVEYED ELEC. MANHOLES

400 0 400 800

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SHEET TITLE: EXISTING AIRFIELD LIGHTING CIRCUITS

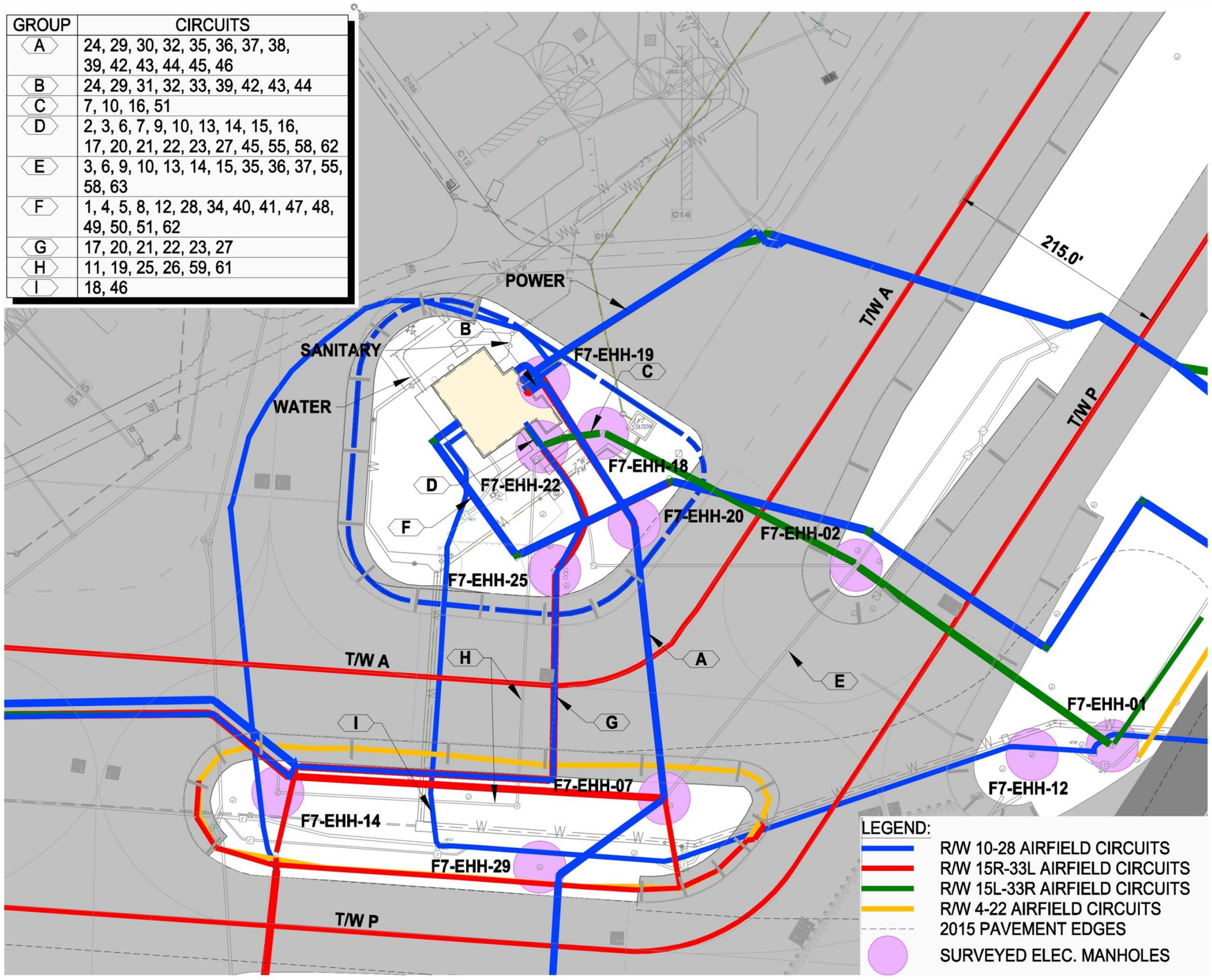
SCALE: AS SHOWN

DATE: February 2013

CONTRACT NO.:

SHEET NO.: EX-4

GROUP	CIRCUITS
A	24, 29, 30, 32, 35, 36, 37, 38, 39, 42, 43, 44, 45, 46
B	24, 29, 31, 32, 33, 39, 42, 43, 44
C	7, 10, 16, 51
D	2, 3, 6, 7, 9, 10, 13, 14, 15, 16, 17, 20, 21, 22, 23, 27, 45, 55, 58, 62
E	3, 6, 9, 10, 13, 14, 15, 35, 36, 37, 55, 58, 63
F	1, 4, 5, 8, 12, 28, 34, 40, 41, 47, 48, 49, 50, 51, 62
G	17, 20, 21, 22, 23, 27
H	11, 19, 25, 26, 59, 61
I	18, 46



Circuit	Layer ID	Runway	Name/Description
1	10-TWB	10-28	T/W B
2	10-TWBHOLD	10-28	B-HOLD BLOCK
3	10-TWC	10-28	T/W C
4	15R-D1	15R-33L	T/W D1
5	15R-D2	15R-33L	T/W D2
6	15L-TWJ	15L-33R	T/W J
7		15L-33R	T/W M
8		15L-33R	T/W B NORTH OF R/W 4-22
9		15L-33R	T/W N
10		15R-33L	T/W P
11		10-28	T/W P2
12		15L-33R	T/W K
13		15L-33R	T/W L
14		15L-33R	T/W Q
15		15L-33R	R/W 15L - 33R ELEVATED GUARD LIGHTS
16		4	R/W 4-22 EDGE LIGHTS
17		15R-33L	R/W 15R-33L EDGE LIGHTS
18		15R-33L	T/W H
19		10-28	T/W E CENTERLINE
20			T/W E1
21			T/W E2
22			T/W E3
23		15R-33L	T/W a
24		10-28	R/W 10-28 EDGE LIGHT (WEST)
25		10-28	R/W 10-28 C/L LIGHTS
26		10-28	R/W 10-28 TDZ LIGHTS
27		15L-33R	T/W R
28		15L-33R	T/W S
29		15R-33L	R/W 15R-33L C/L LIGHTS
30		15R-33L	R/W 15R-33L TDZ LIGHTS
31		10-28	T/W F-G
32		15R-33L	R/W 15R DEICING
33		15R-33L	T/W F
34		15R-33L	R/W 33L ILS
35		10-28	T/W V
36		10-28	T/W U
37		10-28	T/W U1
38		10-28	T/W U1 C/L
39		10-28	R/W 10-28 EDGE LIGHT (EAST)
40		15L-33R	R/W 15L-33R HOLD BAR LTS.
41		15L-33R	R/W 15L-33R EDGE
42		10-28	T/W E HOLD BAR
43		10-28	T/W R WEST
44		10-28	MIDFIELD CARGO APRON LIGHTING
45		10-28	MIDFIELD CARGO GUARD LIGHT (EAST & WEST)
46		10-28	R/W 28 DEICING HOLD BAR
47		15R-33L	R/W 15R-33L INPAVEMENT GUARD LIGHT
48		15R-33L	/W P FROM T/W H TO T/W E C/L LIGHT (CIRCUIT
49		15R-33L	R/W 15R-33L ELEVATED GUARD LIGHT (EGL)
50		15L-33R	15L-33R REILS
51		15L-33R	R/W 15L-33R PAPI'S
52		4	R/W 4-22 LEAD-OFF LIGHT
53		4	/W P FROM T/W E TO T/W B C/L LIGHT (CIRCUIT
54		15R-33L	T/W R STOP BAR
55		10-28	R/W 10-28 INPAVEMENT GUARD LIGHTS
56		15L-33R	T/W B C/L LIGHTS
57		15R-33L	T/W F C/L LIGHTS
58		4	T/W P AT R/W 4-22 IN/ELEV. GUARD LIGHTS
59		15R-33L	T/W A C/L LIGHTS
60		15L-33R	T/W B C/L LIGHTS
61		15R-33L	T/W A FROM T/W H TO T/W E C/L
62		10-28	T/W C C/L LIGHTS
63		10-28	T/W U C/L LIGHTS
64			T/W C2 C/L LIGHTS

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THURGOOD MARSHALL AIRPORT

PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION

SHEET TITLE: EXISTING AIRFIELD LIGHTING CIRCUITS - PART PLAN

SCALE: AS SHOWN

DATE: February 2013

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SHEET NO.: EX-4A

Surface and Sub-Surface Geometry

The proposed airfield pavement geometry in the RSA and EB-75 programs includes the following:

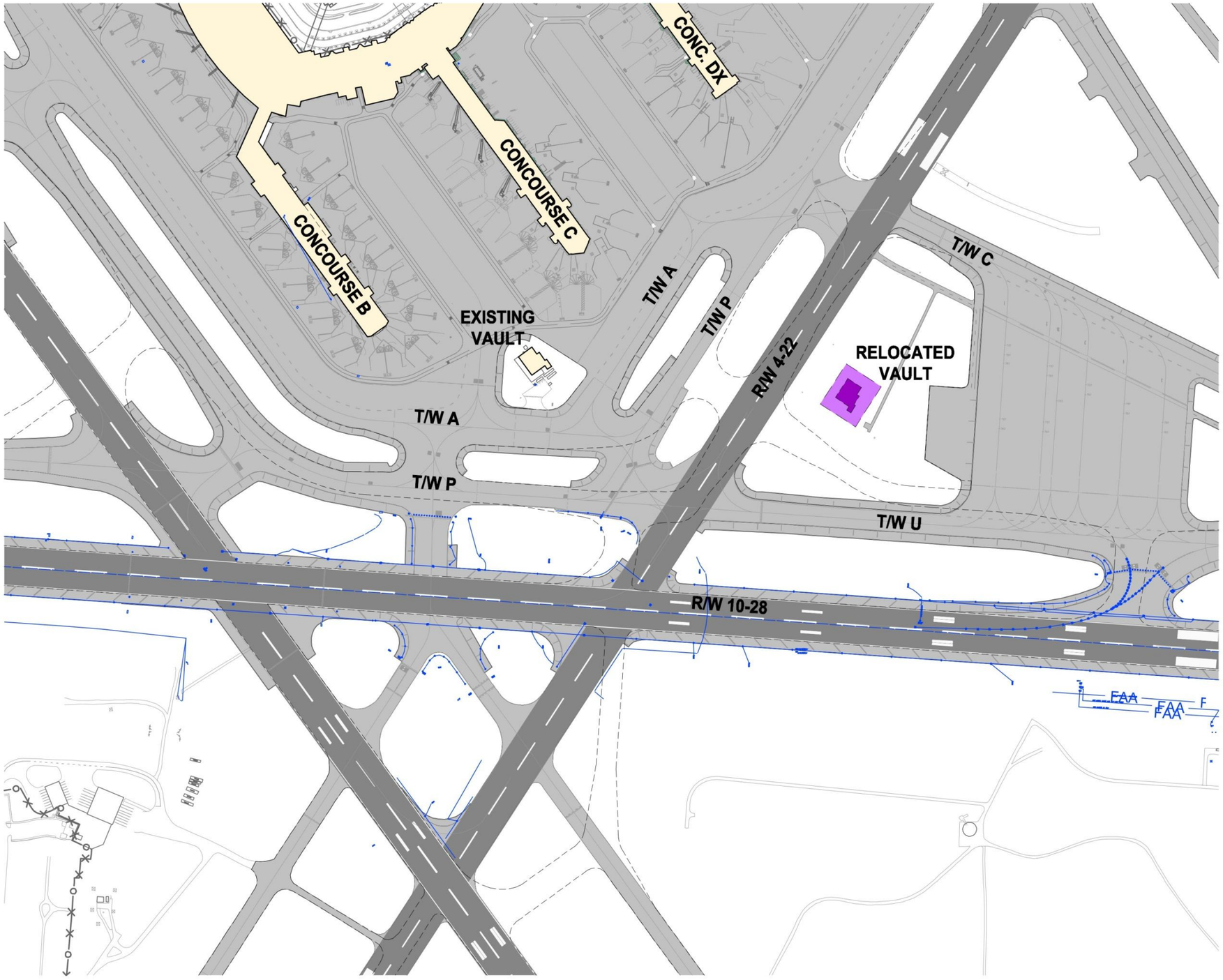
- Reduction in Runway 10-28 width from 200 feet to 150 feet
- Removal of Taxiways E, D, and R
- Shift of Runway 15R-33L centerline by three feet
- Realignment of Taxiways U and P1
- Construction of new Taxiways D, R, U, and U1
- Conversion of Runway 4-22 to Taxiway P

All of these airfield pavement geometry revisions will necessitate either the installation of new, or the removal of existing airfield lighting infrastructure. Ductbank access to the proposed ALV site for these new circuits must consider this new pavement geometry. Manholes and handholes for these ductbanks must be installed clear of the new full strength pavement and should be included in the RSA and EB-75 projects for any ductbank alignments that will run beneath proposed pavement.

These geometries were evaluated to determine optimal locations for connecting these circuits to the proposed ALV site. Based on our analyses, we prepared the following exhibits:

- **Exhibit 5** – Proposed Runway 10-28 Utility Routing
- **Exhibit 6** – Proposed Runway 15L-33R Utility Routing
- **Exhibit 7** – Proposed Runway 15R-33L Utility Routing
- **Exhibit 8** – Airfield Lighting Circuits Using 2015 Geometry

Exhibits 5 through **7** depict the proposed runway circuitry and conduit routings to the existing ALV. **Exhibit 8** shows the proposed routings for the homeruns for these circuits to the proposed ALV site, denoting recommended locations for under-pavement conduit runs.



LEGEND:

R/W 10-28 AIRFIELD CIRCUITS

2015 PAVEMENT EDGES

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SHEET TITLE: PROPOSED R/W 10-28 UTILITY ROUTING

SCALE: AS SHOWN

DATE: February 2013

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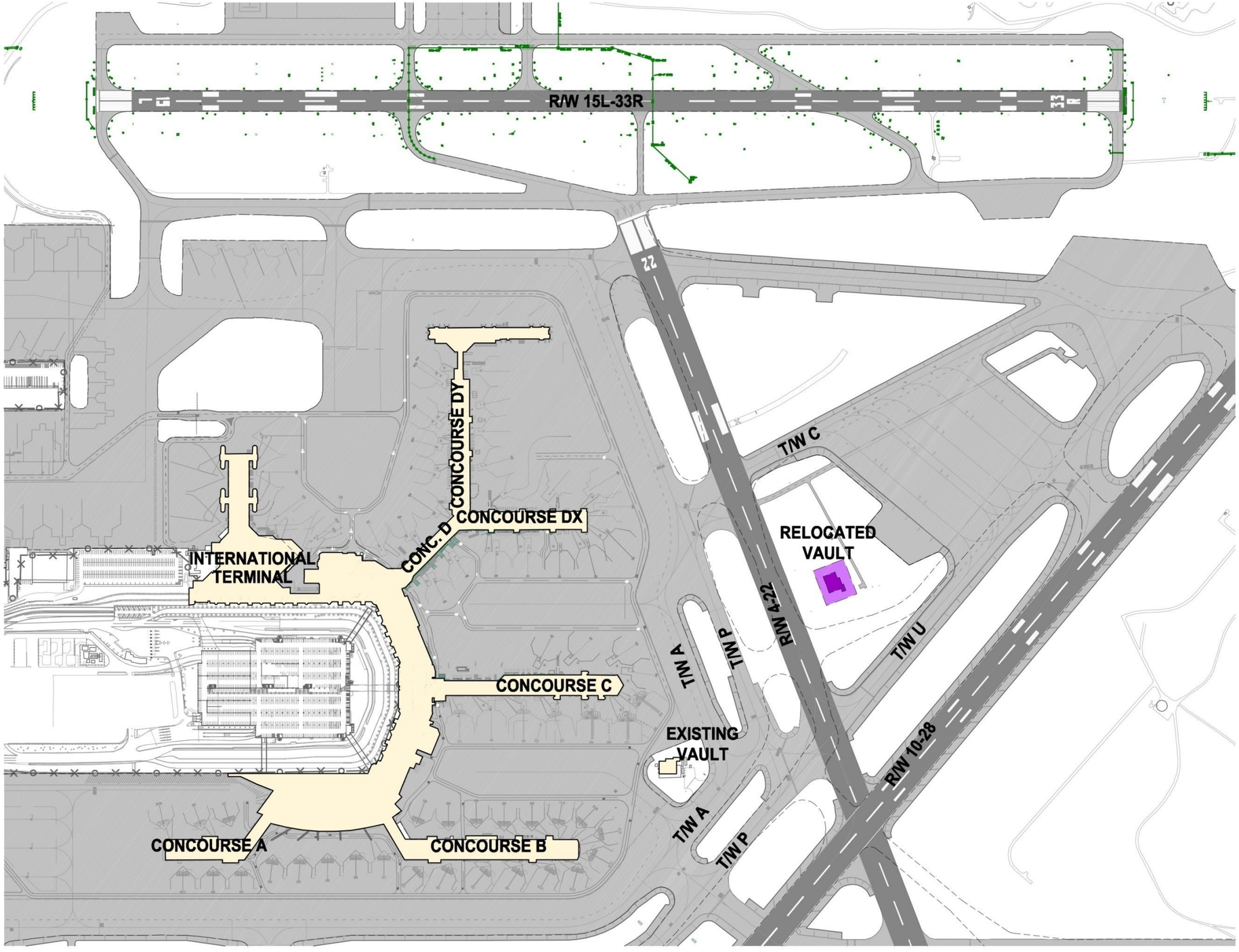

LEGEND:

R/W 15L-33R AIRFIELD CIRCUITS

2015 PAVEMENT EDGES

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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION

SHEET TITLE: PROPOSED R/W 15L-33R UTILITY ROUTING

SCALE: AS SHOWN

DATE: February 2013

CONTRACT NO.:

SHEET NO.: EX-6

INTERNATIONAL TERMINAL

CONCOURSE D

CONCOURSE DX

CONCOURSE C

CONCOURSE A

CONCOURSE B

RELOCATED VAULT

EXISTING VAULT

T/W A

T/W P

R/W 4-22

T/W U

R/W 10-26

PAVEMENT TO BE REMOVED DURING THE PROGRAM

CURRENT VAULT HOME RUN (DESIGN)

R/W 15R-33L

LEGEND:

R/W 15R-33L AIRFIELD CIRCUITS

2015 PAVEMENT EDGES

400 0 400 200

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SHEET TITLE: PROPOSED R/W 15R-33L UTILITY ROUTING

SCALE: AS SHOWN

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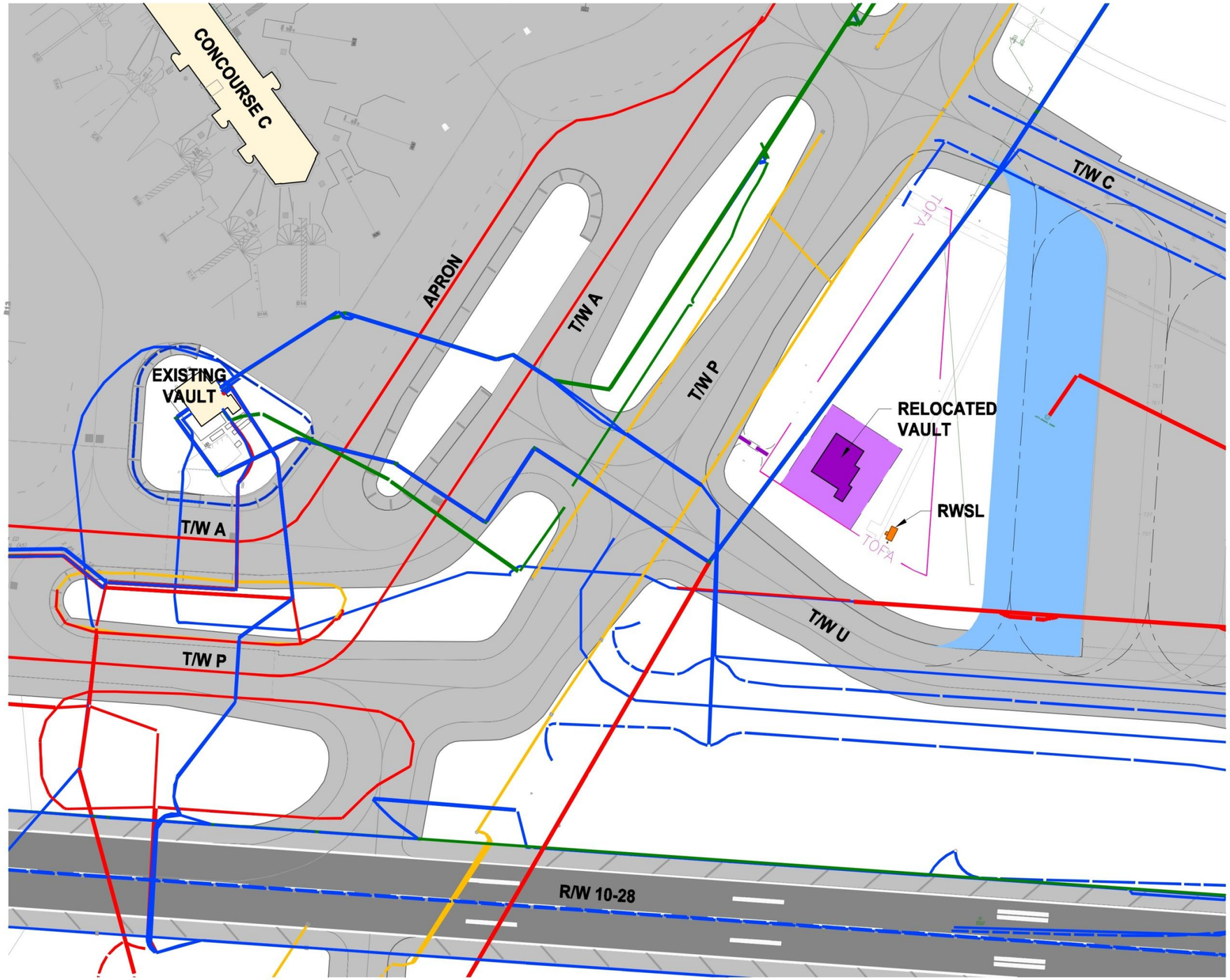
CONTRACT NO.:

SHEET NO.: EX-7



LEGEND:

- R/W 10-28 AIRFIELD CIRCUITS
- R/W 15R-33L AIRFIELD CIRCUITS
- R/W 15L-33R AIRFIELD CIRCUITS
- R/W 4-22 AIRFIELD CIRCUITS
- PROPOSED AIRFIELD PAVEMENT

NOTES

1. DESIGNS OF T/W U, P, OR R FOR THE 2015 CONDITIONS HAVE NOT YET COMMENCED.
2. SUGGESTED DUCT BANKS ROUTING WILL BE ADDED TO FINAL STUDY EXHIBITS.

200 0 200 400

SCALE IN FEET

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DESIGNED:	R.E.S.		
DRAWN:	J.M.W.		
CHECKED:	K.M.F.		
APPROVED:	C.A.J.	REVISION NO.:	REVISION DATE:	DESCRIPTION:

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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION

SHEET TITLE: AIRFIELD LIGHTING CIRCUITS USING 2015 GEOMETRY

SCALE: AS SHOWN

DATE: February 2013

CONTRACT NO.:

SHEET NO.: EX-8

Demarcation and Splicing Locations

The demarcation and splicing analysis focused on the main runway circuits. The circuits were identified and traced to the nearest existing underground junction structures and then to the proposed ALV site.

To minimize the amount of new excavation and trenching throughout the airfield, existing junction structures were located as splice points for the existing airfield lighting circuits near the proposed ALV. The splice locations were also established in order to re-route as much of the underground circuitry away from the existing ALV. Splicing the existing circuits away from the existing ALV site allows for removal of the existing manholes within the area and for the placement of the lighting circuits away from aircraft traffic. This will facilitate construction and circuit maintenance.

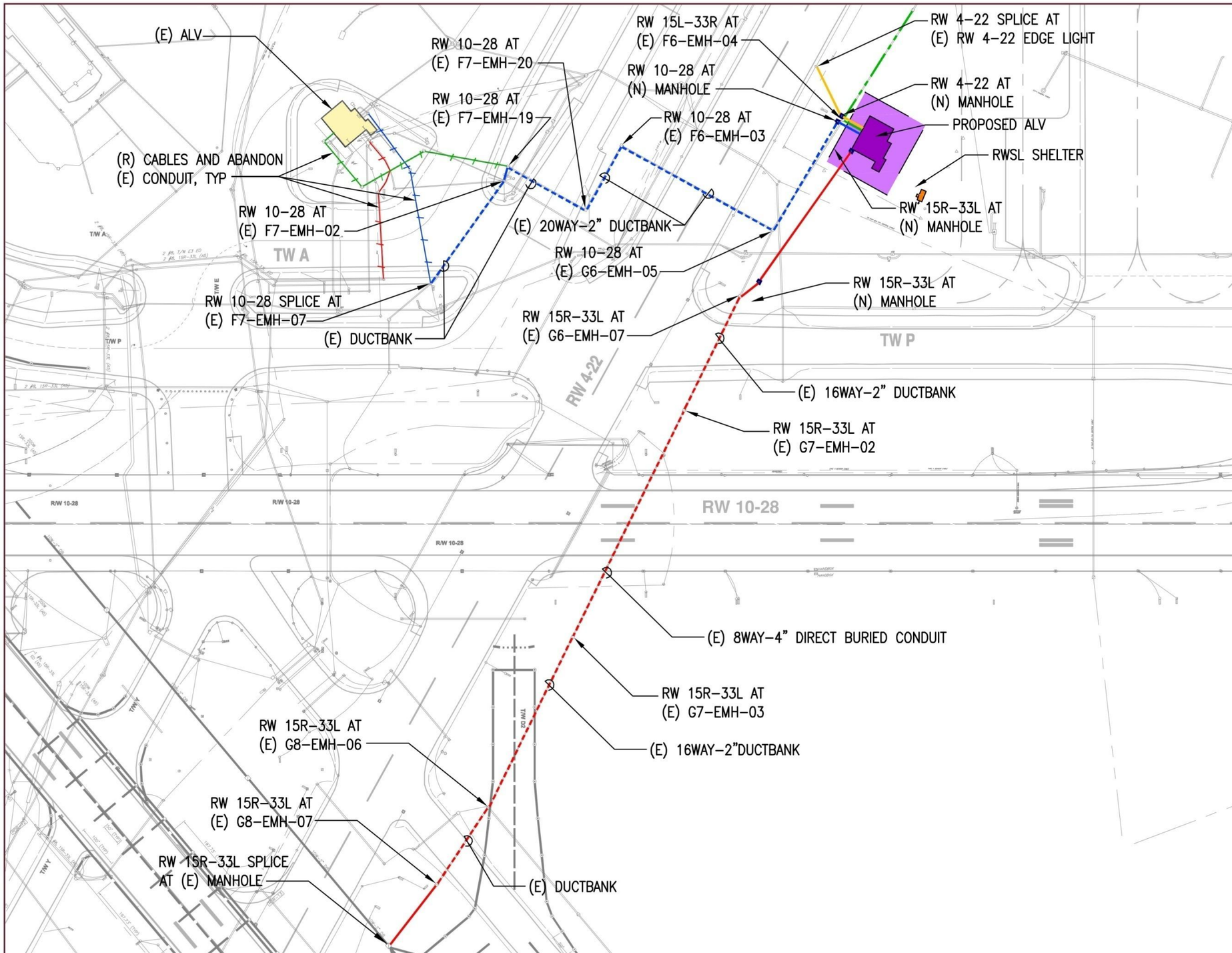
New and existing ductbanks were used to route the new airfield lighting cables from the proposed ALV site to designated splice points. This routing also assumed that these circuits would be isolated and housed in separate conduits and underground junction structures. This decision will potentially increase the number of underground junction structures to be installed, but is the better design approach.

Exhibit 9 depicts this proposed routing. Additional investigation will occur during concept design to ensure existing ductbanks and underground junction structures have the capacity to accommodate the new cables.

Proposed routing was also identified for data and communications and any FAA associated cabling to the proposed ALV site via new and existing underground ductbanks and junction structures. We found that the airfield lighting control and monitoring system (ALCMS) may require that the existing communication manholes located at the existing ALV site remain in place. As-built drawings indicate that the existing communication ductbank that houses the ALCMS system cables provides the most direct and economical route to the existing ATCT. An alternate routing of the cables to avoid the use of the existing communication manholes at the existing ALV site will be further investigated during concept design. **Exhibit 10** illustrates this proposed routing.

ALV Utilities

In addition to the ALV lighting circuits, the other primary utilities that connect to the existing ALV are to be identified during concept design. These service connections include electrical power and control, telecommunications, water, and sanitary. The routing of these services to the existing ALV is based on as-built information. The conceptual utility routing will be developed during concept design to provide these same connections to the proposed ALV site.



LEGEND:

RUNWAY 10-28 CIRCUIT

- REMOVE EXISTING CABLES
- NEW CABLES IN NEW DUCTBANK
- NEW CABLES IN EXISTING DUCTBANK

RUNWAY 4-22 CIRCUIT

- REMOVE EXISTING CABLES
- NEW CABLES IN NEW DUCTBANK
- NEW CABLES IN EXISTING DUCTBANK

RUNWAY 15L-33R CIRCUIT

- REMOVE EXISTING CABLES
- NEW CABLES IN NEW DUCTBANK
- NEW CABLES IN EXISTING DUCTBANK

RUNWAY 15R-33L CIRCUIT

- REMOVE EXISTING CABLES
- NEW CABLES IN NEW DUCTBANK
- NEW CABLES IN EXISTING DUCTBANK

ABBREVIATIONS:

ALV	AIRFIELD LIGHTING VAULT
(E)	EXISTING
EMH	ELECTRICAL MANHOLE
(N)	NEW
(R)	REMOVE
RW	RUNWAY
RWSL	RUNWAY STATUS LIGHTS
TW	TAXIWAY
TYP	TYPICAL

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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION

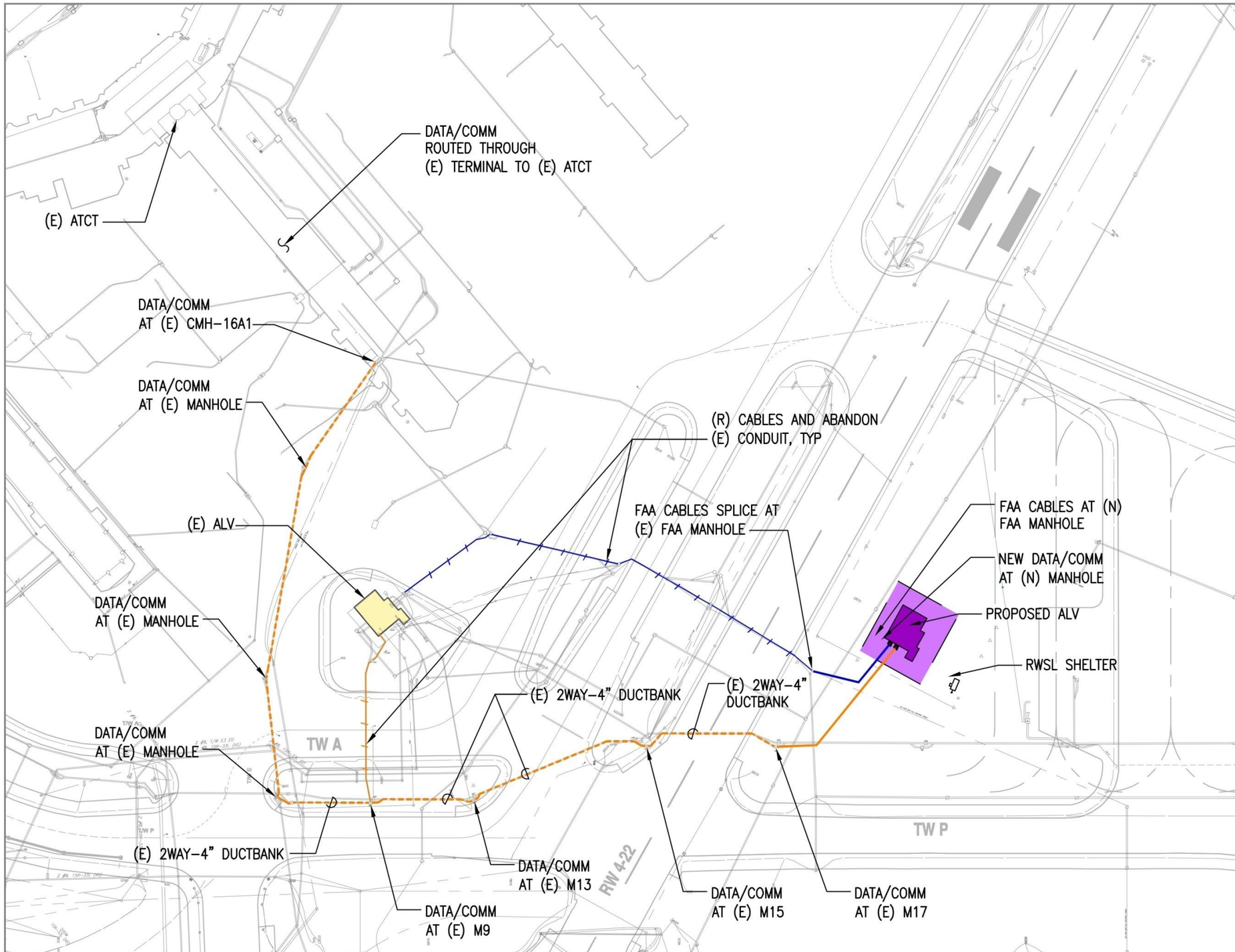
SHEET TITLE: DEMARCATION AND SPLICING – ALS

SCALE: AS SHOWN

DATE: February 2013

CONTRACT NO.:

SHEET NO.: EX-9



LEGEND:

ALV LIGHTING CONTROL/COMM

- REMOVE EXISTING CABLES
- NEW CABLES IN NEW DUCTBANK
- NEW CABLES IN EXISTING DUCTBANK

FAA CABLES

- REMOVE EXISTING CABLES
- NEW CABLES IN NEW DUCTBANK
- NEW CABLES IN EXISTING DUCTBANK

ABBREVIATIONS:

ATCT	AIR TRAFFIC CONTROL TOWER
ALV	AIRFIELD LIGHTING VAULT
(E)	EXISTING
EMH	ELECTRICAL MANHOLE
(N)	NEW
(R)	REMOVE
RW	RUNWAY
RWSL	RUNWAY STATUS LIGHTS
TW	TAXIWAY
TYP	TYPICAL

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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION

SHEET TITLE: DEMARCATION AND SPLICING – DATA/COMM AND FAA

SCALE: AS SHOWN

DATE: February 2013

CONTRACT NO.:

SHEET NO.: EX-10

Findings - Section 1

Based on the existing utilities identified during this analysis and the new circuits and conduit proposed as part of the RSA program, there is a clear understanding of the existing infrastructure that is connected to the current ALV. Potential routing, demarcation, and splicing points have also been developed for new ductbanks that will be required to establish connectivity with the proposed ALV for existing and proposed airfield improvements.

Section 2: Preliminary Phasing and Implementation Plan

Introduction

Section 2 discusses the preliminary phasing and sequencing plan for the proposed ALV location. Alternatives for phasing and sequencing of ductbank and splicing will be developed once all of the information is analyzed and a meeting is held to confirm all design methodology with the RSA design teams. This section also identifies other proposed improvements for BWI Marshall as shown on the ALP that may affect, or be affected by, the proposed ALV.

Phasing Overview

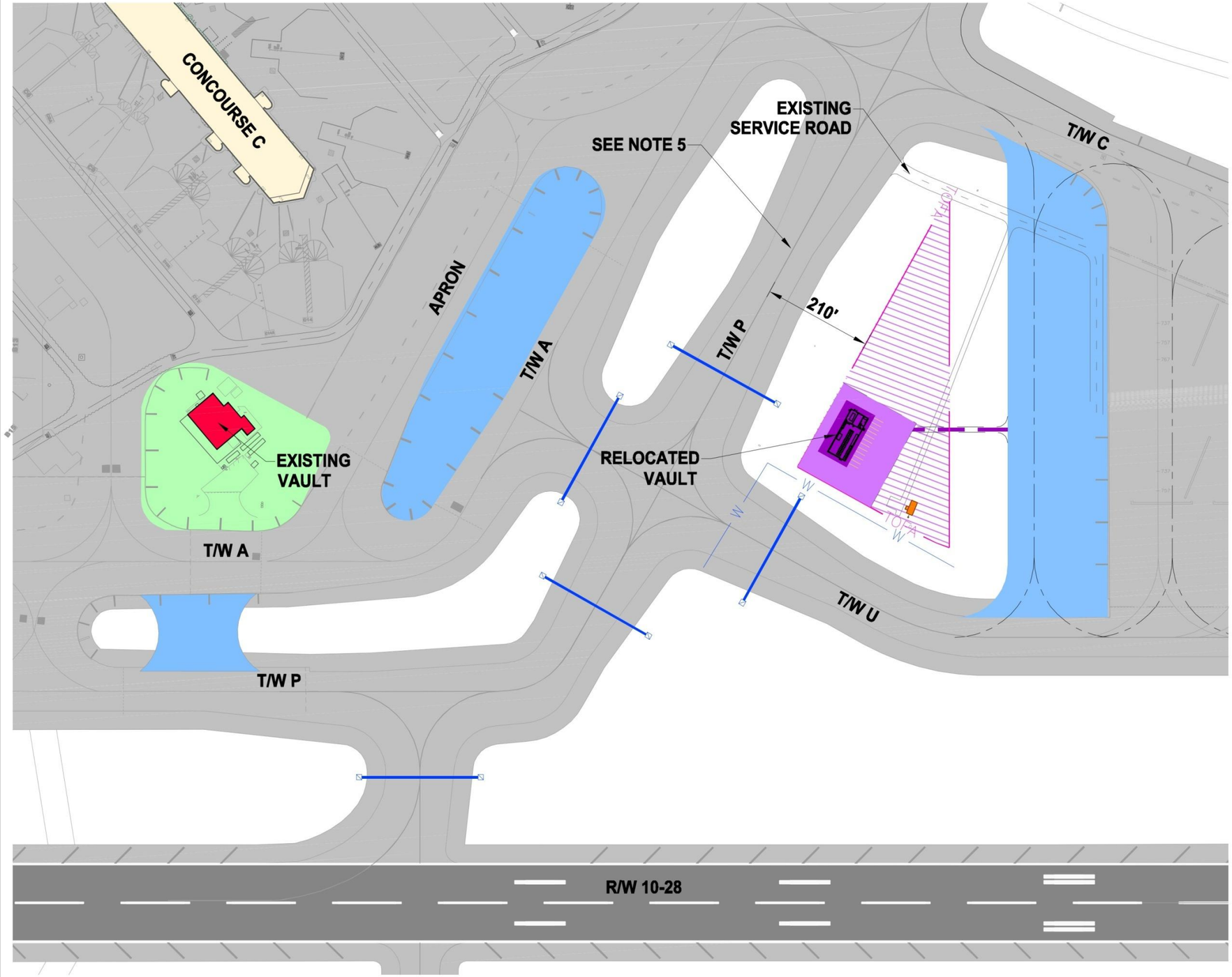
Based on discussions with the MAA, the proposed ALV is anticipated to be completed by 2018. Based on this end date, the preliminary phasing for the proposed ALV consists of the following elements which were utilized throughout the analysis, as shown on **Exhibit 11**:

- New ALV infrastructure such as underground lighting circuits, power, sanitary, and water to provide connectivity to the airfield circuits and bring required utilities to the new vault;
- Site preparation including earthwork and drainage;
- Construction of the new ALV facility and associated pavement based on the proposed footprint;
- Installation of equipment and utility tie-ins to include regulators and generators and building support systems for activation of the ALV; includes splicing of the new systems to existing infrastructure;
- Demolition of the existing facility once the new ALV is operational; includes removal of the building, pavement, and underground infrastructure identified for removal; and,
- Full strength airside pavement infill of the terminal ramp where the existing ALV is located (construction of adjacent taxiways was not considered in this analysis).

General Phasing

The elements of work were grouped into primary implementation phases as follows:

- **Phase 0: Enabling Construction** – Includes construction that should occur concurrently with the RSA and EB-75 projects based on their limits of disturbance to take advantage of the project schedules and any airfield closures that are required for those projects. The overall intent would be to minimize any impacts to airfield operations through close coordination with the RSA and EB-75 projects.



LEGEND:

- PHASE 0
- PHASE 1
- PHASE 2
- PHASE 3
- PROPOSED AIRFIELD PAVEMENT

NOTES:

1. PHASE 0 (BLUE) INVOLVES UNDERGROUND WORK THAT WILL BE COMPLETED IN PRECEDING PROJECTS (EB75 AND/OR RSA IMPROVEMENTS).
2. PHASE 1 (PURPLE) WORK INVOLVES SITE PREP, NEW ALV CONSTRUCTION. PHASE 1 COMPLETED IN 2018.
3. PHASE 2 (RED) WORK INVOLVES DEMOLITION OF EXISTING ALV/ UTILITIES. PHASE 2 COMPLETED IN 2019.
4. PHASE 3 (GREEN) WORK INVOLVES PAVING IN FILL AREA. PHASE 3 COMPLETED IN 2019.
5. SHOULD THIS PAVEMENT SHIFT 50' TO MEET FAA AC 150/5300-13A, ADDITIONAL PHASE 0 DUCT CROSSINGS (EXTENSIONS) WOULD BE REQUIRED.

* 210' IS THE 160' GROUP V TOFA (FROM ALP GEOMETRY) PLUS-50' FOR THE POTENTIAL 350' SEPARATION REQUIREMENT IN FAA AC 5300-13A.

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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION

SHEET TITLE: PROPOSED ALV PROGRAM ELEMENTS

SCALE: AS SHOWN

DATE: May 2013

CONTRACT NO.:

SHEET NO.: EX-11

- **Phase 1: New ALV Construction** – Includes construction of the new facility shell and all related site preparation associated with the new location. Phase 1 also includes installation of the ALV equipment, splicing of existing circuits to the new vault, and commissioning (energizing) of the new facility.

- **Phase 2: Existing ALV Demolition** – Includes removal of the existing facility and underground infrastructure identified to be abandoned. Phase 2 also includes removing existing cable from existing underground infrastructure to be abandoned as a result of the new ALV implementation.

- **Phase 3: Ramp Pavement Infill** – Includes site preparation and installation of new full strength airside pavement to fill the area of the existing vault.

- **Phase 4: Future Projects** – Includes provisions and considerations for future projects such as the new ATCT and new or upgraded runways.

Phase 0 is the most time critical because it has to coincide with the construction schedules for the RSA program which must be completed by 2015. Phase 1 is also time critical in order to achieve the proposed 2018 implementation date for the new ALV. Phases 2 and 3 would be driven by the need to reclaim the existing ALV site to support airfield operations. Phase 4 timing would be driven by the timing of the new ATCT and ultimate development of Runway 15L-33R and proposed Runway 10R-28L. Further discussion of each phase, the key elements in each phase and the preliminary construction phasing are described in the following pages.

Overall Phase Schedule

Target dates were established for completion of each phase in accordance with ongoing programs and the development phases shown on the approved ALP as follows:

- Phase 0 would be completed by 2015 in coordination with the RSA and EB-75 programs
- Phases 1 and 2 would be completed by 2018
- Phase 3 could be completed between 2018 and 2020
- Phase 4 would be completed beyond 2020

To achieve the 2015 date, several Phase 0 elements should be included in the remaining procurements for the RSA projects. The reason for this is that since the RSA projects include underground and under-pavement infrastructure that requires airfield closures, the proposed ALV infrastructure should be installed during the closures already required for the RSA projects.

Phase 1 would be a separate procurement effort. To achieve a 2018 completion date, Notice-to-Proceed (NTP) for full design would need to occur by fall 2016. This phase could be packaged with Phases 2 and 3 for bidding purposes with separate milestones for completion.

Phasing Discussions

Phase 0. The RSA Improvement Projects for Runways 10-28, 15R-33L and 15L-33R, the conversion of Runway 4-22 into Taxiway P, and the relocations of Taxiway U and Taxiway R are all scheduled to be completed by 2015. Elements to be included in this phase consist of installing any necessary underground infrastructure to the proposed ALV site within those project limits of disturbance when feasible. Specifically, duct routing and underground utilities and their alignments under proposed pavements within the airfield geometry must be considered. Implementing these elements will save time and money, and limit operational impacts resulting from the ALV relocation.

Areas identified for underground improvements to be included in the preceding projects are shown in **Exhibit 12**.

Work elements shown in this Exhibit include:

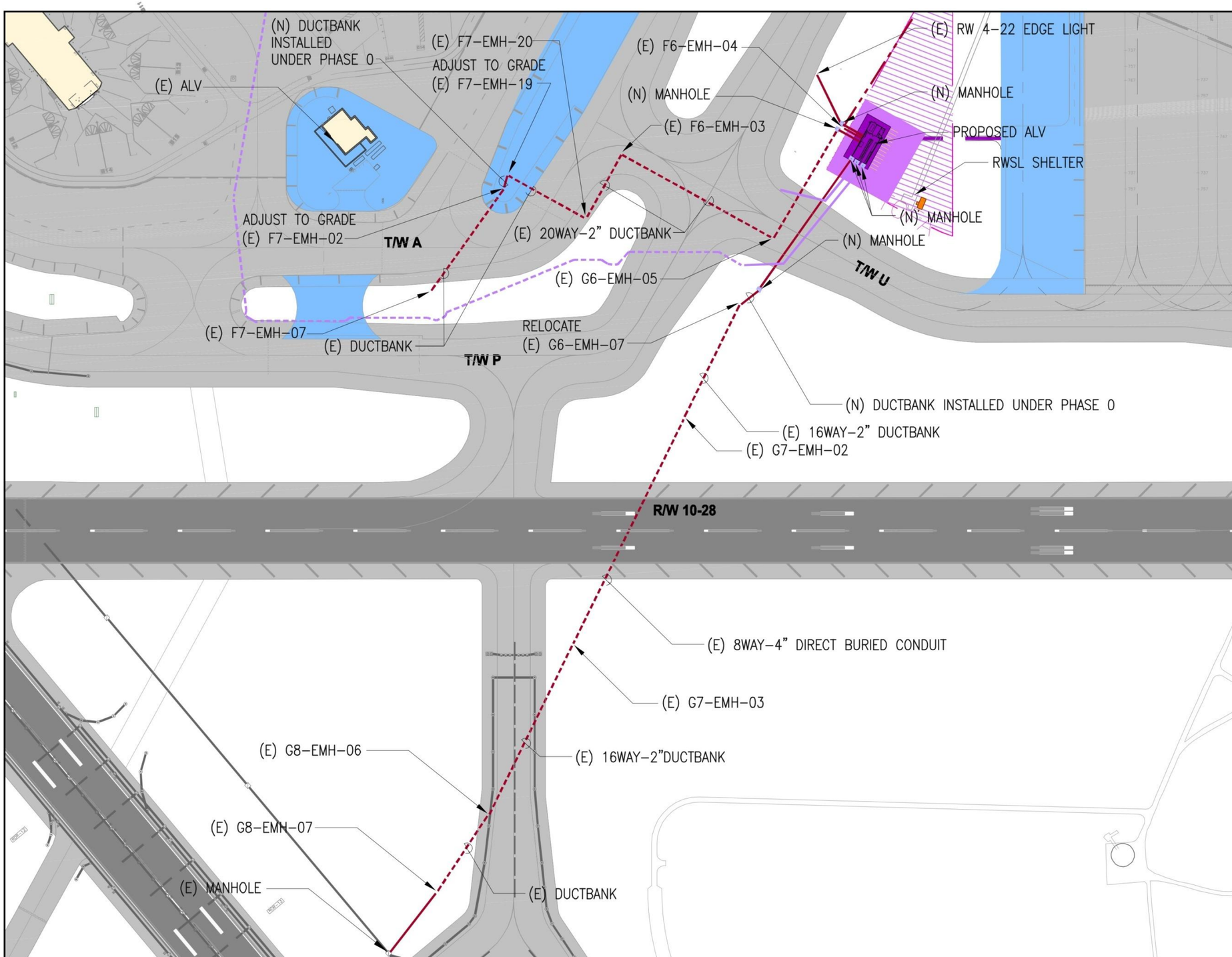
- One ductbank crossing under Taxiway R,
- Two ductbank crossings under Runway 4-22 and Taxiway P,
- One ductbank crossing east of Runway 4-22;
- One ductbank crossing under Taxiway U, west of Runway 4-22; and,
- Water utility work to be installed under Taxiway U.

The installation under Taxiway P would provide a conduit for power and data (control) connectivity to the new ALV site. It would also provide a replacement route for the 16W-2-inch conduit that lies within the footprint of the proposed Taxiway U extension. The installations under Taxiway U would carry new and existing circuits and would replace the 16W-2-inch conduit that would be demolished with the taxiway relocation work. The installation under Taxiway R would carry new and existing circuits. These installations will need to be closely coordinated with the RSA and EB-75 projects as most new installations are included in their respective projects, but some may need to be upsized to accommodate the new ALV conduits.

Based on the analysis thus far, there does not appear to be a need to increase the size of any underground crossings included in the time critical projects for Runway 10-28 (which is already under construction) or for Runway 15R-33L.

Phase 1. The ALV site work would consist of extending stubbed utilities (water, stormwater drainage, data and power) and site grading to provide the desired finished floor elevation. The site grading and utility work would be among the first items of construction and would take approximately two months to complete.

Exhibit 12 also shows the connection points for some of the proposed ALV circuits.



LEGEND:

- NEW AFL CABLES IN NEW DUCTBANK
- NEW AFL CABLES IN EXISTING DUCTBANK
- NEW COMM CABLES IN NEW DUCTBANK
- NEW COMM CABLES IN EXISTING DUCTBANK
- PHASE 1
- PROPOSED AIRFIELD PAVEMENT

ABBREVIATIONS:

ALV	AIRFIELD LIGHTING VAULT
(E)	EXISTING
EMH	ELECTRICAL MANHOLE
(N)	NEW
(R)	REMOVE
RW	RUNWAY
RWSL	RUNWAY STATUS LIGHTS
TW	TAXIWAY
TYP	TYPICAL

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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION

SHEET TITLE: PHASE 0 UNDERGROUND IMPROVEMENTS AND CONNECTION POINTS

SCALE: AS SHOWN

DATE: May 2013

CONTRACT NO.:

SHEET NO.: EX-12

The proposed ALV will be a single story, stand alone, above ground structure. The type of construction material to be used for the structure is not yet determined; however it is likely to be concrete block, pre-cast concrete, or cast-in-place concrete. The foundation will be designed based upon the structure loads and the local soil conditions, but it is likely to be a slab on grade or mat foundation. The construction duration of the vault will be determined by the type of material used for the walls and ceiling. However, for this preliminary phasing plan, three months should be sufficient for constructing the vault building itself.

The proposed ALV structure will house the medium voltage switchgear, step-down transformers, 480V distribution equipment, 120/208V house panel, airfield lighting control and monitoring system, constant current regulators (CCRs) and the 900KW emergency generator. The ALV will be equipped with HVAC, fire protection and a security system. The extent of the fire protection and security systems is yet to be determined. The ALV structure footprint is based on manufacturers' recommended clearances for the CCRs (stackable switchgear configuration) and other clearances per National Electrical Code (NEC) requirements and MAA maintenance input.

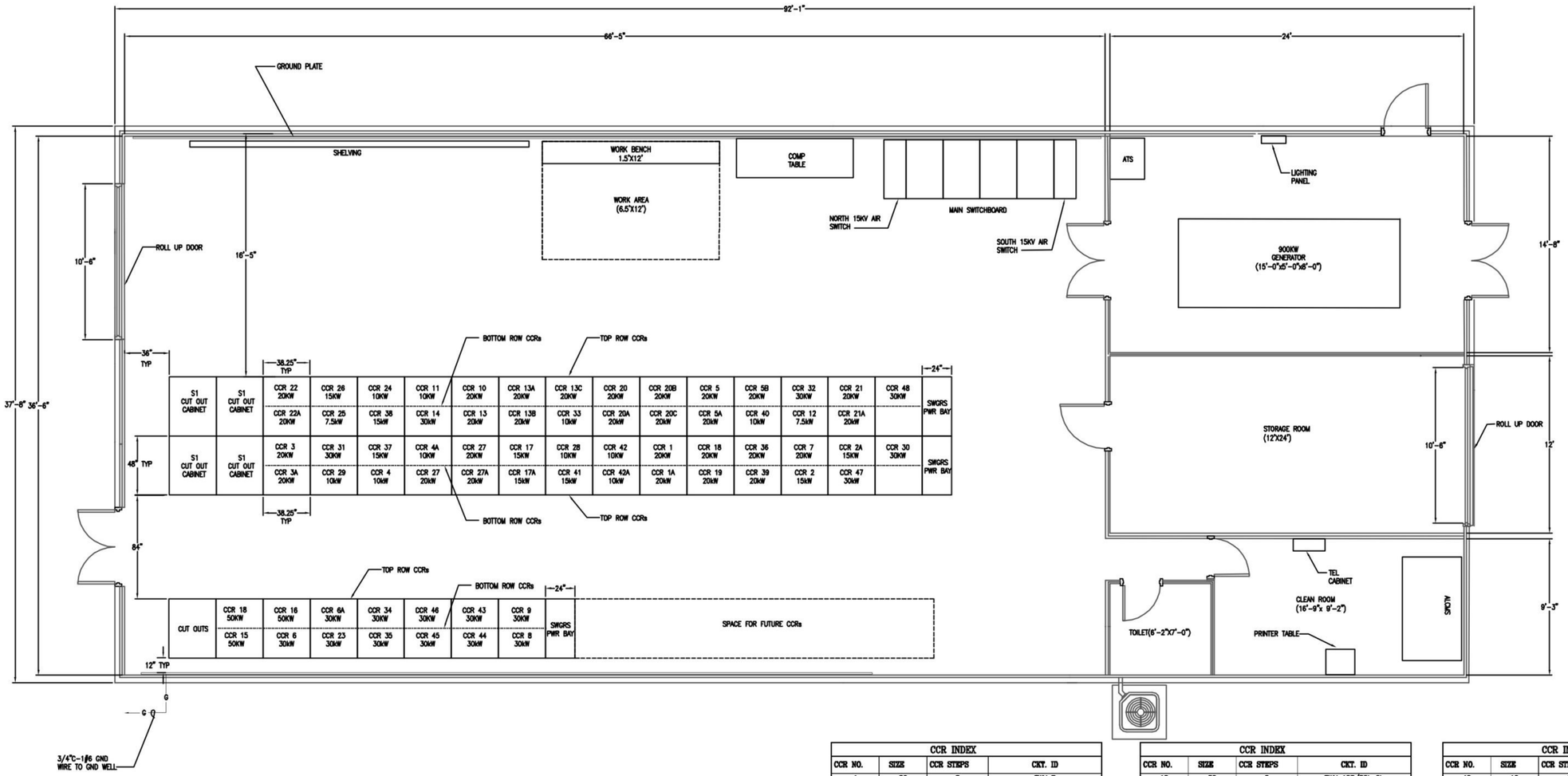
The overall building footprint is approximately 38 feet by 93 feet (3,534 ft^2). The proposed structure is fitted with a designated work area, a 288 square foot storage room, and a clean room that houses the computer, printer, and telephone cabinet. The proposed building also includes two roll up doors that can accommodate an F-350 or equivalently sized vehicle to enter the structure. The proposed site has adequate space to easily accommodate this structure including any additional office or workstation space that MAA may desire at the facility, other than what has already been included.

Exhibit 13 provides more detail on the ALV structure footprint dictated by the equipment listed above and **Exhibit 14** illustrates the proposed ALV on the proposed site.

As part of the transition to energize the new ALV, the existing South 15KV feeder will be disconnected from the existing ALV and connected to the proposed ALV. The proposed ALV will be temporarily fed by the South 15KV feeder and the existing ALV will retain its feed from the North allowing both ALVs to be energized during the transition period.

Additional information on the routing of the North and South 15KV feeders will be provided during conceptual design.

The time of completion for installation of equipment and power connectivity at the new vault is approximately three months.



1 ALV EQUIPMENT LAYOUT

SCALE: 1/4"=1'-0" (22"X34")
1/8"=1'-0" (11"X17")

CCR INDEX

CCR NO.	SIZE	CCR STEPS	CKT. ID
1	20	5	TWY B
1A	20	5	TWY B HOLD
1B	20	5	TWY C
2	15	5	TWY D1
2A	15	5	TWY D2
3	20	3	TWY J
3A	20	3	TWY M
4	10	3	TWY B NORTH
4A	10	3	TWY N
5	20	3	TWY B TO P1
5A	20	3	TWY P1 TO F
5B	20	3	TWY F TO 15R
6	30	5	TWY K
6A	30	5	TWY Q
7	20	5	RWY 15L/33R EDGE
8	30	5	RWY 4/22 EDGE
9	30	5	RWY 15R/33L EDGE
10	20	3	TWY H
11	10	3	TWY A, F TO 15R HOLD
12	7.5	3	TWY E CL
13	20	3	TWY E
13A	20	3	TWY Y1
13B	20	3	TWY Y2
13C	20	3	TWY A
14	30	3	RWY 10/28 EDGE
15	50	5	RWY 10/28 CL
16	50	5	RWY 10/28 TDZ
17	10	3	TWY R
17A	10	3	TWY S

CCR INDEX

CCR NO.	SIZE	CCR STEPS	CKT. ID
18	50	5	RWY 15R/33L CL
19	20	5	RWY 15R/33L TDZ
20	20	3	TWY FG
20A	20	3	TWY F
20B	20	3	15R DEICE
20C	20	3	RWY 33 ILS
21	20	3	TWY V
21A	20	3	TWY U
22	20	3	TWY U1
22A	20	3	U1 CL
23	30	5	RWY 10/28 EDGE EAST
24	10	3	RWY 15L/33R HOLD
25	7.5	3	RWY 15L/33R PAPI
26	15	3	TWY E STOPBAR
27	20	3	TWY R WEST TO G
27A	20	3	CARGO
28	10	3	RWY 10/28 ERGL
29	10	3	RWY 28 DEICE HOLD
30	30	5	SPARE
31	30	3	RWY 10/28 IPRGL
32	30	3	TWY R STOPBAR
33	10	3	TWY F CL
34	30	5	TWY A/B CL
35	30	5	TWY C CL
36	20	5	RWY 15R/33L IG
37	15	3	RWY 15R/33L EG
38	15	3	TWY P1 CL
39	20	5	TWY P1/B/422 RGL
40	10	3	RWY 15L/33R EG
41	15	3	RWY 15L REILS

CCR INDEX

CCR NO.	SIZE	CCR STEPS	CKT. ID
42	10	3	RWY 33R REILS
42A	10	3	TWY B CL
43	30	5	LOF 22
44	30	5	TWY P2 CL
45	30	5	TWY C2 CL
46	30	5	TWY U
47	30	5	TWY A2 CL
48	30	3	SPARE
19 FUTURE	30	–	SPARE

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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION

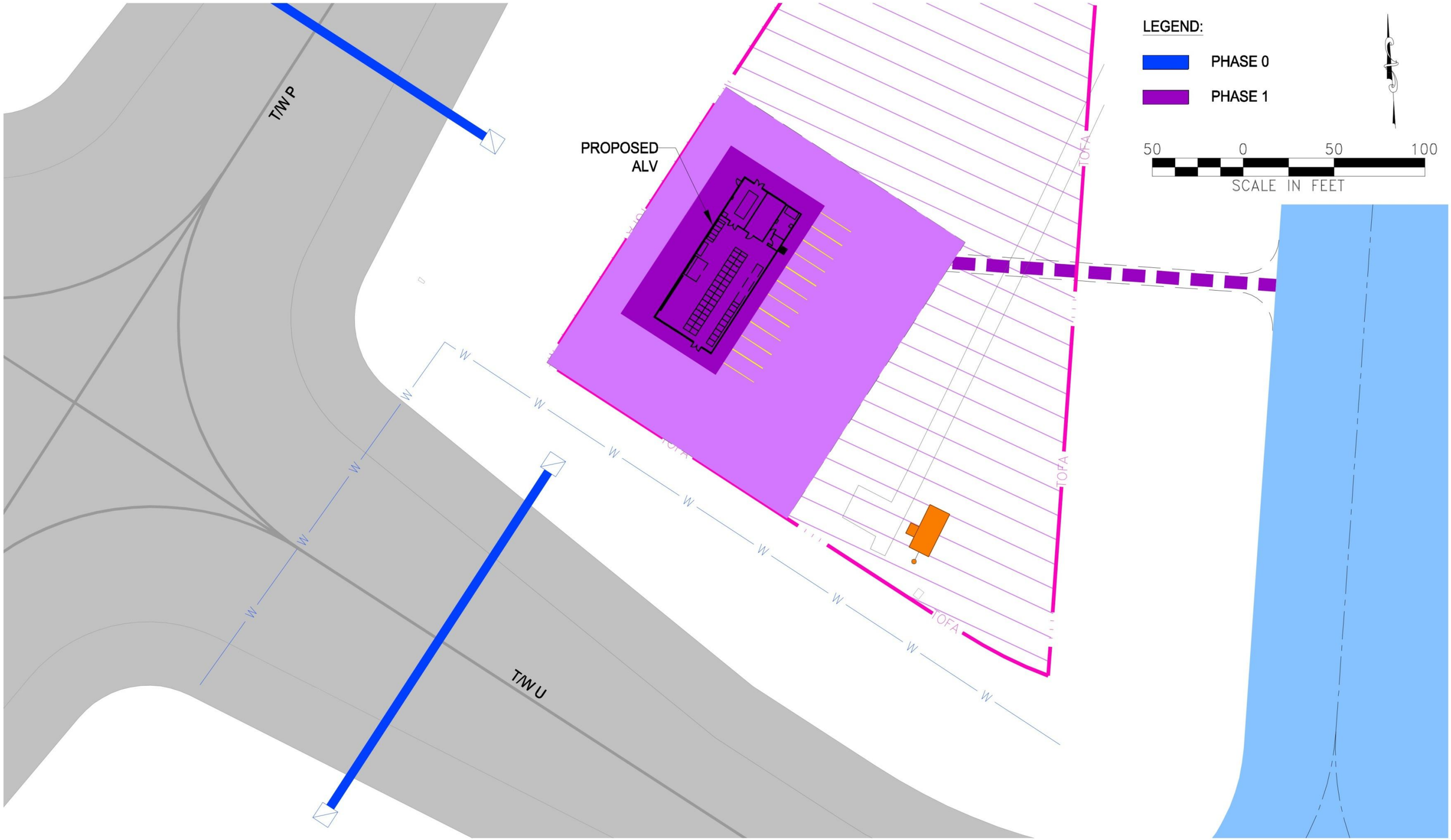
SHEET TITLE: PROPOSED ALV STRUCTURE AND EQUIPMENT LAYOUT

SCALE: AS SHOWN

DATE: May 2013

CONTRACT NO.:

SHEET NO.: EX-13



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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION		CONTRACT NO.:
SHEET TITLE: PROPOSED ALV FOOTPRINT		SHEET NO.: EX-14
SCALE: AS SHOWN	DATE: May 2013	

Phase 2. The demolition of the existing ALV would begin once the proposed ALV is fully operational. Below is the generalized sequence of demolition of the existing ALV:

- Tie-in the South 15KV feeder to energize the proposed ALV
- Connect the ATCT to the new ALCMS computer at the proposed ALV
- Energize the new communication, fire protection and security systems
- Splice airfield lighting circuits at demarcation areas.
- Remove unused and abandoned cables in the field and at the existing ALV
- De-energize the existing ALV
- Remove and salvage equipment at existing ALV
- Tie-in the North 15KV feeder to complete dual feed redundancy at proposed ALV
- Demolish existing ALV building
- Remove existing unused and abandoned manholes at the existing ALV site

It should be noted that several of the items listed above may be done concurrently. It should also be noted that this transition plan will probably require that some systems be out of operation for short periods of time.

The timing of the removal of existing utilities would be based on operational requirements, especially for ATCT connections and the glycol dump station adjacent to the existing ALV. It is likely that a majority of the ductbanks and manholes serving the existing ALV circuits could be removed once the new ALV is functioning, but some may be required to stay and continue to function. These details will be further defined during concept design. Any remaining underground infrastructure will need to be adjusted to future grades and be able to accommodate aircraft weights.

Demolition of the existing structure would take three months. The time required for the removal of existing manholes and ductbanks and the adjustment of those remaining will mostly occur during the demolition period. Some work will extend beyond that timeframe however.

Phase 3. Work in this phase includes completion of any remaining site paving after demolition of the building. Phase 3 also includes capping off functioning manholes that were left in place during Phase 2. Based on a review of the topography, the elevation of the existing ALV finished floor is slightly higher than the surrounding airfield pavements. A preliminary analysis indicates that site grading can be accomplished to address site drainage within FAA grading criteria. There are two existing inlets in the ALV infield that can be used but they would need to be adjusted to meet proposed grade requirements.

It is expected that the demolition, site and utility adjustments, and paving would take four months.

Phase 4. This phase would involve considerations for any major projects that may occur after the ALV relocation is complete such as the new ATCT or new and/or upgraded runways. Space for the regulators and new ducts was considered in the proposed ALV program so the proposed ALV footprint shown in **Exhibit 13** includes extra regulators for one new or upgraded runway.

Depending on what is decided for Runway 15L-33R, another option to consider is a supplemental vault to accommodate the lighting and control circuitry for this runway, located in the vicinity of the MAC Building. That is a topic for future study but will not affect the proposed ALV footprint recommended in this report.

The new ATCT would require connectivity to the proposed ALV. Depending on the timing of the new tower, and of the demolition of the existing ALV, that connection could be a direct run or could run through the existing ALV site.

Preliminary Implementation Plan

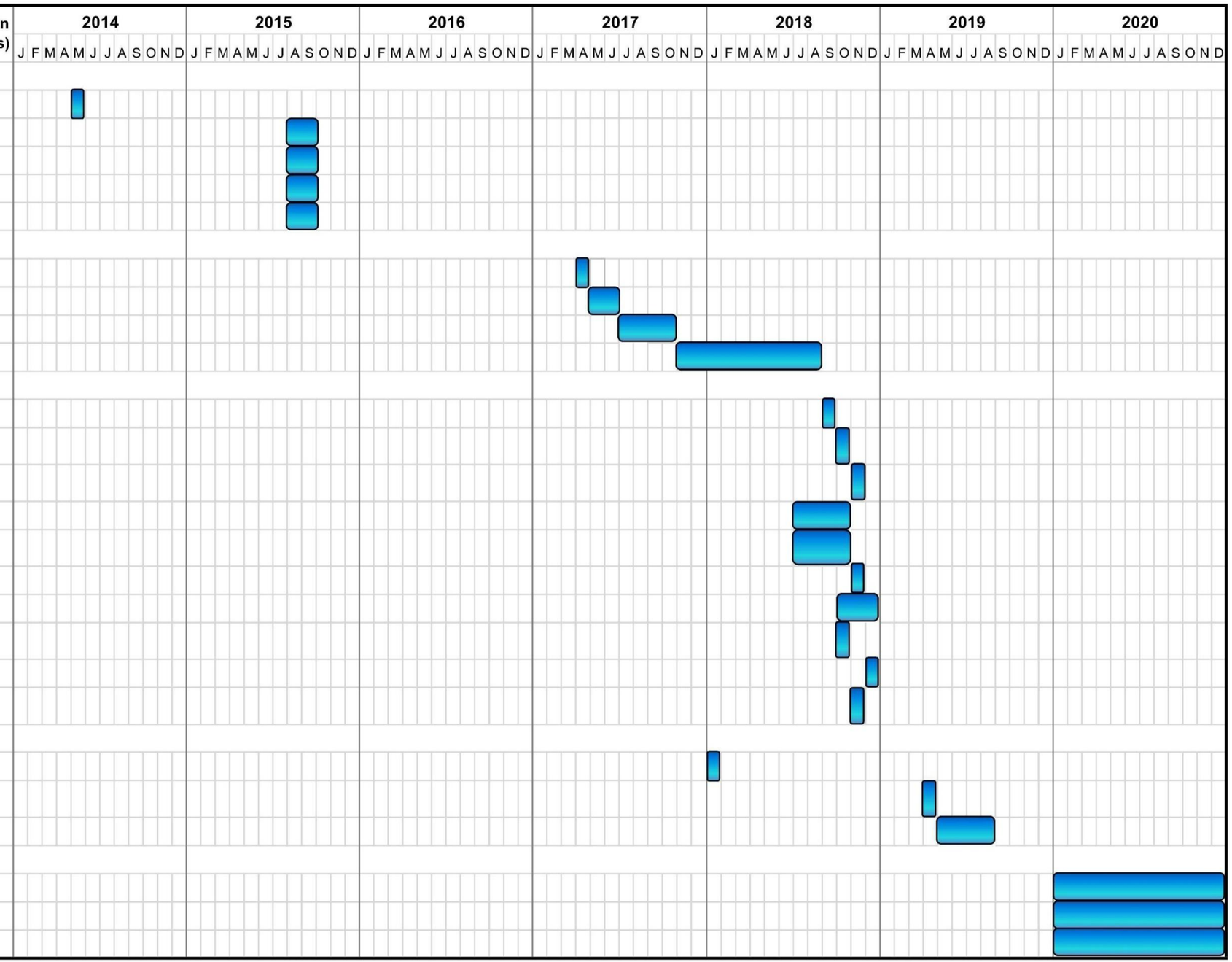
The preliminary implementation schedule considers all of the program elements necessary to support the construction of the new ALV and the related infrastructure and circuitry. **Exhibit 15** illustrates this schedule. Phase 0 elements would be incorporated into the RSA and EB-75 projects so the timing of those items is dictated by the three RSA programs. The schedule is based on dates reported by the RSA design teams, but they will need to be confirmed.

For phases 1, 2, and 3; MAA has the option of packaging them together or separating them into individual projects. The benefit of separate projects is that they allow for distribution of design work over a longer period of time and to different contractors. Benefits of a combined bid include consistency of construction (same contractor), an anticipated overall cost savings through economies of scale, and elimination of schedule coordination between contractors. For purposes of this schedule, it is assumed that the proposed ALV implementation phases would be packaged together and include the following elements:

Implementation Element	Duration
Schematic & Final Design (includes MAA review)	16 months
Procurement	6 months
Phase 1 Construction (facility, site, utilities, equip)	8 months
Phase 2 Construction (existing ALV demo)	3 months
Phase 3 Construction (apron infill paving)	4 months
Total	**37 months**

With an anticipated completion for Phase 1 of 2018, this would require that the project design start by 2015 because it will take 30 months to finish Phase 1. The subsequent phases occur over an additional seven months and need to be completed prior to 2020. Based on these durations, there is adequate time for all three design efforts to occur simultaneously. If the MAA decides to separate the work into individual bid packages, this timeline will need to be revisited.

Project	Duration (Months)
Phase 0: Enabling Construction: May 2014 - September 2015	
One ductbank under Twy R	1
Two ductbanks under Rwy 4-22 and Twy P	2
One ductbank crossing east of Rwy 4-22	2
One ductbank crossing under Taxiway U, west of Runway 4-22	2
Proposed ALV utility crossings under Twy U and Twy P	2
Phase 1: New ALV Construction: April 2017 - August 2018	
Extend stubbed utilities to proposed ALV site	1
Site grading	2
ALV facility construction	4
ALV equipment installed	10
Phase 2: Existing ALV Demolition: July 2018 - December 2018	
Tie-in the South 15KV feeder to energize the proposed ALV	1
Connect the control tower to the new ALCMS computer at the proposed ALV	1
Energize the new communication, fire protection and security systems	1
Splice airfield lighting circuits at demarcation areas	4
Remove unused and abandoned cables in the field and at the existing ALV	4
De-energize the existing ALV	1
Remove and salvage equipment at existing ALV	3
Tie-in the North 15KV feeder to complete dual feed redundancy at proposed ALV	1
Demolish existing ALV building	1
Remove existing unused and abandoned manholes at the existing ALV site	1
Phase 3: Ramp Pavement Infill: January 2018 - August 2019	
Pavement infill design	1
Remaing site prep including capping off of functioning manholes left in place	1
Site grading and paving	4
Phase 4: Future Projects: 2020 and beyond	
Connectivity to/from the new ATCT	12
Circuitry and ALV connectivity for new Runway 10R-28L	12
Circuitry and ALV connectivity for an upgraded Runway 15L-33R	12



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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION

SHEET TITLE: PRELIMINARY PHASING SCHEDULE

SCALE: AS SHOWN

DATE: February 2013

CONTRACT NO.:

SHEET NO.: EX-15

Findings - Section 2

This section of the report addressed the anticipated sequence of events and a preliminary implementation schedule for constructing a new ALV at the proposed site as shown on the approved ALP. Enabling tasks were identified that require close coordination with the ongoing RSA and EB-75 programs and stand-alone tasks that provide for the construction and energizing of the new ALV and the de-energizing and demolition of the existing ALV. This section serves as a point of departure for the commencement of concept design, and for coordination meetings with the RSA design teams to ensure that the proposed ALV can be built and put into service within the proposed timeframe. This should be accomplished with the least disruption to the currently ongoing projects, and ensuring airport operations remain as safe as possible.

Section 3: Site Access and ATCT Line-of-Sight Analysis

Introduction

Following the analysis of the physical ALV footprint and preliminary phasing and implementation plan, the site access and ATCT line of sight were evaluated. The site access and ATCT line of sight for the relocation of the ALV are critical to ensuring airfield safety and efficiency of operations. These considerations are also important to the MAA Maintenance and Operations staff because of their responsibilities on the airfield.

Site Access

The evaluation of vehicular access to the proposed ALV considered two distinctively different options – traditional above ground routes (one using existing pavement and one using new dedicated pavement), and a more complex underground tunnel route. These options are shown in **Exhibit 16**.

Analysis

There are three options available to MAA to access the proposed ALV from the terminal complex. The least expensive option would be to create a Vehicle Service Road (VSR) that utilizes existing airfield pavements to the greatest extent practicable, while incorporating a new short pavement segment from the Runway 28 deicing pad to the new ALV site. Routine use under this option would slightly impact aircraft operations as compared to the other options. The option to build a dedicated access VSR would be more expensive, but it would be aligned to have 90 degree intersections with the taxiways. It would still require contact with the ATCT because there are three taxiway crossings.

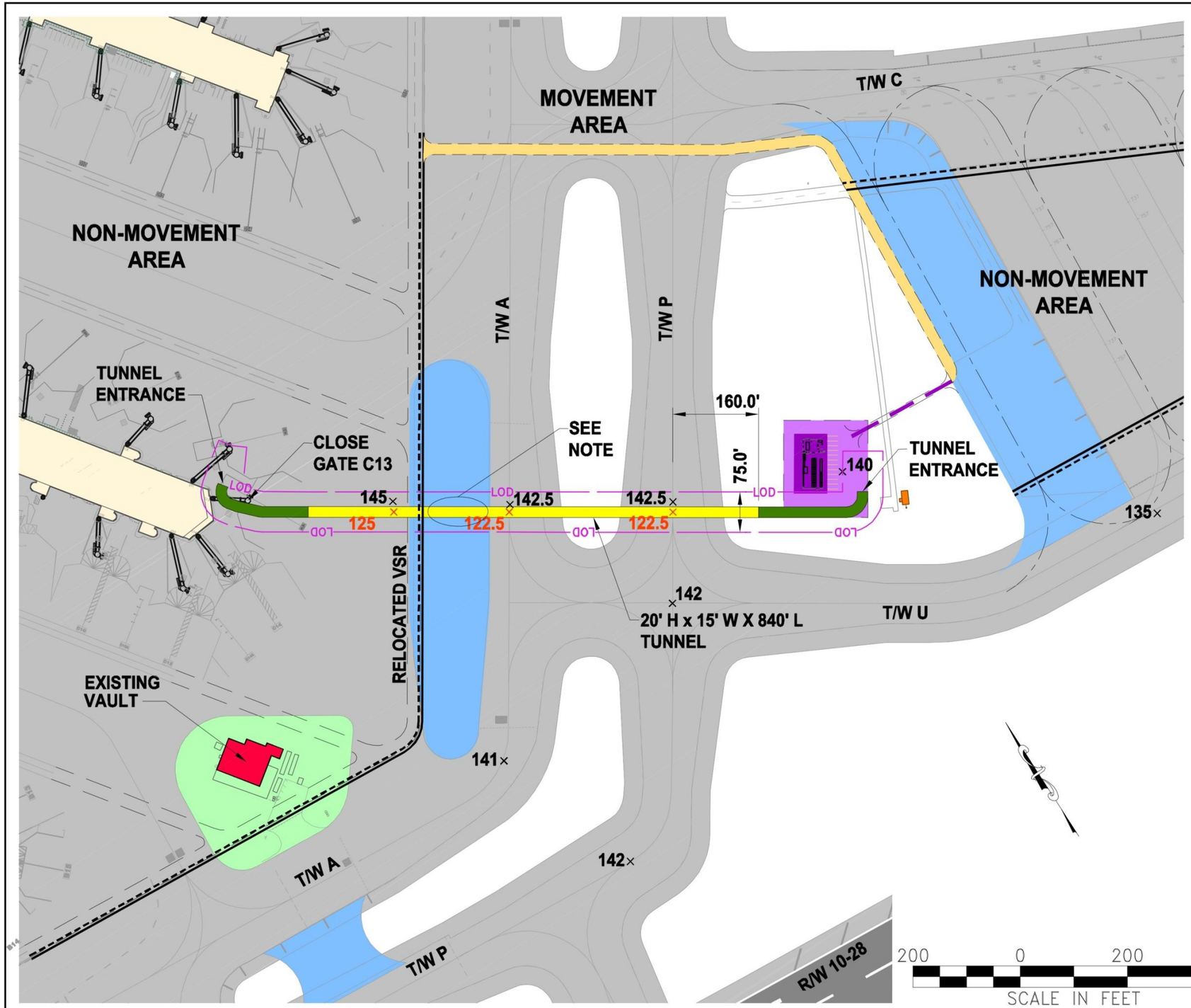
The final option evaluated was an underground tunnel route. It appears that if MAA is tolerable to short and potentially long term impacts related to creating an underground corridor, a route can be accommodated that would provide access to the ALV without having to contact the ATCT or enter into an active airfield movement area. There are several key components that would need to be decided before a definitive answer on the tunnel can be provided. Tunnel cross section, life safety requirements, acceptable impacts, construction timing and loss of an aircraft gate (C13) are a few of the key items that would require stakeholder input prior to making a recommendation or moving forward with the tunnel option versus the traditional overland VSR.

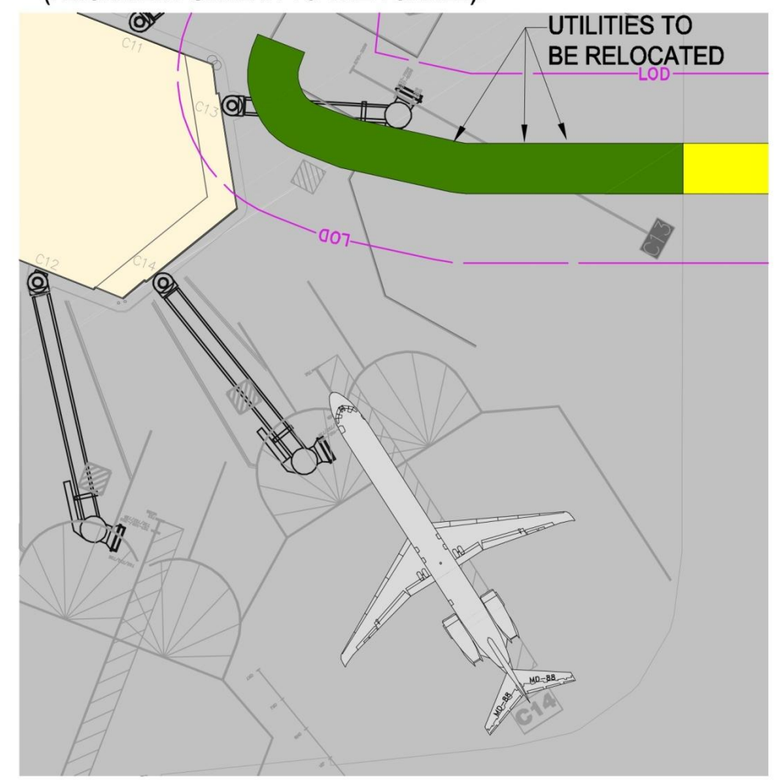
Our analysis considered several advantages, disadvantages, and assumptions for the below ground tunnel versus above ground options as follows:

LEGEND:

	PHASE 1		PHASE 2
	POTENTIAL TUNNEL		PHASE 3
	POTENTIAL COVERED RAMP	000 ×	POTENTIAL PAVEMENT ELEV.
	SURFACE ROUTE	000 ×	POTENTIAL TUNNEL ELEV. (INV.)
	PROPOSED AIRFIELD PAVEMENT		

NOTE:
ADDITIONAL OPTION TO USING T/W C AND THE RUNWAY 28 PAD FOR OVERLAND VEHICLES WOULD BE TO BUILD A NEW ROAD (ALIGNMENT SIMILAR TO THE TUNNEL).





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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION		CONTRACT NO.:
SHEET TITLE: POTENTIAL ALV ACCESS ROUTES		SHEET NO.: EX-16
SCALE: AS SHOWN	DATE: May 2013	

Advantages – Tunnel Option:	**Disadvantages – Tunnel Option:**
Safer due to less conflict with aircraft	Cost: $17.5 million more than other options[1]
No delays to ALV access	Potential conflict with airfield geometry revisions
No contact or disruption to ATCT to gain access to movement area	Significant airfield impact during construction
Potential for use as a utility tunnel to the airfield	Underground utility impacts
	Loss of aircraft Gate C13
	Long term maintenance/access
No MAA escorts needed to get vendors and other visitors to the ALV	Ventilation/life safety concerns
	Environmental Impacts
Eliminates potential congestion with vehicles queuing in VSR to cross to ALV	Snow removal considerations
	Steep grades at entrances

Analysis Summary

- 20 feet wide x 15 feet tall tunnel section, resulting in a 75-foot wide limit-of-construction
- Ramps would need to be 10% maximum slope and covered
- Ventilation would be required
- Cut-and-cover construction required to accommodate aircraft loading
- Unknown if all impacted utilities can be relocated
- Construction would need to precede the ALV relocation, resulting in ALV schedule impacts
- Unknown if it will be acceptable to close Gate C13 parking position
- Dedicated VSR would be required and would need to be 24 feet wide with six-foot shoulder

[1] See detailed program estimate in Appendix B

Access Recommendation

Considering the substantial order of magnitude cost differential between the options versus the comparative functionality, the new VSR above ground option would provide suitable access with minor inconvenience to airport operations, and is the recommended solution to the proposed ALV access.

ATCT Line of Sight

A critical element of confirming the suitability of the proposed ALV site is ensuring that the new facility does not interfere with lines-of-sight from the proposed ATCTs. There are two preferred candidate sites still under investigation by the MAA. They are Site 2A (located in the Manager's Parking Lot), and Site 12 (located in the D-E Concourse area).

The sites were evaluated to confirm that the relocation of the ALV does not obstruct visibility of the movement areas on the airfield from these two ATCT sites. This is an important consideration because the proposed ALV site is adjacent to existing and proposed taxiways that could potentially be impacted by the ALV shadow. The findings of the line-of-sight analysis are discussed below.

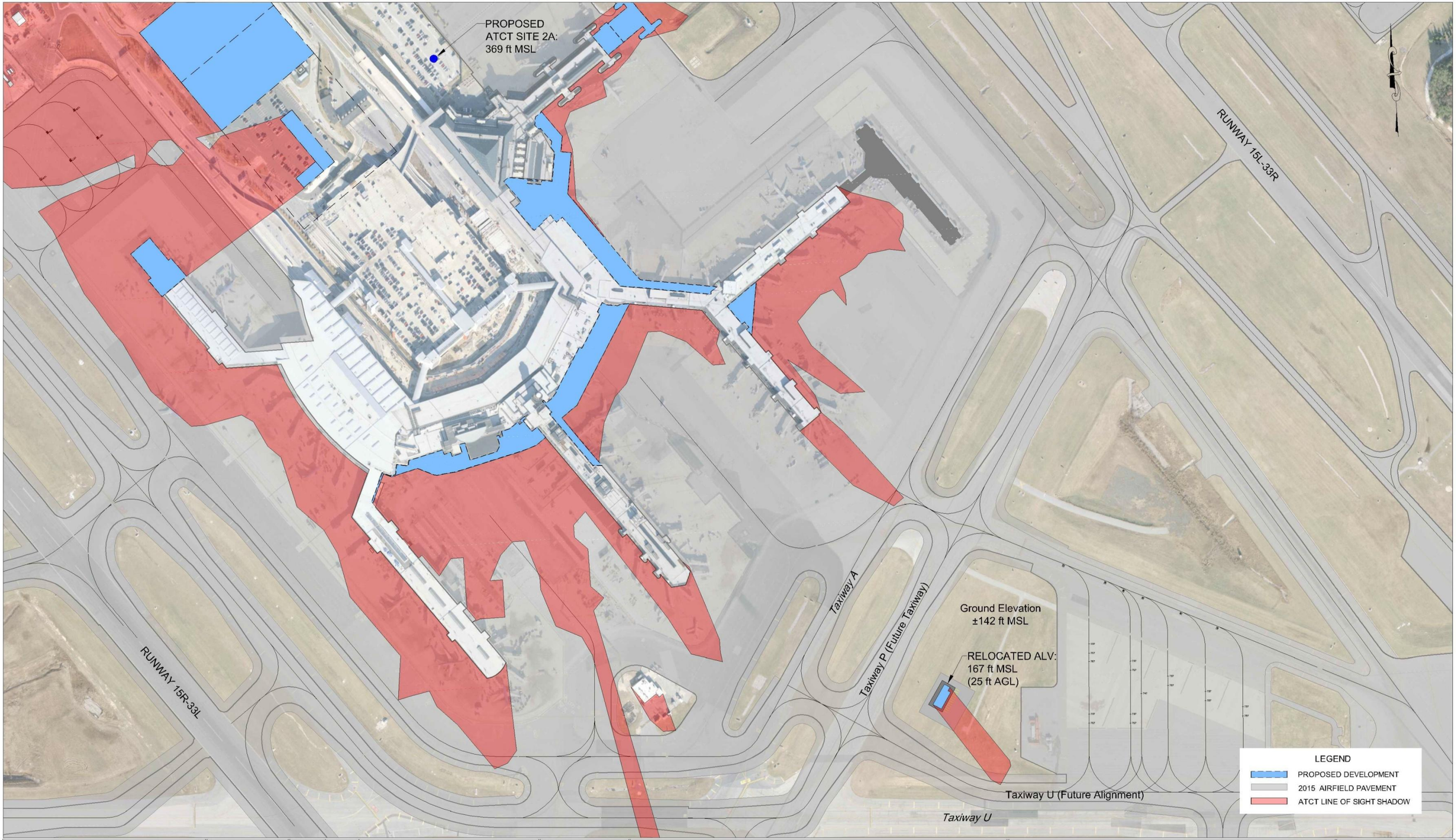
Findings – Section 3

The line-of-sight analysis was based on the following assumptions and parameters:

- Proposed ATCT heights were derived from the MAA's session at the FAA Airways Facilities Tower Integration Laboratory (AFTIL) held during the week of February 13, 2012. The controller eye height is assumed to be 30 feet lower than the listed top of tower heights.
  - Site 2A: 369 feet MSL top of tower
  - Site 12: 378 feet MSL top of tower
- Existing ALV roof height is ± 14 feet Above Ground Level (AGL).
- The proposed ALV roof height was estimated at a conservative 25 feet AGL to account for potential rooftop appurtenances
- Future 2015 Taxiway U and P alignments were based on the latest ALP.

Exhibits 17 and **18** illustrate the findings of the LOS analysis for each ATCT site.

The relocated ALV does not impact the line–of-sight for either of the future ATCT locations. The shadow of the ALV from Site 2A reaches a portion of the taxiway shoulder; however the taxiway edge and centerline are not impacted. The Site 12 shadow from the relocated ALV does not encroach on the future alignment of Taxiway U at all. Therefore, the proposed ATCT sites will not be affected by the relocation of the ALV; provided the building does not exceed 25 feet AGL.



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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION

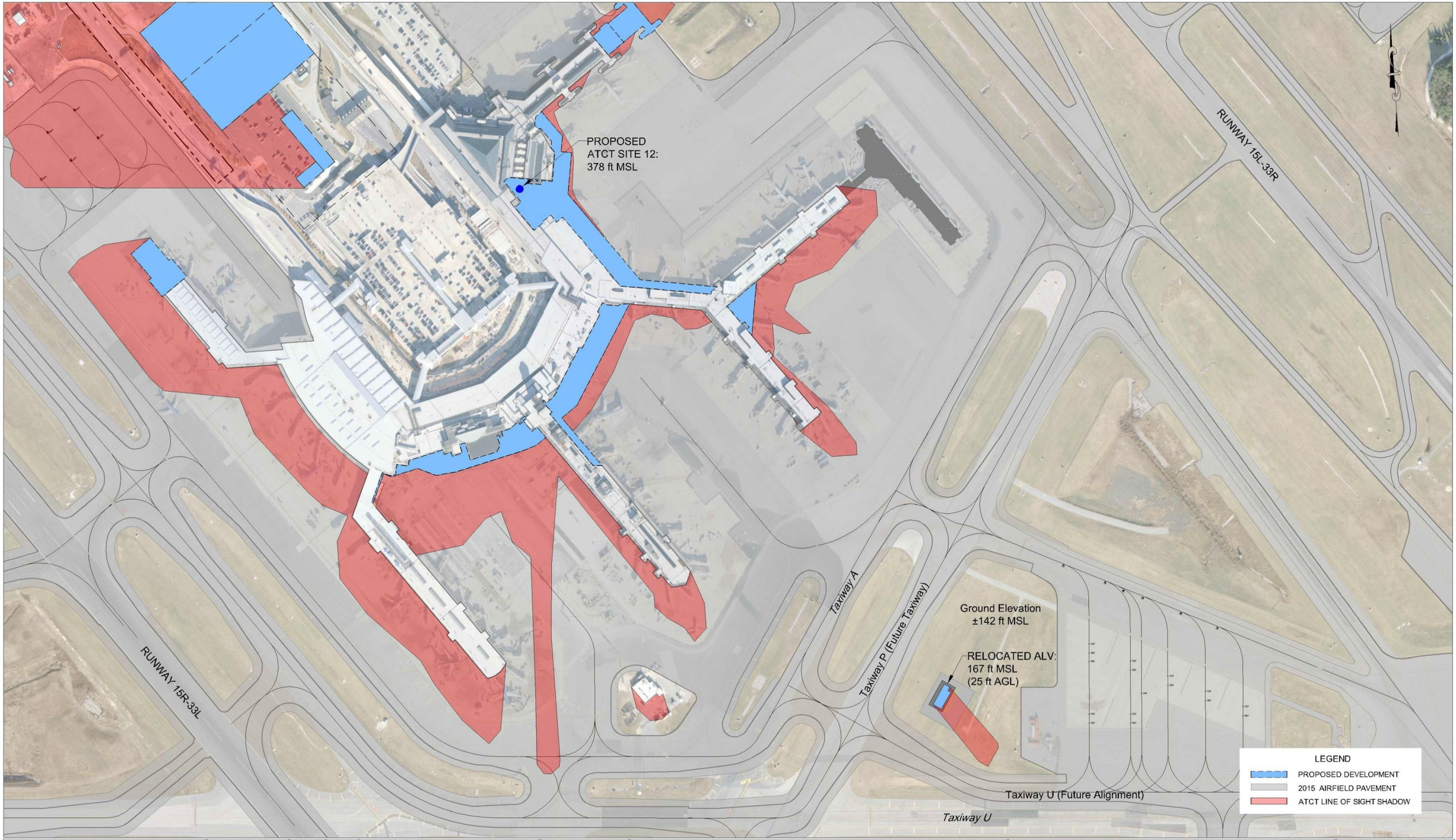
SHEET TITLE: PROPOSED ATCT SITE 2A SHADOW STUDY

SCALE: AS SHOWN

DATE: February 2013

CONTRACT NO.:

SHEET NO.: EX-17



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PROJECT TITLE: AIRFIELD LIGHTING VAULT (ALV) RELOCATION

SHEET TITLE: PROPOSED ATCT SITE 12 SHADOW STUDY

SCALE: AS SHOWN

DATE: February 2013

CONTRACT NO.:

SHEET NO.: EX-18

Phase 1 Analysis Summary

The ALV Relocation Study Phase 1 report serves as the point of departure for the conceptual planning effort and provides clear guidance for the commencement of concept design, or Phase 2.

The key first steps for embarking on Phase 2 – Concept Design – include further coordination meetings with the RSA and EB-75 program design teams on the Phase 0 enabling work. That includes confirming the best alignments for any ducts or conduit proposed to be located under pavement, either existing or new, associated with those programs. Other items that need to be coordinated with those design teams, as well as with the MAA Electrical Department include confirmation of splice points, and identification of which junction boxes and other underground structures can remain in place versus those that have to abandoned and relocated.

Another critical step is to obtain consensus on the preferred access option to the new ALV, which can be accomplished concurrently with the aforementioned coordination meetings.

Appendix A: Technical Memorandum #1

TECHNICAL MEMORANDUM #1 – JUSTIFICATION NARRATIVE AND EXISTING DATA COLLECTION AND REVIEW

To: Alex Ollerman, P.E.
Task Manager

Wayne Schuster, AICP
Director OPES

From: Allan A'Hara
Project Manager

Subject: **Justification Narrative and Existing Data Collection and Review**
Airfield Lighting Vault (ALV) Relocation
MAA-AE-11-005 – Task 019
Baltimore/Washington International
Thurgood Marshall Airport (BWI Marshall)

INTRODUCTION:

The purpose of the Airfield Lighting Vault (ALV) relocation study and concept design is to identify and address all potential issues related to the proposed location of the future vault as shown on the approved ALP. **Exhibit-1 – Future ALP** – illustrates this location[2]. In accordance with the scope of work proposed for this study, the AECOM team is providing Technical Memorandum #1 (TM-1) that includes a justification narrative for the proposed relocation and the ALV work history documentation collected and evaluated to initiate the ALV relocation analysis.

As the ALV provides a power source for the entire airfield lighting system, the proposed relocation requires analyses and evaluation to identify and address all elements related to the relocation with the goal to ensure a smooth transition from the existing to the new ALV. In order to complete this analysis, the AECOM team will evaluate the following elements:

- Proposed Location Justification and Work History Documentation (TM-1)
- Surface Airfield Geometry Impacts (existing and future)
- Subsurface Utility Conflicts (existing and future)
- Utility Incorporation and Assessment
- Splicing and Demarcation Points
- Phasing and Transition of Existing Vault to Proposed Vault
- Scheduling and Timing of Construction
- Budgeting and Costs

Ultimately, all of these items will be addressed as part of this analysis; however, TM-1 provides the evaluation on the proposed location and collected documentation used for

2 All exhibits are located in Appendix A to this study

this study. Additional memoranda and concept design documents will comprehensively address the remaining issues. The final deliverable will be a standalone report and concept design documents comprised of these interim technical memoranda.

BACKGROUND:

The existing ALV at BWI Marshall was originally the Air Rescue Fire Fighting Station (ARFF) and was never intended to remain the ALV for an extended period of time. Although the vault layout makes optimal use of the available space and is well organized, the vault footprint is based on its former function as an ARFF Station and is not typical of a new vault layout. The existing ALV also has dated equipment and infrastructure and currently houses Maryland Environmental Services (MES) glycol monitoring and glycol storage control equipment as well as a Glycol Recovery Vehicle (GRV) dump location.

Most importantly, the current location severely impacts the flexibility and maneuverability of aircraft to and from the Concourse B-C apron “alley”. Further, the existing ALV lies in close proximity to aircraft traffic in the terminal ramp non-movement areas that are not under tower control.

In summary, the current ALV location causes a pinch point for aircraft circulation on and around the terminal ramp system as described above. In addition, Airport Design Group (ADG) V aircraft cannot taxi past the ALV on the ramp and the building severely limits the ability to install an ADG V dual taxiway system around the ramp. That dual taxilane system is considered critical to the efficiency and safety of the overall ramp operation.

As the MAA updated the BWI Marshall ALP, they took the opportunity to propose the relocation of the facility to accomplish several benefits for the airport that include:

- **Reliability:** Upgrade a key component of safe operations at the airfield and improve reliability for a mission-critical but dated facility. All airfield lighting equipment installed in the new ALV will be selected to facilitate maintenance of the ALV and equipment and to provide a more seamless transition from switching existing airfield lighting controls to the new airfield lighting vault.

- **Capacity and Safety:** Improve airport capacity by replacing the existing ALV with taxiway and apron pavement to provide more aircraft parking and allow for more efficient and safer taxiing and that also resolves the Engineering Brief No. 75 potential runway incursions that exist within the current airfield geometry.

- **Utility Infrastructure Organization:** Organize and improve the underground utility infrastructure that exists in the area today. Thousands of linear feet of unorganized cable are located within the existing location and surrounding areas.

- **Resolution of Drainage Issues:** Resolve existing drainage issues that have been problematic both within the existing vault footprint and within the lighting ductbank

system. This includes the introduction of better insulated cable as well as new ductbank runs with no water intrusion.

Relocating the ALV is justified for the above-mentioned reasons. However, prudent management of all the issues associated with this relocation is critical in advance of the design effort. This memorandum identifies the issues associated with the relocation that must be evaluated programmatically so this relocation fits seamlessly with all the proposed airfield improvements and without conflict for the safe and proper functioning of the airfield.

Proposed Location Evaluation:

Airfield Geometry. In determining a potentially feasible location and footprint for the relocated ALV, the first step was to consider existing and proposed airport geometry. The location of the ALV as shown on the ALP was the starting point for this analysis. That site is surrounded by Taxiways U and C, Runway 4-22, and the 28 Deicing Pad. As the relocation is not proposed to occur until after 2015, the airfield geometry was based on the proposed construction and layout after that date. Both the existing and proposed taxiway object free areas (TOFA) for ADG V aircraft (160 feet from centerline) were checked to confirm clearance. Also, since Runway 4-22 will be decommissioned and converted to a taxiway (P) prior to the ALV relocation, the proposed site was evaluated based on the 160-foot taxiway clearances as well.

Exhibit 2 – Relocated Vault 2015 Conditions – illustrates this enlarged site area as a triangular shape outside the TOFAs. Taxiway C is remote enough to only limit the northern top corner of the triangular site. The east side of the triangular space is in close proximity to the proposed 28 Deicing Pad upgrade as shown on the ALP. The geometry of the deicing pad is being evaluated by AECOM under a separate task and the findings will be incorporated into this task. At this time, the Taxiway U geometry and proposed Taxiway P geometry are more fixed than the 28 Deicing Pad, so we based the proposed concept footprint more on the OFAs of the two taxiways than on the deicing pad. However, the site is clear of the outside lane for the proposed pad when considering an ADG V OFA.

This analysis shows that the entire area depicted in Exhibit 2, which includes the specific site identified on the ALP, would be free of conflicts. This general location provides more flexibility to the planning and design teams to locate the facility. The exact location will be defined during the concept design stages and will include all necessary square footage to ensure that sufficient space is available for all of the planned construction in the vicinity.

Future FAA Design Requirements. AC 150-5300-13A requires the separation of taxiways with 180-degree turns to be 350 feet. This can impact the space available for the ALV because the current ALP has a 300-foot separation (based on the conversion of Runway 4-22 to a taxiway), while the current standard is a 267-foot separation. This increased separation requirement could limit the ALV site on the northwest corner. In general, the impact of this revision to standards could be significant. MAA is coordinating with FAA through formal comments on the AC to confirm that this

separation requirement would be required for existing airfield conditions. The AECOM team will participate in the resolution of this potential impact and if necessary, develop concept design efforts will ensure the building footprint would comply with this requirement.

Airspace Issues. We also evaluated the height limitations and airspace impacts. The closest point of the proposed site would be over 800 feet away from the centerline of Runway 10-28 (elevation of 142 feet MSL) at a finished floor elevation of approximately 150 feet MSL. The FAR Part 77 transitional surface allows for the structure to be 36 feet AGL in that location without penetrating that transitional surface. Additional height could be gained if the overall sight is lowered. Therefore, this site is deemed acceptable for the ALV from a Part 77 standpoint.

It was also determined that this location will function from a horizontal and vertical geometry standpoint. This functionality is based on surface analysis based on both existing and proposed improvements planned at the airport.

Access. There are no notable access issues for this proposed site. In fact, the site is relatively easy to access for MAA personnel on a day to day basis although tower contact will be required to access the facility. While this is more cumbersome than it is today, it does create a safer situation for the interaction of MAA personnel with taxiing aircraft as tower communication is required. It is also more secure as personnel in non-movement areas will not have uncontrolled access to the facility.

A vehicle roadway will be required to provide direct access from the airfield to the building. And, since this building will likely have low frequency access needs – predominantly for servicing only – additional roadways to keep surface vehicles outside the movement areas are probably not required.

Discussions held with MAA Planning have concurred that the new site will not be expected to accommodate the glycol monitoring and GRV dumping that occur at the existing facility. Relocation of those activities will be completed as a separate study. Therefore, GRV access to the new facility is not required.

Underground Infrastructure. In order to further refine the new site location and determine its true feasibility, the team started identifying the routing of the electrical infrastructure heading to the existing ALV. **Exhibit 3 – Future Vault and Utilities** – shows this infrastructure. This routing will ultimately be used to define logical demarcation points where the circuits can be rerouted to the new ALV location. This analysis may affect the optimal ALV location on the site and will be fully developed during concept design. Completion of this evaluation will require a thorough analysis of existing as-built information from previous projects and some field verification.

Work History Documentation Collected and Reviewed

The team has already initiated a detailed analysis of the available work history and as-built documentation and has identified several ductbanks that have unknown circuitry. The key document for the as-built evaluation comes from the recent Cable and Drainage Upgrades project that included some detailed survey of existing infrastructure and circuitry. Table 1 lists this project and other material being collected and reviewed for this study.

Table 1: Projects Considered in Data Collection:

REPORT	DATE
Airfield Lighting Control and Monitoring System: Submittal Release	June 2012
Existing ALV Site Investigation and Photos	May 2012
Airfield Lighting System Cable and Drainage Upgrades (Record Drawings – MAA-CO-08-016)	October 2010
BWI Manhole and Hand Hole As-Built Survey	January 2012
Pier A Airfield Improvements (Record Drawings – MAA-CO-01-005)	December 2003
Runway 10-28 Runway Safety Area, Pavement Rehabilitation and Standards Compliance (Conformed Drawings – MAA-CO-12-008)	April 2012
Runway 15R-33L RSA Improvements (30% Drawings)	September 2011
Runway 15L-33R RSA Improvements (90% Drawings)	July 2012
Airfield Lighting System Cable and Drainage Upgrades	January 2008
Airfield Lighting Vault Capacity Study	2007
Airport Layout Plan	February 2011
Taxiway Uniform Relocation (Drawings TBD)	TBD
Runway 4-22 Conversion into Taxiway P (Drawings TBD)	TBD
ATCT Location Study	Ongoing
Phase II Comprehensive Stormwater Management Report	December 2003

Outstanding Issues:

Confirmation of all building requirements to determine sizing and needs will require additional information and study. Items such as regulator needs and sizes, emergency generator requirements, and surrounding manholes for splicing will be determined with more MAA input and as the study progresses. The items that currently need to be resolved through either further study or based upon input from MAA stakeholders include the following:

- Disposition of the existing ALV equipment identified for demolition; removal, disposal, re-use or to be abandoned
- Reuse of existing ducts underneath existing paved and unpaved areas
- Regulator size availability and limitations on maximum sizing
- Additional space required in the vault for maintenance personnel such as office, workstations and benches
- Spare regulator requirements

In addition, the AECOM team requests confirmation of the following assumptions made to determine the overall footprint of the new ALV site:

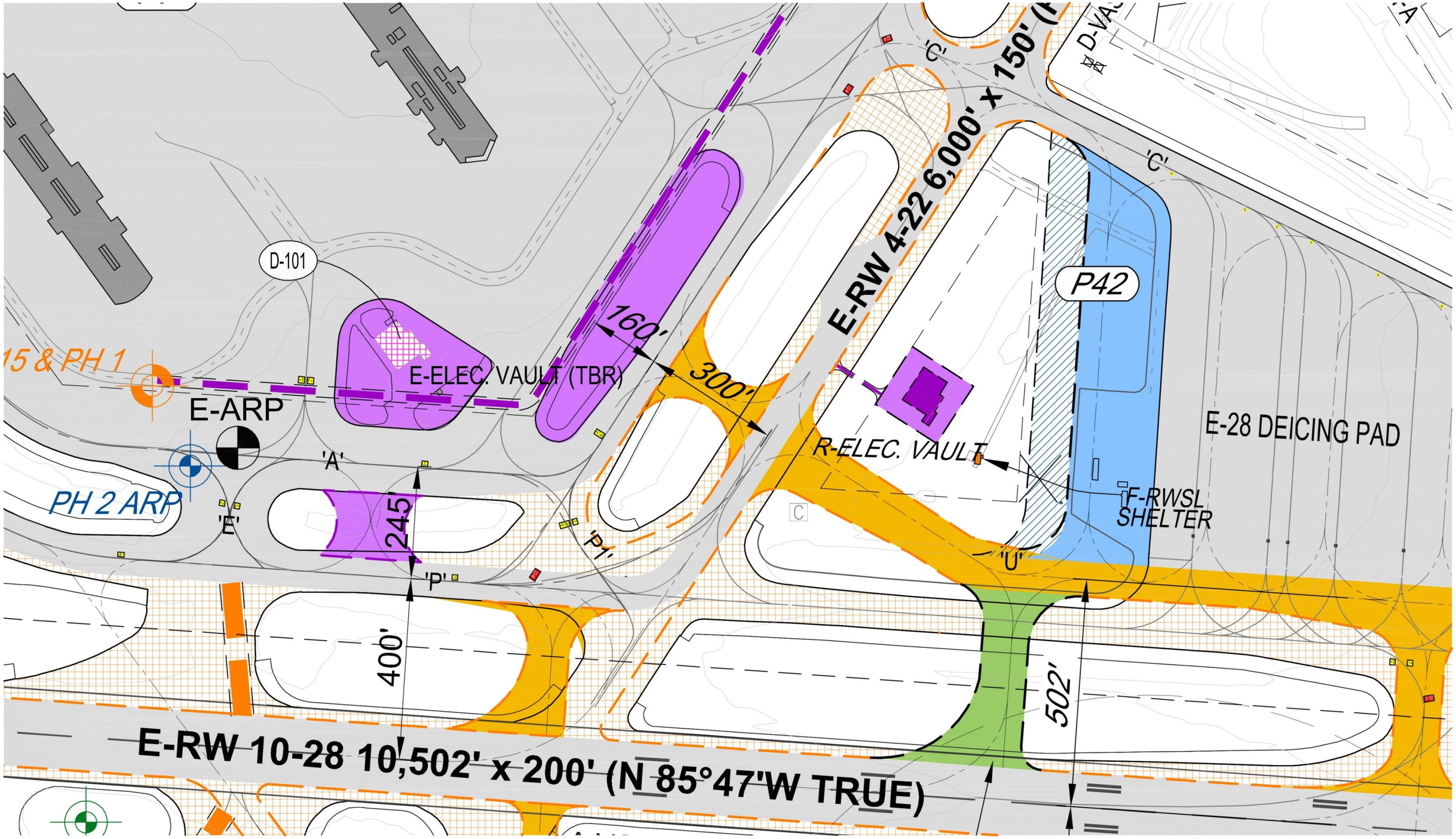
- Constant current regulator (CCR) layout will be based on single standalone configuration
    - Size of each unit is based on largest FAA approved CCR (30kW) for new designs
    - Spacing will be based on based on manufacturer's recommendation, not less than 12-inch clear on the sides and rear and four feet minimum clearance in front of the CCRs
- Space will be provided for future CCRs including requirements as shown on the ALP
- The new standard for stand-by generator size is now 900kW

Conclusions:

Based on the preliminary evaluation performed as part of this task, the AECOM Team has determined that the relocation of the existing ALV is justified from an airfield operational and safety standpoint. Further, we have determined that there are no considerable defects to the facility location shown on the approved ALP. Underground infrastructure impacts have been evaluated at a programmatic level and will be further studied to confirm viability with existing ductbanks. Access and Security for the location have also been considered. Overall, this location does not have any significant obstacles that would prevent its implementation and it meets the needs of the facility as originally studied during the ALP process.

Appendix A Exhibits

- **Exhibit 1 – Future ALP**
- **Exhibit 2 – Relocated Vault 2015 Conditions**
- **Exhibit 3 – Future Vault and Utilities**



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PROJECT TITLE: ELECTRICAL VAULT RELOCATION		CONTRACT NO.:
SHEET TITLE: FUTURE ALP LAYOUT		SHEET NO.: EX-1
SCALE: AS SHOWN	DATE: JUNE 2012	

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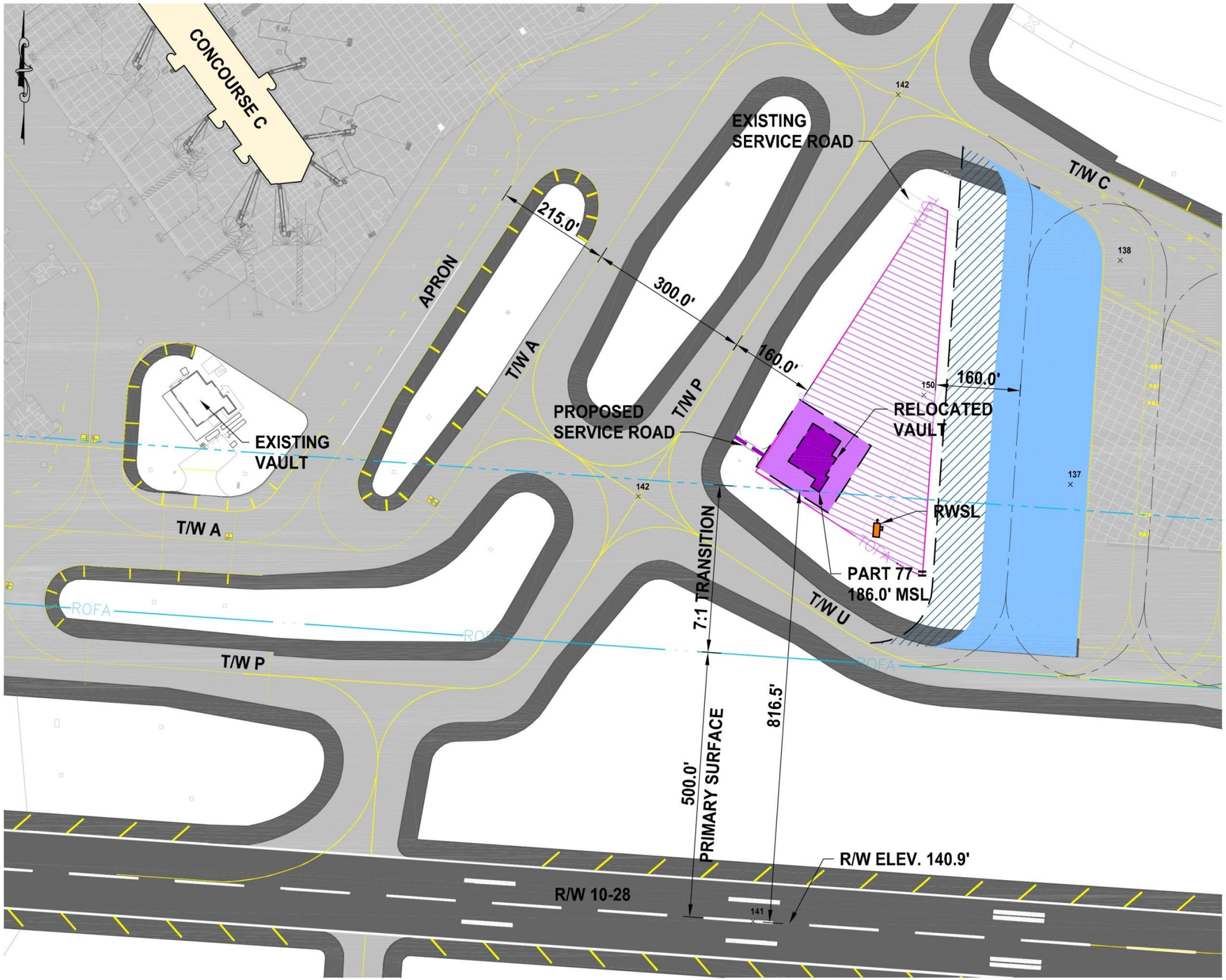

NOTES:

EXISTING ELEVATION 150.0'
MAX. BUILDING ELEV. 36.0'
R/W 10/28 PART 77 ELEV. 186.0'

LEGEND:

POTENTIAL SITE LOCATION

PROPOSED ALP SITE

200 0 200 400

SCALE IN FEET

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BALTIMORE/WASHINGTON INTERNATIONAL AIRPORT

PROJECT TITLE: ELECTRICAL VAULT RELOCATION

SHEET TITLE: RELOCATED VAULT USING 2015 CONDITIONS

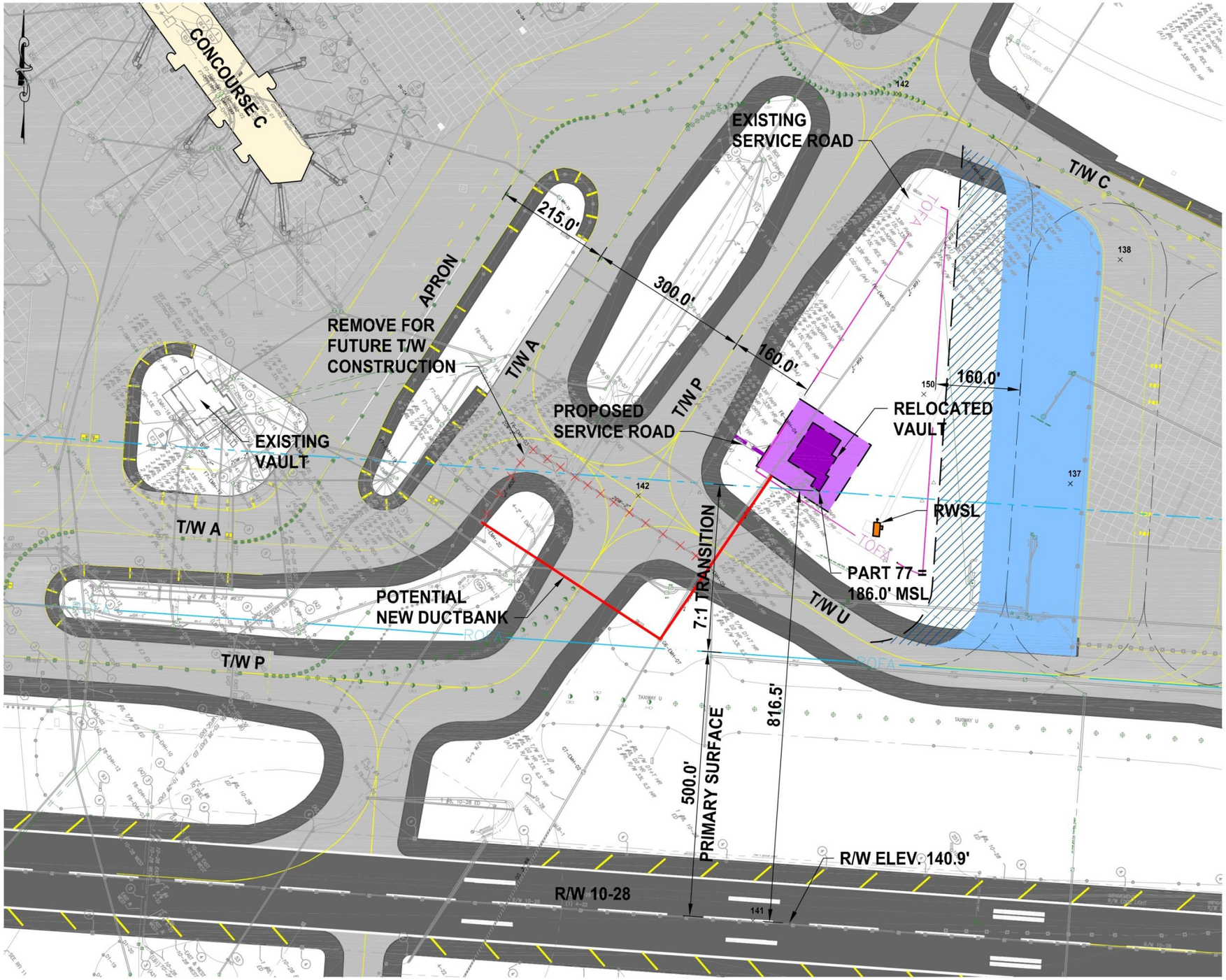
SCALE: AS SHOWN

DATE: JUNE 2012

CONTRACT NO.:

SHEET NO.: EX-2

FILE NAME: P:\Airport\BWI\Projects\2012-2805\CAD\EXHIBITS\C-EB-FUTR.dwg LAYOUT NAME: Layout1 USER: JWenck PLOTTED: Friday, July 06, 2012 - 11:52am



NOTES:

EXISTING ELEVATION 150.0'
MAX. BUILDING ELEV. 36.0'
R/W 10/28 PART 77 ELEV. 186.0'

200 0 200 400
SCALE IN FEET

AECOM
ADCI

DESIGNED:	R.E.S.		
DRAWN:	J.M.W.		
CHECKED:	K.M.F.		
APPROVED:	C.A.J.	REVISION NO.:	REVISION DATE:	DESCRIPTION:

BWI BALTIMORE/WASHINGTON INTERNATIONAL Thurgood Marshall AIRPORT

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND AVIATION ADMINISTRATION
FACILITIES DEVELOPMENT & ENGINEERING
OFFICE OF PLANNING & ENVIRONMENTAL SERVICES
BALTIMORE/WASHINGTON INTERNATIONAL AIRPORT

PROJECT TITLE: ELECTRICAL VAULT RELOCATION

SHEET TITLE: RELOCATED UTILITIES USING 2015 CONDITIONS

SCALE: AS SHOWN

DATE: JUNE 2012

CONTRACT NO.:

SHEET NO.: EX-3

FILE NAME: P:\Airport\BWI\Projects\2012-2805\CAD\EXHIBITS\C-FB-FUTR-UTIL.dwg LAYOUT NAME: Layout1 USER: JWenck PLOTTED: Friday, July 06, 2012 - 11:53am

Appendix B: Tunnel Program Cost Estimate

PROPOSED VSR TO THE PROPOSED AIRFIELD LIGHTING VAULT
Engineer's Estimate - All costs
December 11, 2012

ESTIMATING LEVEL: ☐ Budget ☑ Concept ☐ 30% ☐ 60% ☐ ☐

ITEM	DESCRIPTION	UNIT	UNIT COST	QUANTITY	TOTAL	COMMENT
	CONSTRUCTION COST ESTIMATE					
X-1-4.1	SECURITY REQUIREMENTS DURING CONSTRUCTION	PER DAY	$1,500.00	20	$30,000	
X-5-4.1	MOBILIZATION/DEMOBILIZATION & CONSTRUCTION LAYOUT SURVEYING	LS	$11,800.00	1	$11,800	
X-6-5.1	TEMPORARY CONSTRUCTION ITEMS	LS	$12,390.00	1	$12,390	
		LS				
	E&S/SWM	LS	$20,000	1	$20,000	
	NEW VSR PAVEMENT	SY	$80	1,000	$80,000	
	PAVEMENT MARKING	SF	$3	1,000	$3,000	
	GLYCOL RELOCATION	LS	$75,000		$0	
	ELECTRICAL RELOCATION	LS	$15,000	1	$15,000	
	UNCLASSIFIED EXCAVATION	CY	$20		$0	
	PAVEMENT MARKING REPLACEMENT	SF	$10		$0	
	PBB REMOVAL	LS	$25,000		$0	
	COVERING OF ENTRANCE	SF	$20		$0	
	AFL REPLACEMENT (FREE EDGE)	LF	$150		$0	
	TUNNEL-LIGHTING	LF	$75		$0	
	TUNNEL-VENTILATION	LS	$150,000		$0	
	TUNNEL-DRAINAGE (SUMP PIT)	LS	$75,000		$0	
	TUNNEL- PORTLAND CEMENT CONCRETE	CY	$650		$0	
					$0	
Special Systems	BAS (Metasys)					
	FAS (Honeywell)					
	CASS					
	CCTV					
	BGE					
	Verizon					
	BHS (Baggage Handling Systems)					
	Other Systems (Specify) (Johnson Controls 262816-5.3)					
SUBTOTAL A					**$172,190**	
Design Contingency				25%	$43,048	
SUBTOTAL B					**$215,238**	
General Conditions X% of B (If not included in Unit Costs)				0%	$0	
Contractor O&P X% of B (if not included in Unit Costs)				0%	$0	
Construction Security Plan (X% of B)				0%	$0	
SUBTOTAL C					**$215,238**	
Construction Quality Control Plan (3% of C) (BID ITEM X-4-5.1)				3%	$6,457	
SUBTOTAL D					**$221,695**	
Miscellaneous Construction Allowance (5% to 10% of C) (BID ITEM Z-1-7.1)				5%	$10,762	
Construction Quality Control Plan (3% of Misc. Construction Allow.)				3%	$323	
TOTAL CONSTRUCTION COST ESTIMATE					**$240,000**	
	ADDITIONAL PROGRAM COSTS					
Estimated Design Fee (8% to 12% of Construction Cost)				10%	$24,000	
Estimated CMI Fee (8% to 12% of Construction Cost)				10%	$24,000	
TOTAL CAPITAL PROGRAM COST ESTIMATE					**$288,000**	
Escalation Factor (if applicable)				0%	$0	
GRAND TOTAL					**$290,000**	
Level of Accuracy	☑ Quantity Take-Off ☐	General Square Foot		☐	Comparison with other installations/facilities	
List of Sole Source Items	1	3			5	
Included in this Contract	2	4			6	
List of Assumptions						

PROPOSED TUNNEL TO THE PROPOSED AIRFIELD LIGHTING VAULT
Engineer's Estimate - All costs
December 11, 2012

ESTIMATING LEVEL: ☐ Budget ☑ Concept ☐ 30% ☐ 60% ☐ ☐

ITEM	DESCRIPTION	UNIT	UNIT COST	QUANTITY	TOTAL	COMMENT
	CONSTRUCTION COST ESTIMATE					
X-1-4.1	SECURITY REQUIREMENTS DURING CONSTRUCTION	PER DAY	$1,500.00	365	$547,500	
X-5-4.1	MOBILIZATION/DEMOBILIZATION & CONSTRUCTION LAYOUT SURVEYING	LS	$470,960.76	1	$470,961	
X-6-5.1	TEMPORARY CONSTRUCTION ITEMS	LS	$494,508.80	1	$494,509	
	PAVEMENT DEMOLITION	SY	$20	6,009	$120,180	
	PAVEMENT REPLACEMENT	SY	$150	6,009	$901,350	
	PAVEMENT MARKING REMOVAL	SF	$4	982	$3,926	
	GLYCOL RELOCATION	LS	$75,000	1	$75,000	
	ELECTRICAL RELOCATION	LS	$75,000	1	$75,000	
	UNCLASSIFIED EXCAVATION	CY	$20	69,444	$1,388,889	
	PAVEMENT MARKING REPLACEMENT	SF	$10	982	$9,820	
	PBB REMOVAL	LS	$25,000	1	$25,000	
	COVERING OF ENTRANCE	SF	$20	8,200	$164,000	
	AFL REPLACEMENT (FREE EDGE)	LF	$150	525	$78,750	
	TUNNEL-LIGHTING	LF	$75	840	$63,000	
	TUNNEL-VENTILATION	LS	$150,000	1	$150,000	
	TUNNEL-DRAINAGE (SUMP PIT)	LS	$75,000	1	$75,000	
	SWM/E&S	LS	$100,000	1	$100,000	
	TUNNEL- PORTLAND CEMENT CONCRETE	CY	$650	9522	$6,189,300	
					$0	
Special Systems	BAS (Metasys)					
	FAS (Honeywell)					
	CASS					
	CCTV					
	BGE					
	Verizon					
	BHS (Baggage Handling Systems)					
	Other Systems (Specify) (Johnson Controls 262816-5.3)					
SUBTOTAL A					**$10,932,185**	
Design Contingency				25%	$2,733,046	
SUBTOTAL B					**$13,665,231**	
General Conditions X% of B (If not included in Unit Costs)				0%	$0	
Contractor O&P X% of B (if not included in Unit Costs)				0%	$0	
Construction Security Plan (X% of B)				0%	$0	
SUBTOTAL C					**$13,665,231**	
Construction Quality Control Plan (3% of C) (BID ITEM X-4-5.1)				3%	$409,957	
SUBTOTAL D					**$14,075,188**	
Miscellaneous Construction Allowance (5% to 10% of C) (BID ITEM Z-1-7.1)				5%	$683,262	
Construction Quality Control Plan (3% of Misc. Construction Allow.)				3%	$20,498	
TOTAL CONSTRUCTION COST ESTIMATE					**$14,780,000**	
	ADDITIONAL PROGRAM COSTS					
Estimated Design Fee (8% to 12% of Construction Cost)				10%	$1,478,000	
Estimated CMI Fee (8% to 12% of Construction Cost)				10%	$1,478,000	
TOTAL CAPITAL PROGRAM COST ESTIMATE					**$17,736,000**	
Escalation Factor (if applicable)				0%	$0	
GRAND TOTAL					**$17,740,000**	
Level of Accuracy	☑ Quantity Take-Off ☐	General Square Foot ☐			Comparison with other installations/facilities	
List of Sole Source Items	1	3			5	
Included in this Contract	2	4			6	
List of Assumptions						

Attachment 3:

Existing VOR Facility and Proposed Taxiways Analysis

Technical Memorandum

AECOM, February 2016

and

FAA Memorandum for

"Analysis of the BAL VORTAC in Baltimore, MD"

August 24, 2016

February 2016

Baltimore/Washington International Thurgood Marshall Airport

Existing VOR Facility and Proposed Taxiways Analysis

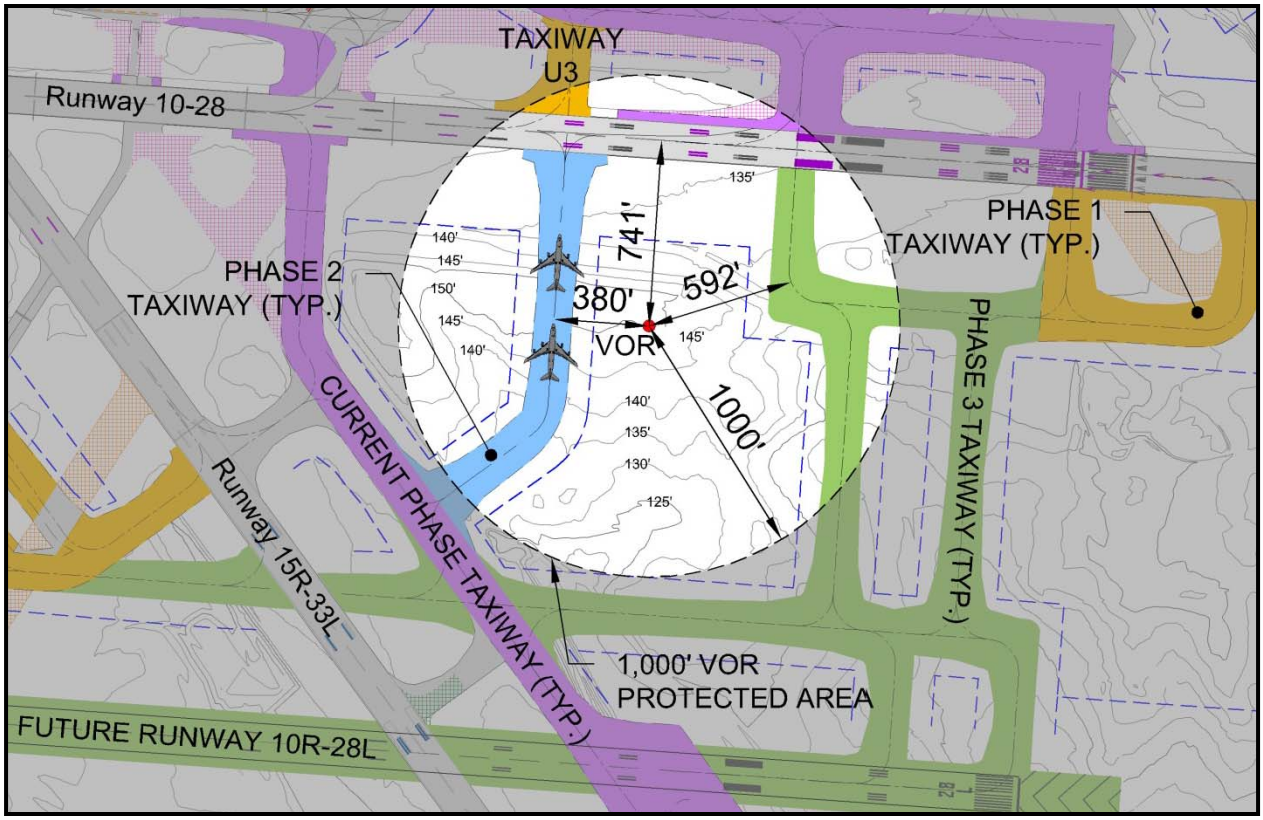
Technical Memorandum

The following technical memorandum summarizes an assessment of future paving projects at Baltimore/Washington International Thurgood Marshall Airport (BWI Marshall) near the existing Very High Frequency OmniRange (VOR) enroute navigation facility. The purpose of this document is to provide an early awareness of any associated constraints for planning purposes.

1. BACKGROUND

The Maryland Aviation Administration (MAA) has identified airfield development projects on its Future Airport Layout Plan (ALP) dated January 2015, which will add paved taxiway surfaces near the VOR. A note on the ALP states that a study is required for "...future pavement in the VOR critical area." **Figure 1** illustrates this area (a 1,000-foot radius circle), which includes portions of new taxiway exit U3, shown in orange (ALP Phase 1) and three new cross-field taxiways, shown in blue (ALP Phase 2) and green (ALP Phase 3). This memorandum evaluates the proposed effects the new taxiways may have on the existing VOR facility, specifically as it relates to the permanent pavement and terrain, construction phase effects, and aircraft and ground vehicle movements.

Figure 1: VOR Protected Area and Nearby Future Pavement Surfaces



Maryland Aviation Administration

AECOM

Spohnheimer Consulting Airspace Systems, LLC

2. ANALYSIS

2.1. Description of Terminology

The following is a description/clarification of terminology used in siting navigation aid-type facilities.

Critical Area – Two navigation facility types require the establishment of an internationally and formally defined "critical area (CA)". These are the localizer and glide slope subsystems of the instrument landing system (ILS). In the United States, ILS CAs are defined in the Federal Aviation Administration (FAA) ILS Siting Handbook. They are intended to protect the radiated signals from the effects of temporary or moving objects such as taxiing or stopped aircraft from which the signal effects cannot realistically be flight inspected. They require signage for pilots and surface vehicle drivers, and positive control by Air Traffic Control (ATC) personnel as defined by the FAA Air Traffic Control handbook when the ILS is being used for landings under specified weather conditions.

Protected Area – In contrast to CAs, VORs do not have internationally and formally defined areas that are protected by ATC personnel. In part, this is due to the non-precision nature of VOR uses by aircraft. However, there is a need to protect the VOR signals from permanent encroachment of structures. The FAA has defined this area in the VOR Siting Handbook. For the purposes of this document, this area will be referred to as a “protected area”.

2.2. Basis of VOR Protected Area

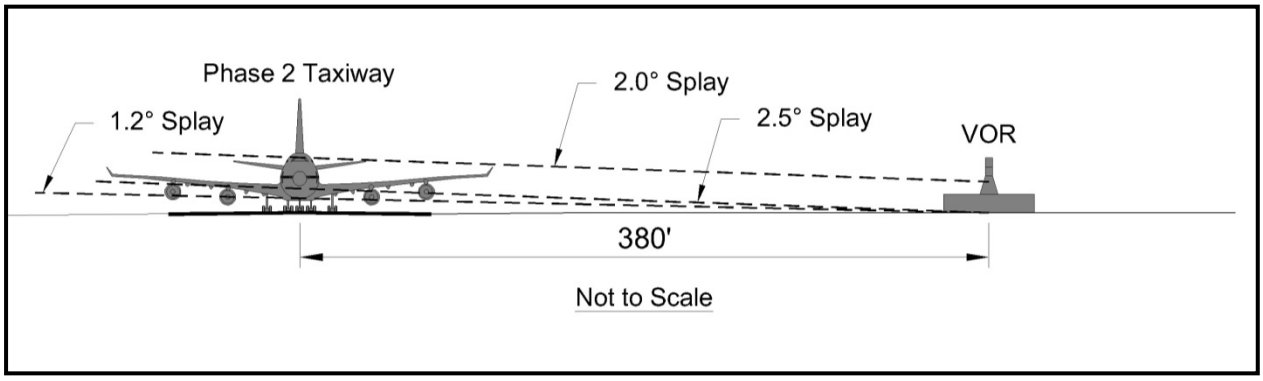
2.2.1. FAA Advisory Circular 150/5300-13A, Airport Design

The FAA’s Airport Design Advisory Circular outlines general standards and clearances for siting VOR facilities. The guidance includes lateral offsets relative to runways and taxiways, as well as vertical clearances for metal structures, wooden structures, and trees. Per the Advisory Circular, the standard runway and taxiway centerline separation for a Terminal VOR facility is 500 feet and 250 feet, respectively. Metal structures and wooden structures should not be higher than a 1.2 degree and 2.5 degree vertical angle, respectively, from the ground elevation of the VOR. Trees should not exceed a 2.0 degree vertical angle from the VOR antenna height.

It should be noted that BWI Marshall’s VOR is primarily used for high-altitude and low-altitude en route operations, and the brief siting standards included in the Advisory Circular do not capture all of the required criteria (which is significantly more technical in the FAA’s VOR Siting Order – discussed later in this section). Therefore, while the Advisory Circular is a good general reference, the FAA order should take precedence as the guiding document for VOR performance.

Figure 2 presents a cross section of the Phase 2 taxiway relative to the existing VOR with the vertical clearance angles overlaid. This example assumes the ground elevations for both the VOR and the taxiway will be relatively the same at 150' MSL. It is important to note that the vertical clearance angles apply to structures and not to movable objects. This figure merely demonstrates that a large widebody aircraft stopped adjacent to the VOR facility may have temporary effects on the VOR's performance. This scenario is not uncommon, and is described in greater detail later in this report.

Figure 2: Phase 2 Taxiway and VOR Cross Section



2.2.2. FAA Order 6820.10 VOR, VOR/DME, and VORTAC Siting Criteria

FAA Order 6820.10, Chapter 4, Site Selection and Acquisition is a process-oriented chapter containing site selection procedures, as well as site survey, analysis, and testing content. Paragraph 17c(3) defines the "zoning restrictions" appropriate for site testing and site leasing as follows:

> "At the time that the temporary agreement is secured, the landowner(s) should be made aware that the following zoning restrictions will be required if the site is actually selected. This will reduce the possibility of complications in this regard at the time of lease negotiations."

The paragraphs following the above introductory sentences address proposed restrictions for obstructions within 1,000-foot radius – i.e., trees and forests, wire fences, power and control lines, and structures. The complete text of this section is included as Appendix A and is the basis of the reference on the ALP (Figure 1) to "VOR critical area."

2.3. Pavement and Terrain Effects

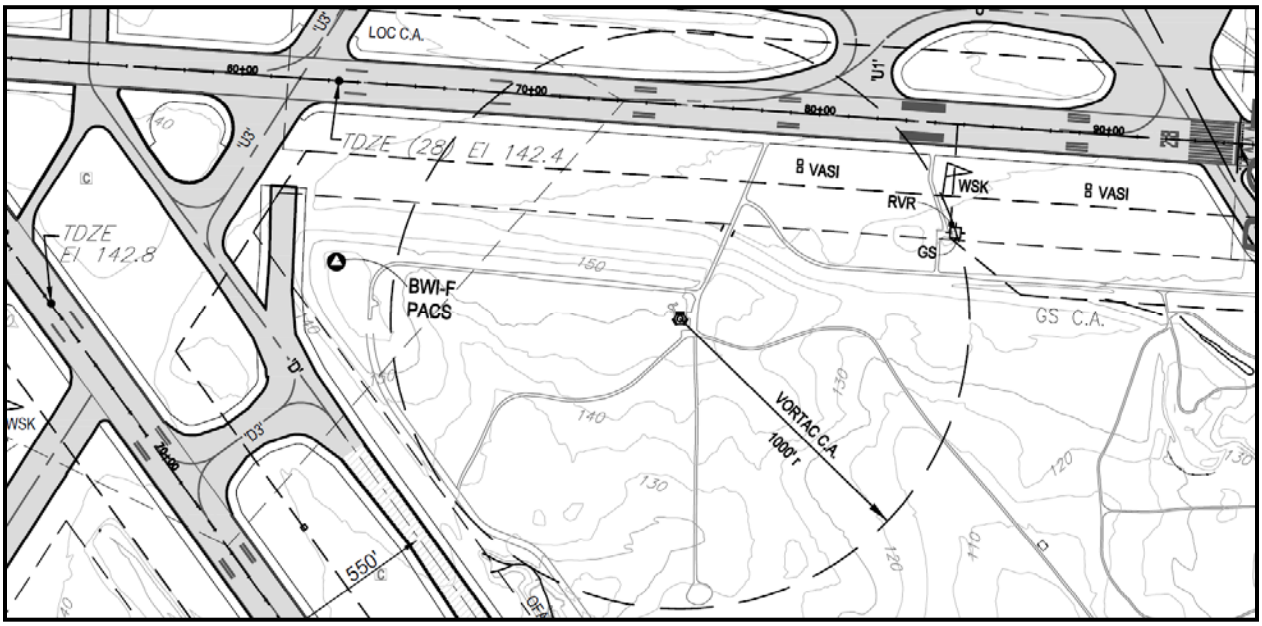
The text in Appendix A does not address pavement or the ground surface – rather it addresses solely above-ground objects. The physical presence of pavement within the 1,000-foot radius protected area is not constrained by the Siting Handbook's protected area constraints. This is evident from examination of Figure 1 – a portion of existing Runway 10-28 is within the 1,000-foot radius.

Other chapters in the Siting Handbook address signal-in-space effects from irregular terrain, and there is no restriction on these irregularities as long as the VOR performance meets

operational requirements, as defined by successful flight inspections supporting the proposed airways and instrument procedures relying on the VOR signals. **Figure 3** illustrates that existing ground elevations within the VOR protected area vary by approximately 20 to 30 feet. The VOR elevation is nominally 150 feet MSL, while the nearby runway segments are at approximately 125-foot to135-foot elevations.

It is likely that the proposed ALP Phase 2 taxiway west of the VOR will require a significant cut into the higher terrain on which the VOR sits, while the proposed ALP Phase 3 taxiways east of the VOR will traverse ground already substantially lower. Therefore, design considerations will be required in defining the cut/fill requirements and the attendant drainage contours to assure minimal effects on the VOR performance. A detailed siting assessment (as opposed to applying protected area constraints) of the proposed terrain contours and the resultant effects on signal generation will be necessary when the pavement details are in the early design phase.

Figure 3: Existing VOR Area Ground Contours (Existing ALP Sheet)



2.4. Construction Phase Effects

During construction activities, it is common to have numerous vehicles that are stopped for significant periods of time (e.g., more than 1-2 minutes) as well as temporary stockpiling of materials such as cut/fill dirt or gravel within the protected area of an operational VOR. These construction activities will have longer and potentially larger effects than those from normal use of taxiways and occasional maintenance vehicles that penetrate the protected area, for which the FAA has not defined restrictions (see Paragraph 2.5).

There is an unlimited number of specific conditions of potential concern, such as the size of stockpiles, number of stopped construction vehicles, relative elevation of stockpiles and vehicles with respect to the VOR antennas, expected or typical weather conditions during the construction time, and the types of operational uses that rely on the VOR signals. For example, some VORs might be used solely for departures or missed approaches, while others support airways and non-precision approaches, and the construction activities usually will have different

effects on each use. As a result, each case must be considered individually. The VOR supports low and high-altitude airways, instrument approaches to three runways at BWI, missed approaches for all six ILS approaches at BWI, and at least one instrument approach to an outlying airport. The following general guidelines are commonly applied during the construction phase:

a. If weather conditions and traffic density allow, and VOR services are non-critical, an extended shutdown of the VOR (removing all of its functions from operational use) will eliminate further analysis of the nature of the protected area incursions. This option may not be suitable for the VOR unless good weather conditions prevail for a significant period of time.

b. If protected area construction incursions (e.g., by stockpiles and/or stopped vehicles) can be limited to beyond 500 feet from the VOR, only non-precision approaches might be removed from service by a Flight Procedures Notice to Airmen (NOTAM), while missed approach and departure functions remain in service. The taxiway projects in ALP Phase 1 and Phase 3 are beyond 500 feet from the VOR; therefore, careful management of stockpiling and vehicle staging may make this option suitable during much of the construction.

c. If protected area incursions within 500 feet of the VOR are caused by stopped vehicles (e.g., construction supervisor's pickup truck) or by construction machinery modifying the terrain (e.g., grader), the VOR should be temporarily removed from service during these conditions. Only the central portion (approximately one third) of the ALP Phase 2 project west of the VOR is within 500 feet. An example result might be daily shutdowns during daylight construction periods and restoration to service at night (or vice versa) if no work is being performed and any stockpiling of materials has been limited to a prescribed size and height defined by cognizant VOR engineering personnel. It is advantageous to schedule this construction work on off-peak time periods to minimize VOR service interruptions.

2.5. Aircraft and Ground Vehicle Effects during Normal Operations

The FAA has not defined restrictions on the proximity to a VOR of temporarily stopped or moving aircraft and ground vehicles. There are many VOR installations within 1,000 feet of a taxiway or runway – some examples include LaGuardia Airport (LGA), Seattle-Tacoma International Airport (SEA), and Walla Walla Regional Airport (ALW). At each of those airports, the distance from VOR to a runway is approximately 500 feet. Even so, depending on the relative elevation of the temporarily stopped or moving object to the VOR, as well as the size of the object, there can be significant effects on the VOR signals. However, these are transient in nature, and pilots are used to seeing the aberrations during flight. In cases where large widebody aircraft may temporarily stop, e.g., while waiting to cross a runway, and they can completely block propagation of the VOR signals to in-flight aircraft for tens of seconds, local restrictions may be implemented on a case-by-case basis. An example of this is Taxiway U3 (ALP Phase 2) west of the VOR, in which portions of the pavement are within 500 feet. Large widebody aircraft stopped on this taxiway may block VOR signals to aircraft flying a non-precision VOR approach to Runway 10, depending on the proposed taxiway elevation. Mathematical modeling is helpful in many of these cases, although the current modeling software addresses only the effects of reflections from the object, rather than blockages of the signal path. In many cases, a short period of cautious operational experience (e.g., during good weather) is necessary to identify these performance issues that may warrant a local restriction.

3. CONCLUSIONS

In summary, we determined there are no significant VOR signal-in-space effects from the proposed ALP taxiways adjacent to the existing VOR. The proposed taxiway alignments and setback clearances are consistent with the FAA's general standard siting criteria as outlined in Advisory Circular 150/5300-13A and the preliminary considerations for VOR siting per FAA Order 6820.10. However, there is potential for some types of terrain modifications and construction activities that require care, both during the grading design and during any operation of the VOR while construction is underway. The primary considerations for the future taxiway design projects and operational assessments are listed below:

a. The 1,000-foot radius around the VOR on the BWI Marshall ALP defines a protected area in which objects (i.e., trees, wires, poles, and structures) are constrained in height and distance by recommended zoning restrictions found in FAA Order 6820.10.

b. There are no constraints on the physical presence of pavement within the 1,000-foot radius VOR protected area.

c. To protect future VOR performance, caution must be exercised during the design process for substantial changes in ground contours caused by the grading requirements of the proposed taxiway projects. Examples of changes that may be of concern include abrupt edges on a cut, deep/wide ditches, and permanent local mounding of material above the average grade.

d. Construction phase activities within the VOR protected area should be analyzed by cognizant VOR engineers to determine the level of expected effect compared to the criticality of VOR operational services. The resulting plan for VOR service during the construction can range from allowing some activities beyond 500 feet from the VOR, to denying non-precision approaches under some conditions, to a complete shutdown of the VOR for an extended period of time.

e. In infrequent cases, a local restriction on temporarily stopped or queuing aircraft near the VOR may be appropriate, depending on future VOR-to-pavement elevation differences and aircraft size. This will most likely be applicable to the section of proposed Taxiway U3 constructed in ALP Phase 2, where northbound aircraft are required to hold short at Runway 10-28 and wait for ground control to provide crossing clearance. The aircraft in queue may impact the VOR performance for aircraft using the Runway 10 VOR non-precision approach.

Appendix A

Excerpt from FAA Order 6820.10, VOR, VOR/DME, and VORTAC Siting Criteria, dated April 17, 1986

Editorial Comment: The VOR Siting handbook comprises approximately 325 pages. The vast majority of that content is highly technical material provided to assist the siting engineer in analyzing and selecting prospective VOR sites. Chapter 4 comprises only 7 pages regarding Site Selection and Acquisition. In it we find, in paragraph 17c(3), the [suggested] requirements for a prescriptive easement that will be necessary to protect the area immediately around the VOR [typically out to 1,000-foot to 1,200-foot radius], should a prospective site be subsequently constructed.

Excerpt (Paragraph 17, direct quote except for italics text in sub paragraph 3 below):

Paragraph 17, Site Survey, Analysis, and Testing

Paragraph 17c, Preliminary Considerations Before Testing

(1) At the time of the office survey, it is of prime importance to establish the identity of the owners of the land for all candidate sites and the addresses through which they may be contacted. The legal description of land can usually be obtained locally from city; township, or county clerk's office. If possible, a copy of the deed(s) or other appropriate documentation showing land ownership should be attached to the Site Survey Report. In addition, there may be land adjacent to the proposed sites which would be affected by the site zoning restrictions. These restrictions, discussed in detail in paragraph **(3)** below, may be determined during the office survey, so that the ownership information of this type land, if required, may also be included in the Site Survey Report.

(2) Once the site surveys are completed and it has been decided to field test a specific candidate site, a temporary agreement must be entered into with the property owner(s). This agreement (Permit to Test, Testing License, etc.) will secure entry and access to the property for setting up a portable VOR and testing the site. These agreements, and the initial permission to enter the land for the site surveys, are governed by FAA Order **4660.1,** Real Property Accountability Handbook.

(3) At the time that the temporary agreement is secured, the landowner(s) should be made aware that *the following zoning restrictions will be required if the site is actually selected*. This will reduce the possibility of complications in this regard at the time of lease negotiations.

The restrictions are:

(a) General. All obstructions within **1,000** feet of the antenna are to be removed except as noted below. Normal crop raising and grazing operations may be permitted in this area, except at mountain top facilities where antennas are four feet high. In these instances, crop raising and grazing must be restricted to areas below and off the counterpoise. No grazing should be permitted in the vicinity of the monitor detectors.

(b) Trees and Forests. Trees close to the VOR antenna can cause severe scalloping. Single trees of moderate height (up to **30** feet) may be tolerated beyond 500 feet, but no closer. No groups of trees should be within a 1,000-foot radius or subtend a vertical angle of **more** than 2 degrees. At mountain top sites, no trees within **1,000** feet should be visible from the antenna array.

(c) Wire Fences. Ordinary farm-type wire fences about four feet high are not permitted within 200 feet of the antenna; fences of the chain type **(six** feet or more in height) are not permitted within 500 feet of the antenna; beyond these distances no wire fence should extend more than **0.5** degree above the horizontal, measured from the antenna. These requirements may be relaxed for fences essentially radial to the antenna. Since there is a large number of possible combinations of fence height and orientation with terrain configuration of various types, each of which may produce a different effect, the foregoing must serve as a general guide only. At many sites, a special study by experienced engineering personnel will be required to permit a judgement as to what fences can be tolerated. At mountain top sites, wire fences may be permitted within 200 feet of the antenna, provided they do not extend above the line of sight from the top of the antenna to the edge of the level area (that is, they are within the shadow area of the ground counterpoise).

(d) Power and Control Lines. Power and control line extensions should be installed underground for a minimum distance of **600** feet from the antenna. Overhead power and control lines may be installed beyond **600** feet but should be essentially radial to the antenna for a minimum distance of 1,200 feet. No overhead conductors (including possible future construction), except for extensions serving the site, should be permitted within **1,200** feet **of** the antenna. If a nonradial conductor is so oriented that it does not dome [sic, come] within 1,200 feet of the antenna, but the perpendicular distance to the antenna from its imaginary extension is less than 1,200 feet, then the vertical angle subtended by the uppermost conductor and/or the top of the pole (measured from ground elevation sit the antenna site) should not exceed 1 degree; also no conductor should extend above the horizontal plane of the antenna.

Other than the foregoing, there should be no Sines [sic, wires] or supporting structures so located that they subtend a vertical angle (measured from ground elevation at the site) of greater than **1.5** degrees. In addition, no conductor should extend more than 0.5 degree above the horizontal plane containing the antennas, unless they are essentially radial (within **±10** degrees) to the antenna array. At mountain top sites, the conductors will be permitted within 1,200 feet of the antenna, provided they do not extend above the conical surface formed by the top of the antenna and the edge of the leveled area.

(e) Structures. No structures should be permitted within **1,000** feet of the antenna, except for buildings such as the transmitter building at a mountain top site located on a slope below the ground level of the antenna so that they are not visible from the antenna. All structures that are partly or entirely metallic shall subtend vertical angles of **1.2** degrees or less, measured from ground elevation at the antenna site. Wooden structures with negligible metallic content and little prospect of future metallic additions (such as roofs and wiring) may be tolerated if subtending vertical angles of less than **2.5** degrees. However, at airports, where a single hangar or line of hangars, administrative buildings, etc., may have considerable length, it is necessary to look upon such structures as producing interference in the same manner (only more severe) as power and telephone lines, and the criteria for power, control, and telephone lines will apply.

(4) Temporary permits to utilize access roads of adjacent property owners shall also be obtained prior to site testing. Easements are very often all that are required to install a permanent access road to a facility after it is established, and the actual purchase of land for this purpose is not necessary. Leases or other agreements, as required, should be entered into with appropriate governing agencies or property owner(s) for the use of existing roads. Appropriate procedures for entering into such agreements are given in FAA Order 4660.1, Real Property Accountability Handbook.

Federal Aviation Administration

Memorandum

Date: August 24, 2016

To: Angela Havens

From: Shawn Turek

Subject: Analysis of the BAL VORTAC in Baltimore, MD

1.0 INTRODUCTION

1.1 Study Description

This report is to assess new restrictions on the BAL VOR following the relocation of the RWY 28 Glide Slope (GS) antenna mast. However in order to understand the cause of the latest restriction, it's best to have a brief knowledge of what's taken place over the last few years. Below is a timeline showing a short history of the BAL VOR.

Feb 2014: RWY 28 GS tower was increased from 30' to 45' AGL (converted from a Null Reference to a Capture Effect Glide Slope). Flight Inspection issued restriction 'Unusable 164°-174° and 282°-292°'. Radials 282°-292° went OT on high roughness/scalloping.

May 2014: Operations Engineering Support Group (OESG) completed a modeling analysis of this VOR identifying the increase in height of the RWY 28 GS tower from 30' to 45' AGL as the source of the new restrictions.

July 2015: Flight Inspection further defined Radials 164°-174° Unusable beyond 8NM and below 3000'. Also NOTAM affecting Radials 282°-292° was cancelled.

Feb 2016: Following the relocation of the GS closer to the VOR, Flight Inspection removed the restriction 'Unusable 164°-174° Beyond 8NM Below 2900ft'.

March 2016: Flight Inspection continued to fly the VOR and found a new restriction (just reinstated an old one from 2014) 'Unusable 282°-292° All Altitudes and Distances'. Radial 287 was OT due to high roughness/scalloping.

April 2016: Flight Inspection probed Radial 287 and was found OT due to high 30Hz Modulation

2.0 MODEL INPUT DATA

2.1 Facility Data

The facility being evaluated is a Conventional VORTAC with a VOR radio frequency (RF) of 115.100 MHz. It was modeled with a 52-foot diameter counterpoise located 12 feet above ground level (AGL). The site elevation (SE) used was 149' (AMSL). This VORTAC is a low-altitude "L" facility with an extended service volume. The NAVAID data sheet indicates a magnetic variation (MagVar) of 11 West calculated in 2000. This MagVar has been taken into account in the model. The BAL VORTAC has 8 published restrictions. These are listed here:

VOR Unusable:

- 04/09/2004 133°-155° Beyond 20NM, below 10,000'
- 02/22/2013 197°-217° Beyond 17NM
- 03/21/20216 282°-292° All altitudes and distances

TACAN/DME Unusable:

- 07/22/1992 300°-349° Both beyond 35NM
- 04/09/2004 133°-155° Both beyond 20NM below 10,000'
- 04/09/2004 133°-155° DME Beyond 36NM
- 02/22/2013 180°-190° Azimuth beyond 17NM
- 03/21/2016 029°-042° Beyond 30NM

2.2 Terrain

The surrounding terrain was modeled as a flat and level ground plane although the elevation does vary around the site.

2.3 Structure

Below is a picture of the VOR and surrounding terrain as seen from Google Earth with a 1000' radius circle (Figure 1). Please note that this image was last updated in 2014 so it does not accurately show the relocated GS antenna. The structures or objects which have been considered for this analysis include the GS antenna mast, trees and a parked maintenance aircraft.

Figure 1. Google Earth overview image

3.0 MODEL ANALYSIS

3.1 Model Considerations

This analysis was performed using the Ohio University NAVAIDS Performance Prediction Model (OUNPPM) version 070914. This program is accepted and used by the FAA.

3.2 Analysis Performed

A modeling analysis was performed to verify what obstructions may be causing the current restrictions.

3.3 Analysis Results

The composite results of the modeling analysis verify that there is roughness/scalloping of the radiated signal. Figure 2 below is a model of an Alignment Orbit at 8,000' AGL and 12 NM and Figure 3 below is a Radial Flight 287 starting at 11NM and 2000'AGL to 0NM and 1200'AGL.

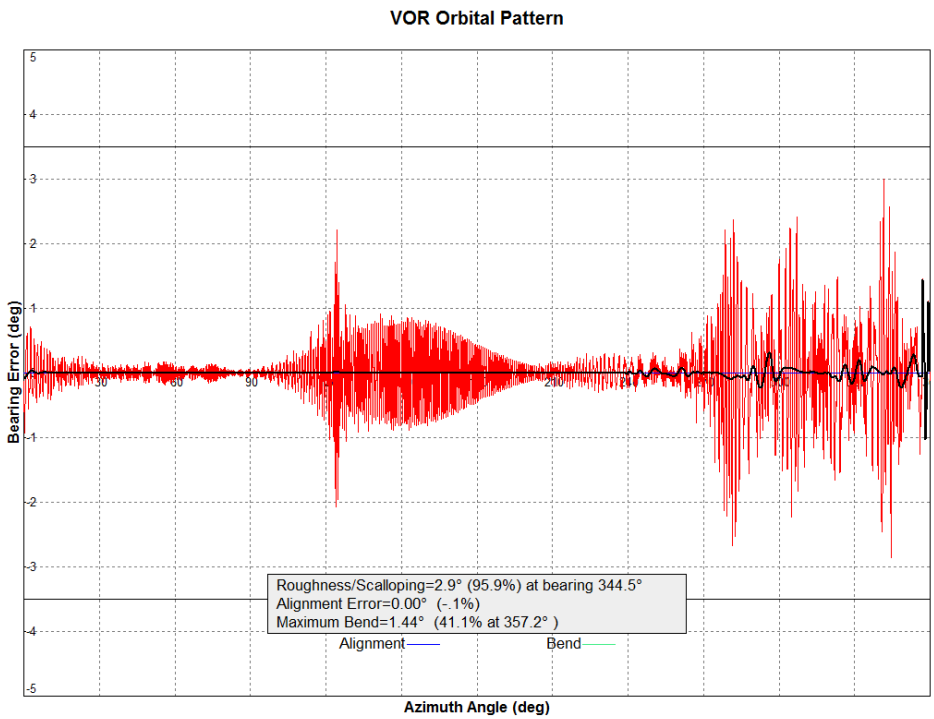


Figure 2: VOR Orbit at 8000’ AGL and 12NM

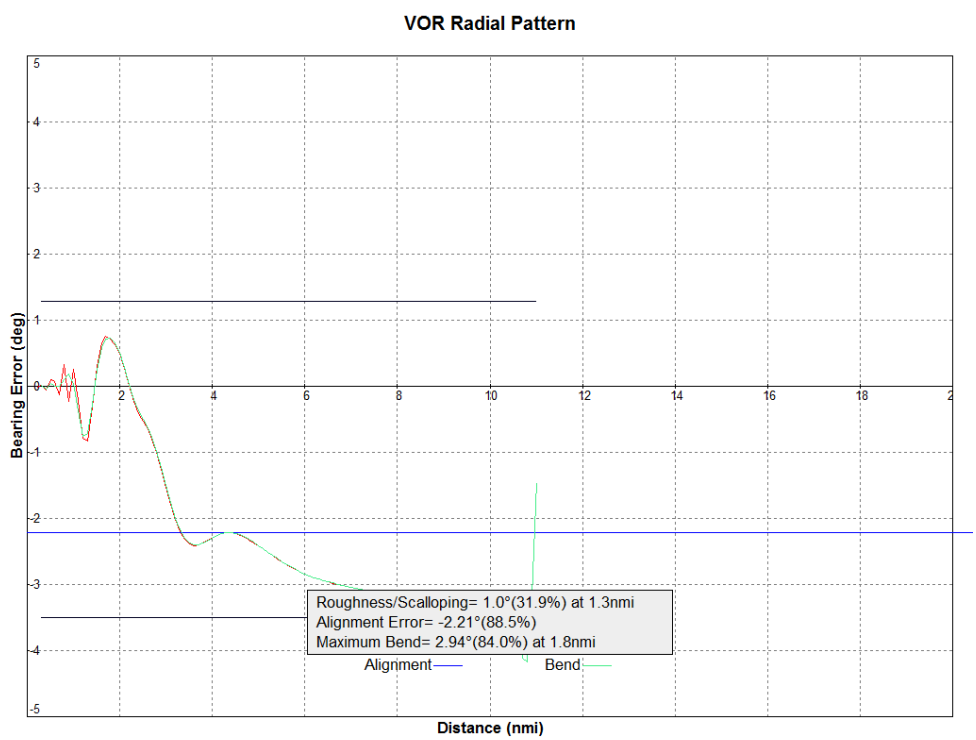


Figure 3: VOR Radial Flight 287 starting at 11NM and 2000’AGL to 0NM and 1200’AGL

3.4 Individual Analysis

In order to narrow down which obstructions are contributing to the RF interference of the VORTAC, an analysis of each obstruction is modeled individually to see how they impact the VOR.
First is in reference to the RWY 28 GS. Figure 4 and 5 below show a Flight Inspection Orbit and Radial flight while only taking into account the GS antenna mast.

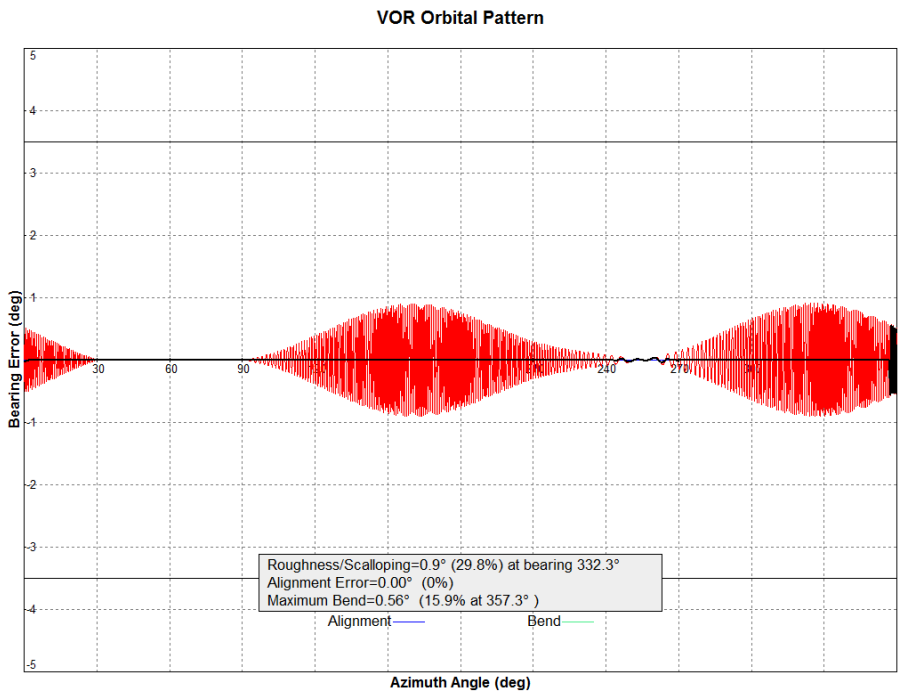


Figure 4: BAL VOR Orbit at 8,000’ AGL and 12 NM

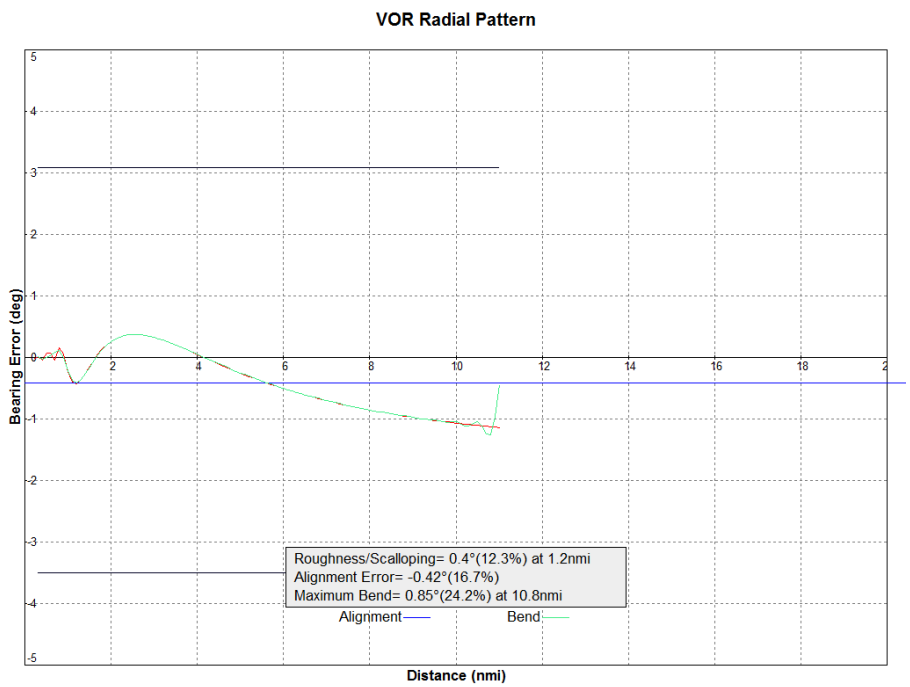


Figure 5: BAL VOR Radial 287 Starting at 11NM and 2000’AGL to 0NM and 1200’AGL

Next we'll take a look at the surrounding trees towards the South-East. These were modeled at 50'AGL and are shown in Figure 6 and 7 below.

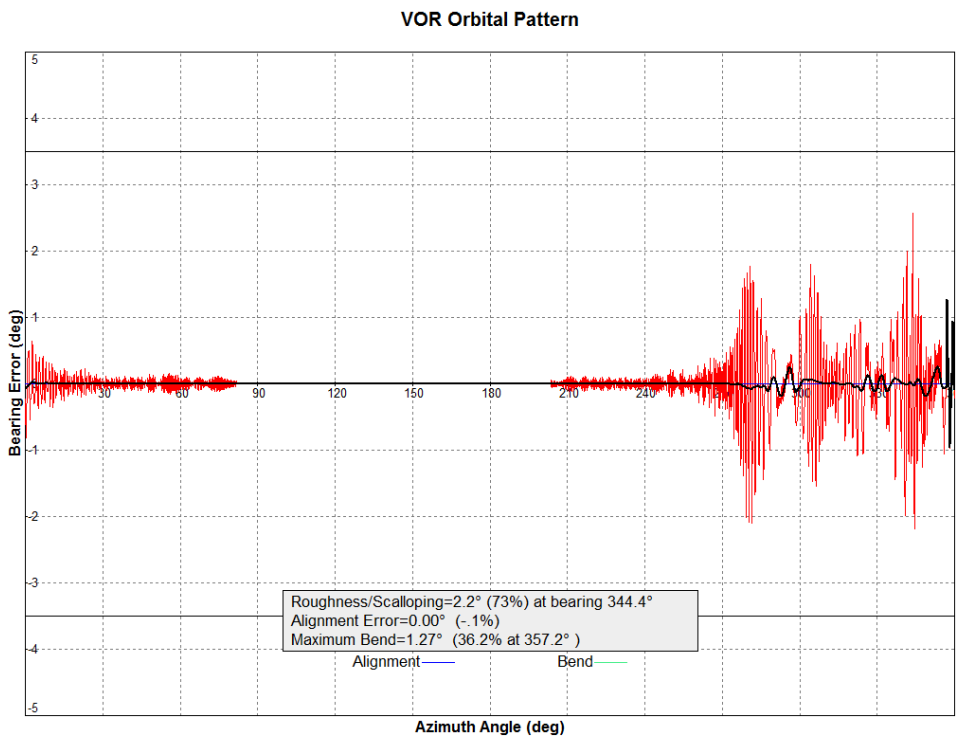


Figure 6: BAL VOR Orbit at 8,000' AGL and 12 NM

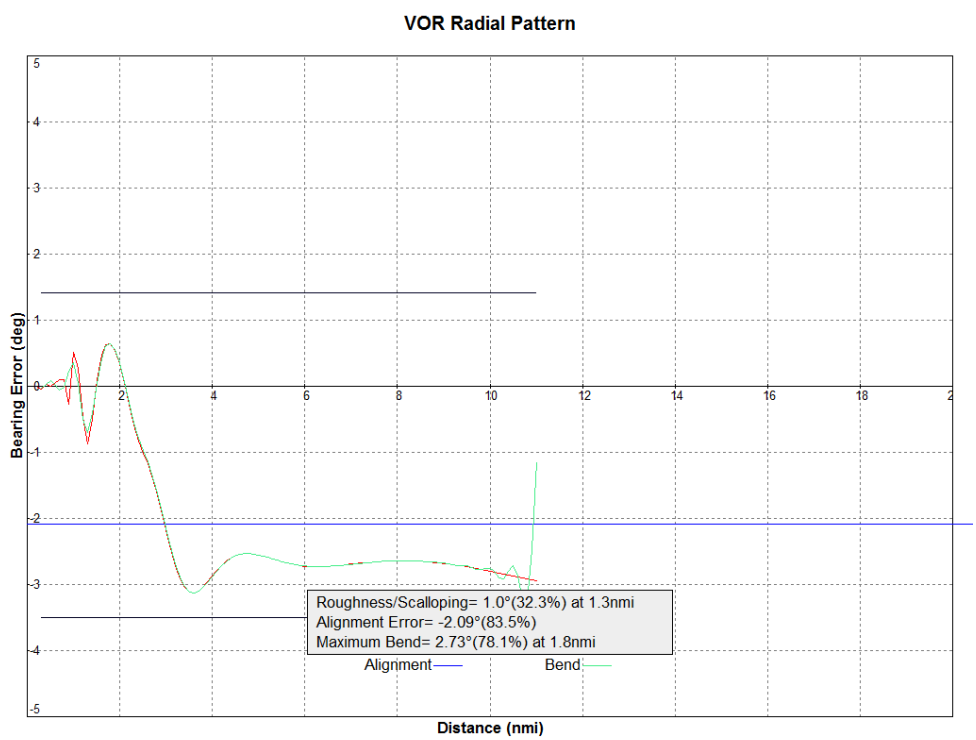


Figure 7: BAL VOR Radial 287 Starting at 11NM and 2000'AGL to 0NM and 1200'AGL

Last we'll model the maintenance aircraft that has been parked towards the South-West of the VOR since 2009 (according to Google Earth history).

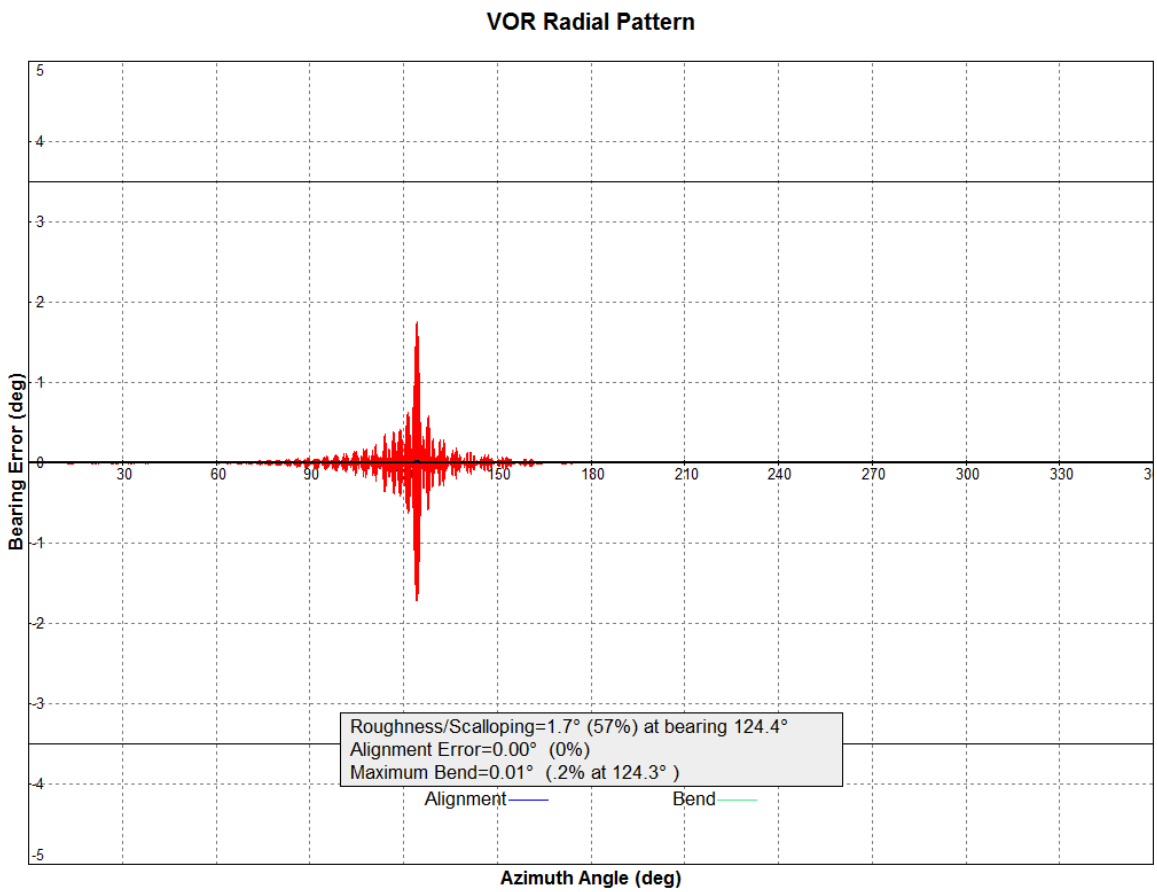


Figure 8: BAL VOR Orbit at 8,000' AGL and 12 NM

5.0 CONCLUSION

The main sources of obstructions causing out-of-tolerance conditions on the BAL VOR are from the surrounding trees and the RWY 28 CEGS antenna mast which is located about 750' away, well in violation of our siting criteria. Although the maintenance aircraft does appear to cause some interference, flight inspections flown prior to the plane being there in 2009 and right after show no new restrictions.

Since this new restriction from 282-292 existed for about 1 year between Feb 2014 – July 2015 prior to the GS being relocated, it's a good assumption that the GS is not causing this recent restriction. Looking at the above modeling results, it appears that the trees may be the source of the reflection.

6.0 RECOMMENDATIONS

1) Cutting / trimming the trees: Although the trees have been here for many years and are outside of the 1000' critical area, they have increased in height over the years and penetrate the 2 degree vertical angle allowed in our siting criteria by almost a full degree. If cutting the trees out to 1200' isn't possible, trimming the trees located to the South-East as identified on Figure 1 above to a less than 1.5 degree vertical angle as measured from the base of the VOR would suffice. Please note that if trimming the trees is the option chosen, tree trimming maintenance would need to be continued on a yearly basis.

2) Decommissioning: When looking at projects of this magnitude, decommissioning the facility should always be considered.

3) Dopplerization: Dopplerizing this facility will mitigate the majority of the scatter caused by the surrounding obstructions. If this option is chosen, it would not be necessary to elevate the counterpoise.

The most cost effective solution to restore the restrictions of the BAL VOR is to proceed with Recommendation 1 as listed above. If restrictions are still in place once these actions are completed, another site visit shall be coordinated to determine the next step.

Attachment 4:

FAA Correspondence for Airspace Review of the Proposed Airline Maintenance Facility

November 22, 2016 and October 24, 2017

U. S. Department of Transportation

Federal Aviation Administration

WASHINGTON AIRPORTS DISTRICT OFFICE
23723 Air Freight Lane, Suite 210
Dulles, Virginia 20166
Telephone: 703-661-1359
Fax: 703-661-1370

RECEIVED

DEC 1 - 2016

MD AVIATION ADMINISTRATION
PLANNING & ENVIRONMENTAL SERVICES

November 22, 2016

Mr. Shawn Ames
Division of Airport Facilities Planning
Maryland Aviation Administration
P.O. Box 8766
BWI Airport, Maryland 21240-0766

Reference: Baltimore-Washington International Airport (BWI)
Proposed Maintenance Hangar
2016-AEA-1514-NRA

Dear Mr. Ames:

Reference is made of the notification to construct a Maintenance hangar at BWI. The FAA, ATO Technical Operations has ***objected*** to this proposal. We have attached their specific objections for your review.

In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns and airspace of airports, the effects it would have on the safety of persons and property on the ground, and the effects that existing or proposed manmade objects (on file with the FAA), and known natural objects within the affected area would have on the airport proposal.

Should there be a need for any further correspondence on this matter, please refer to Case Number 2016-AEA-1514-NRA.

Sincerely,

Thomas A Priscilla Jr.

Thomas A. Priscilla, Jr.
Washington Airports District Office

OE/AAA

Federal Aviation Administration

Overview

Study (ASN): 2016-AEA-1514-NRA
Prior Study:
Project: 11081
Status: EVL-Exam

Received Date: 08/09/2016
Entered Date: 08/09/2016
Completed Date:
Rush: ☐

Sponsor Info

Sponsor: BWI Thurgood Marshall
Attention Of: Shawn P. Ames
Address: PO Box 8766
Address:
City: BWI Airport
State: MD **Postal Code:** 21240
Country: US
Telephone: (410) 859-7089 **Ext:**
Fax: (410) 859-7082
Email: sames@bwiairport.com

Representative Info

Representative: BWI Thurgood Marshall
Attention Of: Shawn P. Ames
Address: PO Box 8766
Address:
City: BWI Airport
State: MD **Postal Code:** 21240
Country: US
Telephone: (410) 859-7089 **Ext:**
Fax: (410) 859-7082
Email: sames@bwiairport.com

Construction Info

Notice Of: ALTER
Duration: PERM (Months: Days:)
Work Schedule:

ADO Contact Info

ADO Contact: Tom Priscilla
Telephone: (703) 661-1359
ADO: WASHADO

SBG Contact:
Telephone:
Det-to-Prop:

Structure Details

Latitude 39-10-50.75N
Longitude: 76-41-05.39W
Datum: NAD83 **Original Datum** ☑
Accuracy: 1A **Other:**

City: BALTIMORE
State: MD
Loc ID: BWI
Nearest Airport: BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL

Height and Elevation

	Proposed
Site Elevation (SE):	140
Structure Height (AGL):	95
Total height (AMSL):	235

Remarks

maintenance hangar

Submitted To

AT-OEG: N	ADO: N	TO: O
FP: F	FS: N	FM: S
USAF: N	USA: S	USN: N
AT-OSG: N	ATCT: N	SBG:
DHS: S		
AP Sponsor:	AP(139): S	CASFO:
FSDO:	SMO:	Other:

Frequencies

Low Freq	High Freq	Unit	ERP	Unit

Division(s) Not Responded

Federal Aviation Administration

« OE/AAA

Case Data | Part 77 | Analysis | Generate Letters | Documents | Corresp Archive | Div Responses

ASN: 2016-AEA-1514-NRA

Description: maintenance hangar

City, State: BALTIMORE, MD
Latitude: 39-10-50.75N NAD 83
Longitude: 76-41-05.39W

	Proposed
SE:	140 Ft
AGL:	95 Ft
AMSL:	235 Ft

Click on the division for response details.

SBG	FP	FS	USAF	AP	Tech Ops	USN	USA	FM	AT-OEG	DHS	AP(139)	AT-OSG	ATCT
Not Sent	No IFR Effect	No Objection	No Objection	No Objection	Objection	No Objection	Auto Screen	Auto Screen	No Objection	Auto Screen	Auto Screen	No Objection	No Objection
Request	Unlock	Unlock	Unlock	Unlock	Unlock	Unlock	Unlock	Unlock	Unlock	Unlock	Unlock	Unlock	Unlock

AP Sponsor	FSDO	SMO	CASFO	Other
Not Sent	Not Sent	Not Sent	Not Sent	Not Sent
Request	Request	Request	Request	Request

Submit Form

Division	Requested By	Requested Date	Responded By	Responded Date	Response Type	Response	Duration (Days)
AT - ATCT/Facilities	Curby Fowler	10/04/2016	Scott Proudfoot (410) 859-7255	10/05/2016	No Objection		0
AT-OSG	SYSTEM OEAAA	08/09/2016	Curby Fowler (404) 305-5595	10/06/2016	No Objection		41
Air Force	SYSTEM OEAAA	08/09/2016	Carl Leach (253) 347-6746	08/17/2016	No Objection		5
Air Traffic Obstruction Evaluation Group	SYSTEM OEAAA	08/09/2016	Robert Alexander (718) 553-4546	08/10/2016	No Objection		0
Airports	SYSTEM OEAAA	08/09/2016	Guillermo Felix (718) 553-3345	10/27/2016	No Objection		54
Airports Part 139 Inspectors	SYSTEM OEAAA	08/09/2016	SYSTEM OEAAA (202) 580-7500	08/09/2016	Auto Screen	Autoscreened for AP(139) - Not ALP or CSPP Proposal	0
Army	SYSTEM OEAAA	08/09/2016	SYSTEM OEAAA (202) 580-7500	08/09/2016	Auto Screen	No Conflict with USA Conflix Program	0

Division	Requested By	Requested Date	Responded By	Responded Date	Response Type	Response	Duration (Days)
Department of Homeland Security	SYSTEM OEAAA	08/09/2016	SYSTEM OEAAA (202) 580-7500	08/09/2016	Auto Screen	No conflict with DHS radar or airport obstruction screening	0
Flight Procedures	SYSTEM OEAAA	08/09/2016	Gerard Lebar (404) 305-5953	09/15/2016	No IFR Effect		25
Flight Standards	SYSTEM OEAAA	08/09/2016	William Gianetta (781) 238-7220	10/05/2016	No Objection		39
Frequency Management	SYSTEM OEAAA	08/09/2016	SYSTEM OEAAA (202) 580-7500	08/09/2016	Auto Screen	Autoscreened for FM- No frequencies	0
Navy	SYSTEM OEAAA	08/09/2016	Duane Daugherty (404) 305-6905	08/10/2016	No Objection		0
Tech Ops	SYSTEM OEAAA	08/09/2016	Steven Loverde (718) 553-3469	11/17/2016	Objection	Please note Technical Operations comments listed in file: BWI 2016-1514-1524-NRA.pdf uploaded into the Documents Section of this case.	68

Case Popups: Saved Map | Part 77 Summary | Case Data Quick View | Div Resp | Design Surfaces Report | Nearest Airport | Circle Search

Record 53 of 54

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2016-AEA-1514 through 1524-NRA

Project Description: Maintenance Hangar. Baltimore/Washington International Airport, Baltimore, MD (BWI).

NAVAIDs and Radar Comments – Objection

1. NAVAIDs
   The proposed 95' AGL hangar has a vertical elevation angle of 0.72° as measured from the BAL VORTAC. Modeling indicates the introduction of out of tolerance conditions in two narrow wedges; 078° to 084° and 264° to 268°. Of the published procedure off the BAL VORTAC (40), modeling indicates that the 'CROOZ' fix on radial 269° that is used by the LDA Y RWY 19 Cat I approach into Ronald Reagan Washington National will be lost. The CROOZ fix is 3000' AMSL and 29.4 NM from the BAL VORTAC. The error will be introduced approximately 13 NM from the BAL VORTAC.

   MITIGATION:
   Alternate No. 1: There appears to be an ILS DME available on this approach. It may be possible to rework this approach without the need for maintaining this fix. This is a 'procedures' call.
   Alternate No. 2: Reducing the height of the hangar from 95' AGL to 75' AGL will eliminate this issue.

2. Radar
   This proposal defines a large aircraft hangar that is within a 1500 foot radial area of the Baltimore radar antenna with the closest corner located at approximately 350 feet distant. The 1500 foot radius area is typically referenced as a "clear zone", wherein, structure size and positioning is critical to FAA search and radar beacon performance. Given the two large vertical surface areas of the proposed hangar that will be within direct line-of-sight of the radar beacon antenna, transmissions from the FAA radar/beacon antenna will be reflected from the hangar and outward into the airspace. Aircraft transponders can be interrogated by these unwanted reflections and a false reply may result in the display of a false aircraft (target) to air traffic control. These unwanted/false aircraft transponder replies reduce radar performance and are objectionable to air traffic control. The greater Washington/Baltimore area realizes very dense air traffic where false aircraft targets are a major concern to air traffic control.

MITIGATION: If the FAA were to permit construction of this proposal within a radar clear zone area, construction techniques can be implemented that will eliminate and/or reduce reflections as previously described:

1. Reorient the reflected transmissions downward by tilting the vertical surfaces outward from the top of the hangar to achieve a ten-degree (or greater) angle at the base.
2. Construct vertical corner reflectors along the length of the reflecting surface. This has the effect of breaking a large surface area into many smaller surface areas, wherein, the intensity of the reflected energy is reduced.
3. Utilize a radar absorbent material to cover of shield the exterior vertical surface area. The downside to this is initial expense and periodic upkeep.

U. S. Department of Transportation

Federal Aviation Administration

WASHINGTON AIRPORTS DISTRICT OFFICE
23723 Air Freight Lane, Suite 210
Dulles, Virginia 20166
Telephone: 703-661-1359
Fax: 703-661-1370

October 24, 2017

Mr. Shawn Ames
Division of Airport Facilities Planning
Maryland Aviation Administration
P.O. Box 8766
BWI Airport, Maryland 21240-0766

Reference: Baltimore-Washington International Airport (BWI)
Proposed Maintenance Hangar
2017-AEA-2207-NRA

Dear Mr. Ames:

Reference is made of the notification to construct an aircraft maintenance hangar and associated facilities at Baltimore-Washington Marshall International Airport. The FAA has issued a conditional no objection to this proposal.

(1) See attached comments from ATO - Tech Opns.
(2) Mark and light facilities in accordance with FAA Advisory Circular 70/7460-1L.

In making this determination, the FAA has considered matters such as the effects the proposal would have on existing or planned traffic patterns and airspace of airports, the effects it would have on the safety of persons and property on the ground, and the effects that existing or proposed manmade objects (on file with the FAA), and known natural objects within the affected area would have on the airport proposal.

Should there be a need for any further correspondence on this matter, please refer to Case Number 2017-AEA-2207-NRA.

Sincerely,

Original Signed By
Thomas A. Priscilla

Thomas A. Priscilla, Jr.
Washington Airports District Office

5200 SAFETY
BWI

"FAA Internal Use Only"

"Requests from the public for access to or copies of information contained in obstruction evaluation study files are subject to request in accordance with the provisions of the Freedom of Information Act (5 U.S.C. 552), as implemented by Part 7 of the Department of Transportation Regulations and Order 1270.1, Freedom of Information Act Program." (reference 7400.2).

2017-AEA-2198 through 2207-NRA

Project Description – Construction of Aircraft Hangar. Baltimore/Washington International Airport. Baltimore, Maryland (BWI).

Objection

This obstruction submittal defines a proposed aircraft hangar that is within a 1000-foot radial area of the Baltimore radar antenna with the closest corner located at approximately 550 feet distant. The hangar is within an area typically referenced as a "clear zone", wherein, structure size and positioning is critical to FAA search and radar beacon performance.

This is the second evaluation for a hangar in this area and it has a reduction in height and footprint. FAA concerns remain unchanged with respect to the vertical surface area on the east side of the hangar. A large surface area, such as this, has the potential to reflect interrogations from the radar beacon antenna that can be of sufficient signal strength to provide unwanted interrogation of aircraft (transponders) on arrival or departure using runway 15. Unwanted or false interrogation caused by reflected energy will create a false target on Air Traffic Control displays. These unwanted/false aircraft transponder replies reduce radar performance and are objectionable to air traffic control.

Mitigation:

The adverse impacts related to construction of this proposal within a radar clear zone area can be mitigated through the use of construction techniques that will eliminate and/or reduce reflections as previously described:

1. Reorient the reflected transmissions downward by tilting the vertical surfaces outward from the top of the hangar to achieve a ten-degree (or greater) angle at the base.
2. Construct vertical corner reflectors along the length of the reflecting surface. This has the effect of breaking a large surface area into smaller surface areas, wherein, the intensity of the reflected energy is reduced.
3. Utilize a radar absorbent material to cover or shield the east war vertical surface area. The downside to this is initial expense and periodic upkeep.

"FAA Internal Use Only"

"Requests from the public for access to or copies of information contained in obstruction evaluation study files are subject to request in accordance with the provisions of the Freedom of Information Act (5 U.S.C. 552), as implemented by Part 7 of the Department of Transportation Regulations and Order 1270.1, Freedom of Information Act Program." (reference 7400.2).

4. Other techniques may be designed and implemented during hangar construction. The object is to reduce or "break-up" the large surface area that is the east side of the hangar.

The greater Washington/Baltimore area experiences very dense air traffic where false aircraft targets are a major concern to air traffic control.

Attachment 5:

2017 Re-Evaluation of the 1998 EA for the Expansion of the Midfield Cargo Facility Ramp at BWI Marshall Airport

2017 Re-Evaluation

FAA Approval August 30, 2017

Subject: BWI Midfield Cargo Facility Ramp Re-Evaluation
Attachments: BWI Mid-Field Cargo Written Re-eval_Response Letter.pdf

-------- Original message --------
From: Mindy.Lee@faa.gov
Date: 8/30/17 3:24 PM (GMT-05:00)
To: Robin Bowie <rbowie@bwiairport.com>
Subject: BWI Midfield Cargo Facility Ramp Re-Evaluation

Robin,

The Federal Aviation Administration (FAA) issued a FONSI based on the *1998 Environmental Assessment for Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport* on June 5, 1998. The decisions and findings made in the 1998 FONSI remain valid. This determination is based on the *Re-evaluation of an EA for the Expansion of Midfield Cargo Facility Ramp at BWI Airport* dated June 22, 2017. See attached for our determination.

Mindy Lee
FEDERAL AVIATION ADMINISTRATION | WASHINGTON AIRPORTS DISTRICT OFFICE
23723 AIR FREIGHT LANE, SUITE 224 | DULLES, VA 20166
(703) 661-1364 | mindy.lee@faa.gov

U. S. Department
of Transportation

**Federal Aviation
Administration**

WASHINGTON AIRPORTS DISTRICT OFFICE
23723 Air Freight Lane, Suite 210
Dulles, VA 20166
Telephone: 703/661-1364
Fax: 703/661-1370

August 30, 2017

Robin Bowie, Acting Director **VIA EMAIL**
Office of Environmental Services
Maryland Aviation Administration
P.O. Box 8766
BWI Airport, MD 21240

RE: Re-evaluation of Midfield Cargo Facility Ramp Environmental Assessment

Dear Ms. Bowie:

The Federal Aviation Administration (FAA) is in receipt of the Maryland Aviation Administration's (MAA) written re-evaluation concerning the Midfield Cargo Facility Ramp Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA). In 1998, FAA issued an EA for the project with a corresponding Finding of No Significant Impact (FONSI) being issued on June 5, 1998. The full ramp expansion as described in the 1998 EA was not implemented within the FAA three-year timeline for major steps toward implementation after issuance of the FONSI. The proposed ramp expansion represents only a portion of the ultimate buildout originally studied to support air cargo operations in the 1998 EA; therefore; this project is subject to a re-evaluation pursuant to FAA Order 5050.4B, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions* and Order 1050.1F, *Environmental Impacts: Policies and Procedures.*

MAA's written re-evaluation outlines alternatives and identifies effects that could result from the preferred alternative to complete partial buildout of the mid-field cargo facility. The analysis presented in the written re-evaluation demonstrates that there are no meaningful differences of impacts to resources than that which was described in the 1998 EA.

Based on FAA's review of MAA's submitted documentation, FAA concurs that there are no significant effects as a result of this action; nor does this action represent new circumstances that would require supplemental documentation pursuant to FAA Order 5050.4B, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions* and Order 1050.1F, *Environmental Impacts: Policies and Procedures.* The EA for the project continues to be subject to review. Therefore, MAA should advise FAA if the nature and/or scope of the project changes in a manner requiring FAA to conduct future reviews or re-evaluations.

If you should have any questions concerning this letter, please do not hesitate to contact me at (703) 661-1364 or via e-mail at mindy.lee@faa.gov.

Sincerely,

Mindy Lee
Interim Environmental Protection Specialist

RE-EVALUATION
OF AN ENVIRONMENTAL ASSESSMENT
FOR

THE EXPANSION OF THE MIDFIELD CARGO FACILITY RAMP AT BALTIMORE/WASHINGTON INTERNATIONAL THURGOOD MARSHALL AIRPORT

LINTHICUM, MARYLAND

AUGUST 23, 2017

PREPARED FOR:
MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND AVIATION ADMINISTRATION
OFFICE OF ENVIRONMENTAL SERVICES

TABLE OF CONTENTS

1. Introduction 1
1.1 Summary 1
1.2 Background 1
2. Proposed Action 2
2.1 Previous Proposed Action (1998 EA) 2
2.2 Current Proposed Action (Re-Evaluation) 3
3. Summary and Findings of the EA/FONSI 3
3.1 Purpose and Need for the Project 4
3.2 Alternatives 5
3.2.1 Alternatives Considered, but Not Discussed in Detail 5
3.2.2 Alternatives Evaluated in Detail 5
3.3 Affected Environment 6
4. Summary of Changes to the Regulatory Requirements 6
4.1 FAA Orders 7
4.2 Local / State Requirements 9
5. Impact Analysis Re-Evaluation 9
5.1 Non-Issue Impact Categories 9
5.2 Potentially Affected Environmental Resource Categories 10
5.2.1 Air Quality 11
5.2.2 Biological Resources (including fish, wildlife and plants) 12
5.2.3 Climate 13
5.2.4 Coastal Resources 14
5.2.5 Hazardous Materials, Solid Waste and Pollution Prevention 15
5.2.6 Land Use 16
5.2.7 Natural Resources and Energy Supply 17
5.2.8 Noise and Noise-Compatible Land Use 18
5.2.9 Socioeconomics, Environmental Justice, and Children's Environmental Health and Safety Risks 19
5.2.10 Visual Effects (Including Light Emissions) 21
5.2.11 Water Resources (Wetlands, Surface Waters, Groundwater) 22
5.2.12 Cumulative Impacts 24
6. Agency and Public Involvement 25
6.1 Agency Scoping Letters 25
6.2 Agency Scoping Responses 25

6.3 Public Involvement 25
7. Conclusion 25

LIST OF FIGURES

Figure 1 1998 EA Proposed Action (Alternative 4R) 2
Figure 2 Proposed Action 3
Figure 3 Comparison of Current Proposed Action with 1998 EA Proposed Action (Alternative 4R) 3
Figure 4 Alternatives Evaluated in the 1998 EA 5

LIST OF TABLES

Table 3.1 Alternatives Evaluated in the 1998 EA 5
Table 4.1 FAA Order 1050/5050.4 Significance Threshold Updates 7
Table 5.1 Environmental Resource Categories Not Affected 10
Table 5.2 Summary of Potential Changes to Air Quality 12
Table 5.3 Summary of Potential Changes to Biological Resources 13
Table 5.4 Summary of Potential Changes to Climate 14
Table 5.5 Summary of Potential Changes to Coastal Resources 15
Table 5.6 Summary of Potential Changes to Hazardous Materials, Solid Waste and Pollution Prevention 16
Table 5.7 Summary of Potential Changes to Land Use Compatibility 17
Table 5.8 Summary of Potential Changes to Natural Resources and Energy Supply 18
Table 5.9 Daily Departures, 1998 EA vs. Actual (2016) 19
Table 5.10 Summary of Potential Changes to Noise and Noise-Compatible Land Use 19
Table 5.11 Summary of Potential Changes to Socioeconomics, Environmental Justice, and Children's Environmental Health and Safety Risks 21
Table 5.12 Summary of Potential Changes to Visual Effects (Including Light Emissions) 22
Table 5.13 Summary of Potential Changes to Water Resources (Wetlands, Surface Waters, Groundwater) 24
Table 5.14 Summary of Potential Changes to Cumulative Impacts 25

APPENDICES

Appendix A: Agency Coordination

Appendix B: Stormwater Treatment Calculations

RE-EVALUATION OF AN ENVIRONMENTAL ASSESSMENT FOR THE EXPANSION OF THE MIDFIELD CARGO FACILITY RAMP AT BWI MARSHALL AIRPORT

1. INTRODUCTION

1.1 SUMMARY

The Maryland Department of Transportation's Maryland Aviation Administration (MAA) proposes to expand the Midfield Cargo Facility Ramp from its current size by paving an approximately six-acre area adjacent to the existing ramp at Baltimore/ Washington International Thurgood Marshall Airport (BWI Marshall Airport). The additional ramp pavement will be constructed in Portland Cement Concrete (PCC) and incorporate a continuation of the original trench drain facilities to capture stormwater runoff.

The ramp expansion was assessed as part of the 1998 *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport* ("1998 EA"), however, the full ramp expansion was not implemented within the Federal Aviation Administration's (FAA) three-year timeline for major steps toward implementation after issuance of the Finding of No Significant Impact (FONSI). The proposed ramp expansion represents only a portion of the ultimate buildout originally studied to support air cargo operations in the 1998 EA. The proposed expansion is needed to accommodate a new carrier at BWI Marshall Airport. Because the original limited construction of the ramp is now insufficient, the MAA is completing a Re-Evaluation of the EA to satisfy FAA's procedures for compliance with the National Environmental Policy Act of 1969 (NEPA).

This Re-Evaluation is conducted in accordance with FAA Order 5050.4B, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions* and Order 1050.1F, *Environmental Impacts: Policies and Procedures.* In accordance with Order 1050.1F, a Re-Evaluation is a:

> "*…document used to determine whether the contents of a previously prepared environmental document (i.e., a draft or final EA or EIS) remain valid or a new or supplemental environmental document is required... the level of analysis should be commensurate with the potential for environmental impacts of a nature or extent not evaluated in the EA or EIS.*"[1]

The FAA is the lead federal agency to ensure compliance with NEPA for airport development actions.

1.2 BACKGROUND

Air cargo operations at BWI Marshall Airport represent a significant portion of the Airport's support facilities and provide a vital role in the operations and maintenance of the Airport. There are three primary air cargo facility areas at BWI Marshall Airport: North Cargo Complex, Elm Road Cargo Complex, and the Midfield Cargo Complex. These cargo areas combined contain approximately 412,000 square feet of building space on 100 acres of cargo-related land uses at the Airport. Access to the North Cargo Complex is via Aviation Boulevard and access to the Elm Road Complex is via Aviation Boulevard to Elm Road. Access to the Midfield Cargo Complex is via Mathison Way off Aviation Boulevard. Aircraft parking positions on the ramps are assigned by MAA with the cargo apron parking positions essentially operating as "preferential use" rather than "exclusive use" parking positions.[2]

The North Cargo Complex has six cargo buildings (A-F), the Elm Road Cargo Complex has three cargo buildings (107, 111, 112), and the Midfield Cargo Complex currently has one building (G). Each of the cargo areas also have airside cargo apron areas; the ramp areas at the North Cargo Complex/Elm Road Complex are identified as Cargo Apron I and Cargo Apron II, and encompass approximately 24 acres. The ramp area at the Midfield Cargo Complex includes approximately seven acres of aircraft ramp and taxiway/taxilane movement area. There is limited land area available around the North Cargo and Elm Road Cargo complexes as it is almost entirely developed. There is, however, additional space/capacity around the Midfield Cargo Complex. The Midfield Cargo Complex was constructed following analysis of air cargo operational needs and approval of the 1998 EA; however only a portion of the ultimate buildout originally studied to support air cargo operations was implemented.

Cargo operations at the Airport have been on the rise recently, with a 1.2% increase in annual volume between 2015 (128,633 tons) and 2016 (130,155 tons) and a projected annual growth in volume similar to the national average of 1.6% annually (domestic) through 2026.[3,4] Expanding the Midfield Cargo Facility Ramp would accommodate a new operator that is replacing the existing operator at the Midfield Cargo Area. The new operator requires more space than is presently available for aircraft parking. Additionally, the expanded ramp area would help accommodate the Airport's existing and forecast growth in air cargo operations.

2. PROPOSED ACTION

2.1 PREVIOUS PROPOSED ACTION (1998 EA)

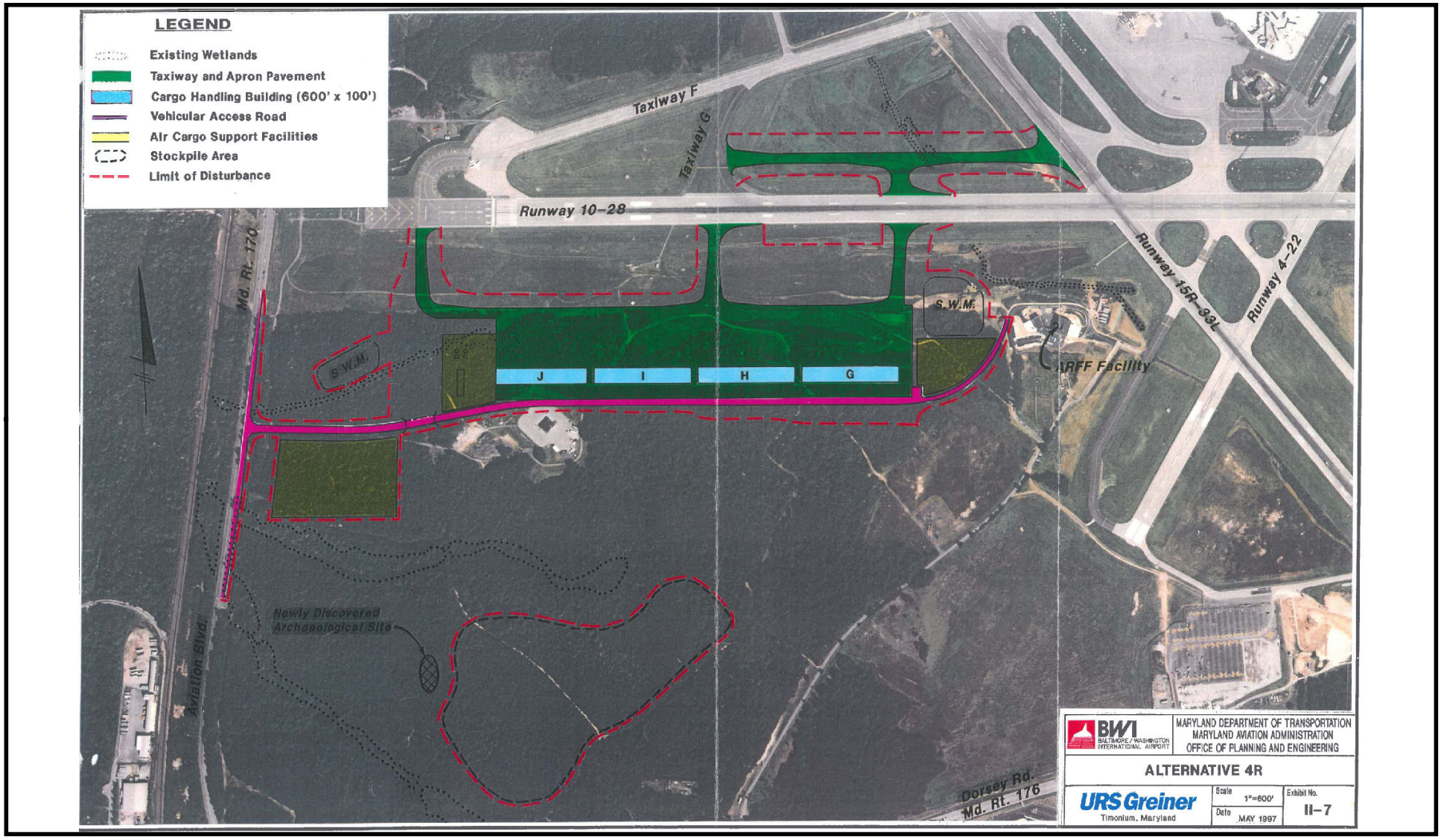
The Proposed Action for the 1998 EA was approval of a revision to the Airport Layout Plan (ALP) based on the "Alternative 4R" design concept. Alternative 4R (Proposed Action) proposed to construct new all-cargo facilities in a new midfield area of the Airport, southwest of Runway 10-28 and Runway 4-22, as illustrated in **Figure 1**. Other alternatives considered are discussed in *Section 3.2, Alternatives*.[5]

The 1998 EA Proposed Action included construction of the midfield cargo complex (Cargo Buildings G, H, I and J), as well as a new connecting and partial parallel taxiway to the north of Runway 10-28 for aircraft to access the existing runway system. Vehicular access to the new cargo complex would be provided by upgrading the unimproved access road connecting Aviation Boulevard at Gate 13 with the new ARFF facility to the east of the cargo complex. Approximately 43-acres south of the proposed access road of the midfield cargo complex near Aviation Boulevard would be available for development of cargo support facilities and other uses.[6]

It was anticipated that development of the proposed facilities would occur over a ten-year period, with the initial development phase to include the construction of the first two buildings (G and H) and access road, along with grading operations for the full development area. Ultimate development of the remaining buildings (I and J) and the support area south of the access road was anticipated to occur over the next eight years, with anticipated construction for Building I and J in 2003 and 2007, respectively, based on expected growth and demand.[7]

Following the 1998 EA/FONSI, the improvements were only partially implemented. Building G, along with approximately six acres of ramp area and four acres of air cargo support facility pavement (vehicle parking) were constructed, and the grading operations for the full development area were completed. The access road improvements were also implemented, along with the majority of the associated connecting and partial parallel taxiways. The full improvements were not implemented at the time because it was expected that, "...facilities will be developed as the need arises rather than on speculation of future use. In the MAA's planning process, timing of actual development is reviewed on an ongoing basis..."[8]

Re-Evaluation for Midfield Cargo Ramp Expansion



1998 EA Proposed Action (Alternative 4R)
Figure 1

Not to Scale

Source: MAA, Environmental Assessment for the Proposed Expansion of Air Cargo Facilities, June 1998.

2.2 CURRENT PROPOSED ACTION (RE-EVALUATION)

The Proposed Action considered in this Re-Evaluation is to expand the Midfield Cargo Facility ramp area by paving an approximately six-acre area adjacent to the existing ramp at BWI Marshall Airport, as illustrated in **Figure 2.** The ramp area can currently be used by three aircraft at the same time. With the proposed expansion, the ramp would be able to accommodate up to seven (7) aircraft concurrently, depending on the aircraft size. Additionally, the expanded ramp would reduce expected congestion on the ramp during peak periods or increase operational efficiency by mitigating split operations utilizing one of the other cargo areas as the market for cargo operations continues to increase in response to the growing economy.

The current Proposed Action to expand the ramp represents only a portion of the ultimate buildout originally studied to support air cargo operations in the 1998 EA, as shown on **Figure 3**. This figure illustrates the current Proposed Action, along with the original 1998 EA Proposed Action, overlaid on a current MAA aerial.

The proposed additional apron pavement would be constructed in Portland Cement Concrete (PCC) and would extend the original trench drain facilities in order to capture stormwater runoff. The existing area drains through trench drains into the closed stormdrain system to Pond B7 (east of the site), which has excess capacity to treat an additional 8.11 acres of impervious surface due to the SWM site being designed for the ultimate buildout. Therefore, it is anticipated that the existing stormwater management facility would accommodate the proposed additional stormwater runoff. Grading operations for the full development area were conducted as part of the construction that occurred following the 1998 EA, therefore the Study Area is currently flat and mowed/maintained.

The current Proposed Action would extend the glycol collection system to incorporate the additional parking positions. The new apron would include trench drain, diversion vaults and associated mechanical and control systems to isolate and collect the runoff from deicing operations and store in additional tanks for disposal per MAA requirements. The proposed location of six associated glycol collection storage tanks is shown on Figure 2. There may be other temporary mobile tanks placed on existing impervious surfaces during deicing season (depending on demand) in the vicinity of the apron, however other specific location(s) are currently unknown. Additionally, new high mast apron lights would be installed and all pavement marking and signage would be provided to support the operations.

Notice to Proceed for construction activities associated with the Midfield Cargo Facility Ramp expansion was received in July 2017 and is expected to be complete in December 2017. The project is consistent with the approved BWI Marshall Airport Layout Plan (ALP). Figure 2 illustrates the Study Area, which identifies the area to be used for construction staging and laydown adjacent to the expansion area, as well as a construction vehicle haul route.

3. SUMMARY AND FINDINGS OF THE 1998 EA/FONSI

The MAA performed an Air Cargo Complex Evaluation in 1995 to evaluate how the increased passenger and cargo airline activity at BWI Marshall Airport could affect facility planning. The evaluation recommended that new cargo development for all-cargo operations should occur in the area south of existing Runway 10-28 and that the existing BWI Cargo Complex should be dedicated to cargo operations that needed to be near the passenger terminal. In 1996, forecasts were completed for three growth scenarios of air cargo operations and tonnages.

The No Growth Scenario assumed cargo tonnage would remain consistent at 1995 levels of 162,834 tons as reported in the 1998 EA. The high growth scenario projected a 6.9 percent increase in cargo tonnage between 1995 and 1999 and a 4.6 percent increase beyond 1999 with approximately 403,000 tons of

LEGEND

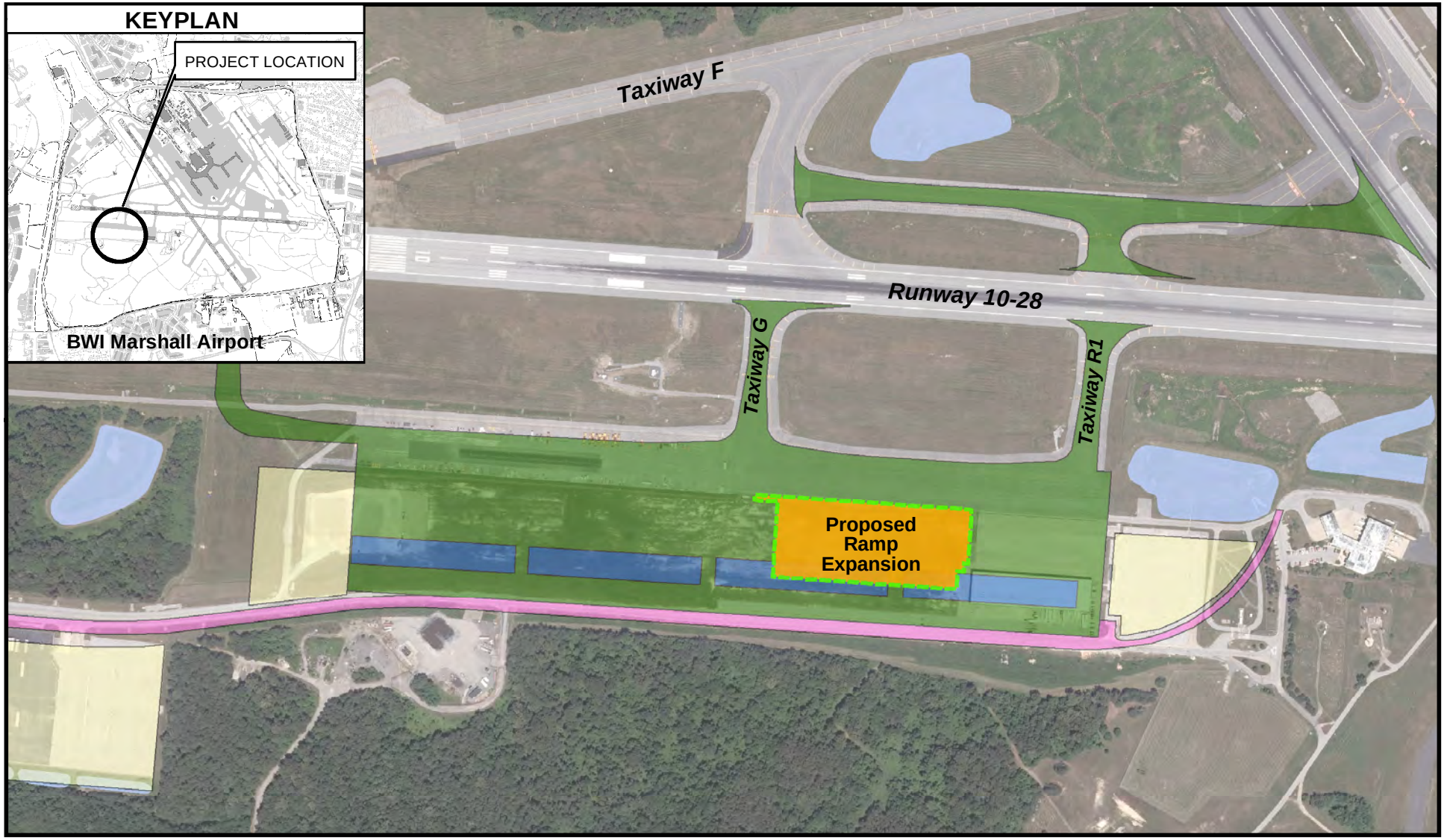
- Study Area
- Existing Stormwater Management Pond
- Proposed Pavement Improvements
- Proposed Staging Area

Proposed Action
Figure 2

N

0 150 300 600 Feet

Source: Aerial - MAA (2016), ADCI



LEGEND

- Proposed Pavement Improvements
- Existing Stormwater Management Pond

1998 EA Proposed Action (Alternative 4R)

- Air Cargo Support Facilities
- Cargo Building
- Taxiway and Apron Pavement
- Vehicular Access Road

Comparison of Current Proposed Action with 1998 EA Alternative 4R
Figure 3

N

0 300 600 1,200 Feet

Source: Aerial - MAA (2016), ADCI

cargo entering the Airport by 2015. Under the expected growth scenario, moderate growth in all-cargo services was projected. Between 1995 and 1999, air cargo activity was projected to increase 6 percent; beyond 1999, a 3.5% increase was projected, resulting in approximately 327,000 tons of cargo projected to be processed through BWI Marshall in the year 2015.[9] Actual cargo tonnage reported in 2015 at BWI Marshall Airport was 128,633 tons.[10,11] The methodology for reporting cargo tonnage has changed since 1998, therefore a comparison from 1998 to 2015 does not yield analogous results.

A summary of the Purpose and Need, Alternatives and Affected Environment chapters of the 1998 EA as they relate to the current Proposed Action of this Re-Evaluation are discussed in this section.

3.1 PURPOSE AND NEED FOR THE PROJECT (1998 EA/FONSI)

The purpose and need discussed in the 1998 EA for the air cargo facility improvements remains valid for the current Proposed Action. Based on the approved 1996 "Expected Growth" forecast, the 1987 Master Plan Study, and the 1995 evaluation of the Air Cargo Complex, it was projected that the (then) existing cargo facilities would not be able to accommodate expected growth in cargo activity through 2015 and that the demand for air cargo facilities would exceed available facilities through the planning period (Year 2015).

The facilities required to accommodate the expected cargo activity growth included additional aircraft parking apron, landside facilities, and cargo buildings. The (then) existing Cargo Complex and Elm Road cargo area were constrained in terms of apron expansion and cargo building expansion, and any measures to expand these areas by relocating existing facilities would have been inappropriate and expensive.

Specifically, the 1998 EA stated the following need for additional cargo facilities:

> *"Using industry planning guidelines for cargo complex layouts, approximately 65 acres [were] needed to contain 220,000 square feet of cargo building space and adjacent parking apron capable of supporting wide-body aircraft. In addition, an area of approximately 25 acres [was] needed to provide cargo support facilities, such as truck and employee/customer parking, fueling facilities, ground support equipment (GSE) storage, truck wash etc.*
>
> *Considering land requirements for vehicle access and circulation, it [was] estimated that an area comprising approximately 100 acres will be needed for locating additional air cargo facilities at BWI."* [13]

The 1998 EA emphasized that the facilities would be developed as the need arises rather than on speculation of future use. The EA states, "In the MAA's planning process, timing of actual development is reviewed on an ongoing basis and another evaluation of the demand for future cargo development is likely to occur before construction commences." [14]

<u>Re-Evaluation Update to Purpose and Need</u>

As stated in the 1998 EA, continuous evaluation of facilities has occurred and the need for the proposed additional ramp area to accommodate a new carrier at BWI Marshall Airport currently exists.[15] The new operator that is replacing the existing operator at the Midfield Cargo Area requires more space than is presently available for concurrent aircraft parking. The new carrier is currently using the existing ramp, however, the new user's operations are expected to increase toward the end of 2017, which would coincide with completion of the ramp construction. The ramp area can be currently used by three aircraft at the same time. With the proposed expansion, the ramp would be able to accommodate up to four additional aircraft, for a total of seven (7) aircraft concurrently, depending on the aircraft size. The

proposed expansion of the Midfield Cargo Facility Ramp would also help accommodate the Airport's existing and forecast growth in air cargo operations.

As discussed in *Section 2.1, Previous Proposed Action*, only a portion of the improvements were implemented following the 1998 EA. One cargo building was constructed ("Building G"), and approximately six acres of ramp area were constructed. Air cargo operations have not reached levels forecast for 2015 in the 1998 EA's Expected Growth Scenario, however air cargo operations have increased in recent years, with a 1.2% increase in annual volume between 2015 (128,633 tons) and 2016 (130,155 tons). According to the *FAA Aerospace Forecast: FY 2017-2037*, air cargo tonnage is forecast to grow nationally at a rate of 1.6% (domestic) and 2.8% (domestic and international) through 2026.[16,17]

3.2 ALTERNATIVES

3.2.1 ALTERNATIVES CONSIDERED, BUT NOT DISCUSSED IN DETAIL

Several alternatives were considered but not discussed in detail in the 1998 EA. The alternatives that were eliminated from further consideration include the following:

Redevelopment of Existing Facilities – Redevelop the entire existing Cargo Complex northeast of Elm Road to meet projected demand. Dismissed due to complexity of construction phasing, cost, and loss of utility during construction.

Relocation of Existing and Future Facilities – Relocate both existing and additional new cargo functions and facilities to a new midfield area south of existing Runway 10-28. Dismissed due to reduced customer service, inefficiency and cost.

Relocation of Demand to Another Airport – No new facilities would be developed at BWI Marshall Airport and future cargo demand would be encouraged to develop or relocate elsewhere. Dismissed due to previous investments made and significant financial losses to the local economy.

3.2.2 ALTERNATIVES EVALUATED IN DETAIL

Five "build" alternatives and a "no-build" alternative were developed to a level of detail to be comparatively assessed, and were evaluated to meet the purpose and need for the 1998 EA Proposed Action. Each of the build alternatives provided for incremental development of new cargo facilities as demand increased through the planning period. The alternatives are illustrated on **Figure 4**, and are summarized in **Table 3.1**.

Table 3.1

Alternatives Evaluated in the 1998 EA

No Build Alternative	Provides no new cargo facilities at the Airport.
Build Alternative 1	Expansion of the existing Cargo Complex into the existing Maintenance Area and construction of two new cargo buildings in the midfield area of the Airport.
Build Alternative 2	Construction of new cargo facilities in the southeast quadrant of the Airport.
Build Alternative 3	Construction of new cargo facilities in the southwest quadrant of the Airport.
Build Alternative 4	Construction of new cargo facilities in the midfield area of the Airport with a south parallel taxiway.

Table 3.1

Alternatives Evaluated in the 1998 EA

Build Alternative 4R	Construction of new cargo facilities in the midfield area of the Airport with a north parallel taxiway.

Source: MAA, *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, May 1998, p. ES-3.

Each of the build alternatives was evaluated using the following criteria:

- Its ability to satisfy the purpose and need for additional cargo facilities;
- The operational efficiencies associated with its location on the Airport;
- The nature and extent of potential environmental impacts due to construction;
- Its compatibility with existing and planned Airport facilities;
- Its feasibility and cost of construction; and
- Its capability to provide for expansion to meet demand beyond the Year 2015.

Alternative 1 would have required relocation of existing cargo or maintenance facilities; Alternatives 2 and 3 (southeast or extreme southwest area of the Airport, respectively) would have provided the least operational efficiency, the least room for ultimate expansion, and would have been costly to implement.

Alternatives 4 and 4R, located in the midfield area of the Airport, provided the most benefits for aircraft operations, offered the most room for ultimate expansion of future cargo facilities; and did not require the relocation of existing cargo or maintenance facilities. Although more expensive than Alternative 4, Alternative 4R reduced impacts to the Kitten Branch stream system, reduced the volume of material to be stockpiled, and provided additional water quality management in the area. As Alternative 4R adequately met all of the evaluation criteria, and had reduced environmental impacts as compared to Alternative 4, it was recommended as the Proposed Action. Alternative 4R as recommended in the 1998 EA remains valid.

3.3 Affected Environment

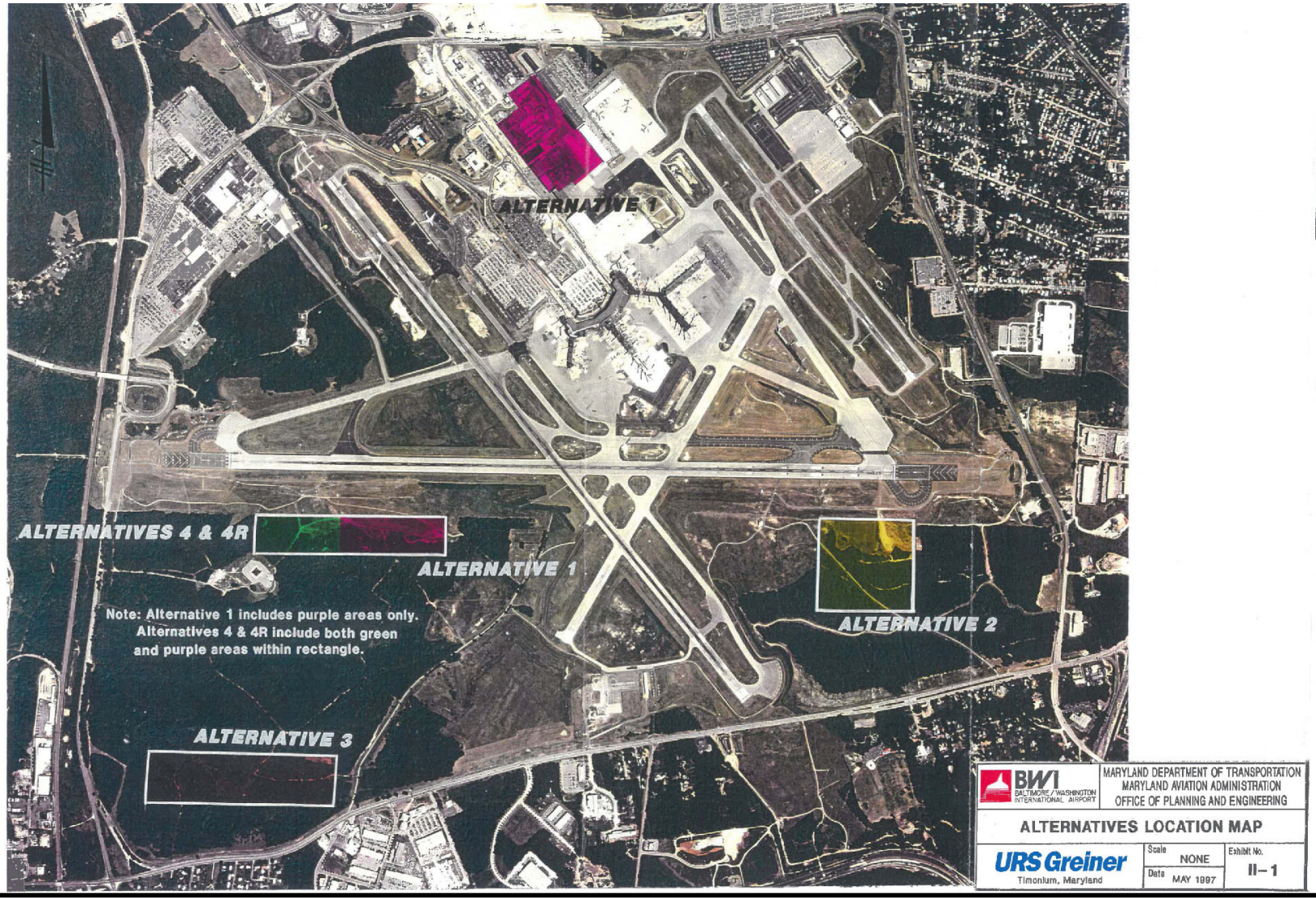
The affected environment remains similar as provided in the 1998 EA. Several changes to the airfield and terminal area have occurred since 1998, including the development of the Midfield Cargo Area and other projects specific in the 1998 EA Proposed Action, including the parallel taxiway north of Runway 10-28. No changes have occurred to the Airport's land uses or the surrounding land uses, however. Any changes to the existing conditions at the Airport or the Airport's surroundings are noted within the pertinent environmental category in *Section 5, Impact Analysis*. The Airport's physical layout and surroundings are depicted on Figure 2, along with the Study Area, which incorporates the area to be used for construction staging and laydown.

Sections 4 and 5 provide information related to changes to the regulatory requirements since 1998, as well as any change in environmental impacts.

4. Summary of Changes to the Regulatory Requirements

The FAA's policy and procedures for compliance with NEPA and implementing regulations issued by the Council on Environmental Quality (CEQ) have been updated since the 1998 EA was approved. Also, several local and State regulations have been updated. Updates to relevant federal, state, and local policies and procedures since the development of the 1998 EA are summarized.

Re-Evaluation for Midfield Cargo Ramp Expansion



Alternatives Evaluation in the 1998 EA
Figure 4

Not to Scale

Source: MAA, Environmental Assessment for the Proposed Expansion of Air Cargo Facilities, June 1998.

4.1 FAA ORDERS

The 1998 EA was conducted in accordance with FAA Order 1050.1D, Change 4, "Policies and Procedures for Considering Environmental Impacts" (June 14, 1999) and FAA Order 5050.4A, "Airport Environmental Handbook." Both Orders have been cancelled and replaced with subsequent guidance. The following current Orders are applicable to the Re-Evaluation for expansion of the Midfield Cargo Facility Ramp at BWI Marshall Airport:

- **FAA Order 1050.1F***, Environmental Impacts: Policies and Procedures*, became effective 7/16/15 and replaced Order 1050.1D, and subsequently Order 1050.1E. This Order serves as the FAA's policies and procedures for compliance with NEPA and implementing regulations issued by the CEQ.
- **FAA Order 5050.4B**, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions*, became effective in April 2006 and replaced FAA Order 5050.4A. This Order is a supplement to Order 1050.1F and is intended to provide instruction on evaluating those environmental effects.

To ensure all the environmental impact categories that were evaluated in the 1998 EA are considered in this Re-Evaluation, **Table 4.1** provides a list of the resource categories analyzed in the 1998 EA, along with the updated environmental impact categories evaluated for this Re-Evaluation in accordance with Order 1050.1F, the 1050.1F Desk Reference, and Order 5050.4B. Since the publication of Order 1050.1D, several of the resource categories have either been renamed or combined, any changes to terminology of environmental resource categories analyzed or relevant significance thresholds are included in Table 4.1.

The Environmental Consequences from the 1998 EA, as the impact categories pertain to the expansion of the Midfield Cargo Facility Ramp, is provided in *Section 5, Impact Analysis Re-Evaluation*.

Table 4.1

FAA Order 1050/5050.4 Significance Threshold Updates

FAA Orders 1050.1D and 5050.4A (1998 EA)	**FAA Orders 1050.1F and 5050.4B (Re-Evaluation)**	**Relevant Changes (if applicable)**
Noise	Noise and Noise-Compatible Land Use	Combined Noise and Compatible Land Use as it relates to noise compatibility into a single impact category.
Compatible Land Use		
Social Impacts	Socioeconomics, environmental justice, and children's environmental health and safety risks	Renamed and updated to include environmental justice and children's environmental health and safety risks. Demographic information of the geographic area of potentially significant impacts is used for purposes of anticipating and responding to public concerns about EJ and children in accordance with applicable Executive Orders, directives, and guidance

Table 4.1

FAA Order 1050/5050.4 Significance Threshold Updates

FAA Orders 1050.1D and 5050.4A (1998 EA)	FAA Orders 1050.1F and 5050.4B (Re-Evaluation)	Relevant Changes (if applicable)
		issued by the CEQ and EPA was added.
Induced Socioeconomic Impacts	N/A	Removed.
Air Quality	Air Quality	National Ambient Air Quality Standards (NAAQS) were updated in 2008. Section also added clarifying language to the significance threshold: "to include instances where the increase in frequency or severity of an existing violation would be significant."
Water Quality	Water Resources (including wetlands, floodplains, surface waters, groundwater, and wild and scenic rivers)	Combined water quality, wetlands and floodplains; No federal change applicable to Proposed Action.
Wetlands		
Floodplains		
Wild and Scenic Rivers		
Department of Transportation Act, Section 4(f)	Department of Transportation Act, Section 4(f)	No federal change applicable to Proposed Action.
Historical, architectural, archeological, and cultural resources	Historical, architectural, archeological, and cultural resources	No federal change applicable to Proposed Action.
Biotic Communities (including both Flora and Fauna)	Biological resources (including fish, wildlife, and plants)	Combined; special status species added (e.g., state species of concern, species proposed for listing, migratory birds, bald and golden eagles) or their habitats.
Endangered and Threatened Species of Flora and Fauna		
Coastal Zone Management Program	Coastal Resources	Combined; No federal change applicable to Proposed Action.
Coastal Barriers		
Farmlands	Farmlands	No federal change applicable to Proposed Action.
Energy Supply and Natural Resources	Natural Resources and Energy Supply	No federal change applicable to Proposed Action.

Table 4.1

FAA Order 1050/5050.4 Significance Threshold Updates

FAA Orders 1050.1D and 5050.4A (1998 EA)	FAA Orders 1050.1F and 5050.4B (Re-Evaluation)	Relevant Changes (if applicable)
Light Emissions	Visual Effects (including light emissions)	Added visual effects to resource category. Desk Reference states Visual effects are broken into two categories: 1) Light Emission Effects; and 2) Visual Resources and Visual Character.
Solid Waste Impacts	Hazardous Materials, Solid Waste, and Pollution Prevention	Added hazardous materials and pollution prevention.
Construction Impacts	--*	*In Order 1050.1F, this category is to be analyzed within each applicable environmental impact category.
N/A	**Climate**	New Category.
N/A	**Cumulative Impacts**	Cumulative impact analysis was required in the Order, but not as its own resource category.

Source: FAA Orders 1050.1D, 5050.4A (10/8/1985), FAA Order 1050.1F (8/6/2015), and Order 1050.1F Desk Reference (July 2015).

4.2 Local / State Requirements

Any changes to local or state requirements that are relevant to the potential impacts of the Midfield Cargo Facility Ramp expansion are identified and discussed in the relevant impact category in *Section 5.2, Potentially Affected Environmental Resource Categories.*

5. Impact Analysis Re-Evaluation

The potential environmental impacts of the Midfield Cargo Facility Ramp expansion were initially identified and evaluated in the 1998 EA as part of a larger Proposed Action to construct a larger Midfield Cargo Complex with associated airside/facility improvements. Updates to the impact analysis in this Re-Evaluation focus on impact categories that are relevant to the paving an approximately 800’ x 320’ area adjacent to the existing ramp facility, which represents only a portion of the ultimate buildout originally studied to support air cargo operations in the 1998 EA.

5.1 Non-Issue Impact Categories

Table 5.1 presents the environmental resource categories that will not be affected by the No Action and Proposed Action alternatives as well as the rationale for no further review of these categories. In

accordance with guidance provided in FAA Orders 5050.4B and 1050.1F, no further analysis of these resources is provided within this Re-Evaluation.

Table 5.1

Environmental Resource Categories Not Affected

Resource Category	Reason Not Included
Department of Transportation Act, Section 4(f) and Section 6(f) of the Land and Water Conservation Fund Act	There are no Section 4(f) or 6(f) Resources in the Study Area.
Farmlands	There are no farmlands present in the Study Area.
Historical, architectural, archeological, and cultural resources	No impacts to historic, architectural, archeological, or cultural property. In 1996, MAA prepared a Historic Preservation Plan (HPP) with input and coordination from Maryland Historic Trust (MHT) that provided an overview of the history and prehistory of BWI Marshall Airport, including an inventory of all recorded archaeological and historical resources located on Airport property as well as a planning manual/action plan component. Part of the HPP planning manual/action plan details the coordination required for project review and development. Specifically, for projects that fall within areas designated in the HPP as previously evaluated/no additional study is required, MAA is able to move forward with the proposed project without any further coordination with MHT. The proposed site is located in a "previously evaluated/no additional study required" area of the Airport. MAA received concurrence from the MHT dated 4/20/17 confirming that there are no historic properties affected by the Proposed Action (***Appendix A: Agency Coordination***).
Water Resources (Floodplains, and Wild and Scenic Rivers)	There are no floodplains in the Study Area. There are also no river segments listed in the Wild and Scenic River System nor the Nationwide River Inventory located within the vicinity of BWI Marshall Airport.

5.2 Potentially Affected Environmental Resource Categories

The potential environmental impacts of the Midfield Cargo Facility Ramp expansion were initially identified and evaluated in the 1998 EA as part of a larger Midfield Cargo Facility construction effort. Given that the full development was not implemented within the FAA's three-year timeline for major steps toward implementation after issuance of the FONSI, and given updates in FAA Orders and other environmental regulations, additional and/or updated analysis is required for assessment of potential impacts.

Updates to the impact analysis in this Re-Evaluation focus on impact categories that are relevant to the current Proposed Action only. The following environmental resources are assessed in this EA based on requirements in FAA Order 1050.1F:

- Air Quality
- Biological Resources (including fish, wildlife and plants)
- Climate
- Coastal Resources
- Land Use

- Hazardous Materials, Solid Waste, and Pollution Prevention
- Natural Resources and Energy Supply
- Noise and Noise-Compatible Land Use
- Socioeconomic Impacts, Environmental Justice, and Children's Environmental Health and Safety Risks
- Visual Effects (including light emissions)
- Water Resources (Wetlands, Surface Waters, Groundwater)
- Cumulative Impacts

The following environmental resource categories address FAA Orders 1050.1F and 5050.4B requirements and significance thresholds. Where possible, the impact of the current Proposed Action is separated for a comparable analysis between the EA and the Re-Evaluation. However, the analysis in the EA sometimes includes the impact(s) of implementing all components of Alternative 4R of the 1998 EA, as separating out the six-acre area paved expansion was not always possible.

5.2.1 AIR QUALITY

SUMMARY OF 1998 EA – ALTERNATIVE 4R

At the time of the air quality analysis for the 1998 EA, Anne Arundel County (within the Baltimore region) was designed as a "severe" non-attainment area for O_3. In accordance with the Clean Air Act, a revised State Implementation Plan (SIP) was developed by the MDE demonstrating attainment of the US EPA's established National Ambient Air Quality Standards (NAAQS) for O_3 by the year 2005. In order to assess air emissions associated with BWI Marshall Airport specifically, the MAA commissioned a BWI Marshall Air Quality Plan in 1994. The plan addressed aircraft, ground service vehicles, motor vehicles, fuel facility and other small sources of air emissions at the Airport. The results of the plan and the associated report served as a basis for evaluating existing and future air quality impacts and control measures associated with BWI Marshall Airport and its development.

The 1998 EA determined that total air emissions at BWI Marshall Airport with the proposed air cargo facility expansion were expected to be less than, or equal to, the levels contained in the BWI Marshall Air Quality Plan through the Year 2015 under all Build Alternatives. This conclusion was based on the comparison of forecasted operational levels developed in support of this EA and the Air Quality Plan. While operational levels were consistent for all Build Alternatives, the aircraft taxi-in and taxi-out times were the potential variables between the Build Alternatives that could affect air emissions. Because Alternative 4R was located in the midfield area of the Airport, it was determined that it would operate less taxi-related emissions compared to the alternatives located in the southeast and southwest quadrants of the Airport.

Because forecasted operations at BWI Marshall Airport with the proposed air cargo facility expansion were consistent with those used to develop the air emission inventories contained in the Air Quality Plan, the project was found to conform to the SIP.

RE-EVALUATION IMPACT ANALYSIS – CURRENT PROPOSED ACTION

Anne Arundel County is presently designated by the EPA as moderate non-attainment for ozone (O_3) and maintenance for particulate matter equal to or less than 2.5 micrometers ($PM_{2.5}$) in diameter. While the US EPA's established NAAQS for various air pollutants have changed since the air quality analysis that was conducted for the 1998 EA, the changes to the NAAQS are not discussed because the Proposed Action is Presumed to Conform (PTC) in accordance with Federal Register Notice (FRN), Vol.72 No. 145 under *Category #3 – Non-Runway Pavement Work.* The square footage of all the pavement work (800' x

320' = 256,000 SF) is within the New Airfield Work (non-runway) limits set forth in *Table III-1: Presumed to Conform Limits for Selected Projects* in the FRN. The square footage of the non-runway pavement work is within the $PM_{2.5}$ PTC (Maintenance) limits (26,050,568 SF) and the most stringent moderate nonattainment Ozone PTC (Moderate) limits for NOx and VOC (2,193,881 SF and 11,916,560 SF, respectively) under New Airfield Work (non-runway).

Construction

Although construction-related emissions associated with the proposed project is considered PTC and would be temporary in duration, these emissions can be further reduced by employing the following measures: Reduction of exposed erodible surface area through appropriate materials and equipment staging procedures; Cover of exposed surface areas with pavement or vegetation in an expeditious manner; Reduction of equipment idling times; Ensure contractor knowledge of appropriate fugitive dust and equipment exhaust controls; Soil and stock-pile stabilization via cover or periodic watering; Use of low- or zero-emissions equipment; Use of covered haul trucks and conveyors during materials transportation; Reduction of electrical generator usage, wherever possible; Suspension of construction activities during high-wind conditions; Creation of dust, odor and nuisance reporting system; Daily watering of exposed surfaces and demolition activities; Reduction of vehicles speeds onsite; and Prohibition of open burning for waste disposal.

***Conclusion*:** There would be no significant air quality impacts associated with the expansion of the Midfield Cargo Facility Ramp, therefore, no air quality mitigation measures are required for this project. However the above mentioned construction emission mitigation measure will be implemented in an effort to further reduce emissions.

Table 5.2

Summary of Potential Changes to Air Quality

Impacts		**Change (Y/N)**	**If yes, proposed mitigation**
1998 EA Alternative 4R	**Re-Evaluation for Proposed Action**		
No significant impact.	Presumed to Conform; No significant impact.	N	N/A

5.2.2 BIOLOGICAL RESOURCES (INCLUDING FISH, WILDLIFE AND PLANTS)

SUMMARY OF 1998 EA – ALTERNATIVE 4R

The 1998 EA describes the impacts to *Biotic Communities*, and *Endangered and Threatened Species of Flora and Fauna* resulting from Alternative 4R.

Biotic Communities – Alternative 4R would impact 105 acres of forest and 115 acres of mowed grassland. Approximately 48 acres of these impacts were due to impacts from the proposed stockpiling of 2.4 million cubic yards of excess material generated by the earthwork to construct this alternative.

After construction, the stockpile sites would be graded and seeded. Impacts were to be coordinated with MDNR for compliance with the 1991 Forest Conservation Act (FCA). The Master Reforestation Plan that was being prepared at the time outlined the required replanting and preservation techniques for each project at BWI Marshall. An individual Forest Conservation Plan (FCP) was also coordinated with MDNR, and was found to comply with the FCA. The MAA had sufficient reforestation credit at the time to compensate for the impacts associated with a new air cargo complex.

Endangered and Threatened Species of Flora and Fauna – There were no known rare, threatened or endangered (RTE) species on the existing or planned development areas of Alternative 4R.

***Conclusion*:** Due to the impact to forest and mowed grassland, development of an FCP was required to identify the impacts and necessary reforestation to comply with the FCA. There would be no significant impacts to endangered or threatened species associated with Alternative 4R, therefore, no mitigation measures were required for this project.

RE-EVALUATION IMPACT ANALYSIS – PROPOSED ACTION

The Study Area was graded and prepared for development following the 1998 EA/FONSI, and is currently mowed and maintained for airfield operations. According to the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) tool, there are no threatened, endangered, or candidate species present in the Study Area. There are also no Critical habitats, National Wildlife Refuges, or Fish Hatcheries present in the Study Area.

Certain birds are protected under the Migratory Bird Treaty Act (MBTA); any activity that results in the take of migratory birds or eagles is prohibited unless authorized by the USFWS. The IPaC search for the Study Area resulted in 27 migratory birds that may be potentially affected by activities in this location. The MAA adheres to a Wildlife Hazard Management Plan (WHMP), developed in cooperation with the U.S. Department of Agriculture's Wildlife Services program that emphasizes identification and abatement of wildlife hazards within the airfield environment, outlines priorities for habitat management, and manages the airfield in a way that is non-conducive to hazardous wildlife, including migratory birds. Refer to *Appendix A: Agency Coordination*, for the Official Species List for the Study Area.

***Conclusion*:** There would be no significant impacts to Biological Resources (including fish, wildlife and plants), or any biotic communities such as forested area associated with the expansion of the Midfield Cargo Facility Ramp, therefore, no mitigation measures are required for this project.

Table 5.3

Summary of Potential Changes to Biological Resources

Impacts		**Change (Y/N)**	**If yes, proposed mitigation**
1998 EA Alternative 4R	**Re-Evaluation for Proposed Action**		
Biotic Communities – No significant impact with mitigation. *Endangered and Threatened Species* –No significant impact.	No significant impact.	N	N/A

5.2.3 CLIMATE

SUMMARY OF 1998 EA

Evaluation of impacts to Climate was not required for the EA because it was not a resource category identified in FAA Order 1050.1D/5050.4A.

RE-EVALUATION IMPACT ANALYSIS – PROPOSED ACTION

Research has shown there is a direct correlation between fuel combustion and greenhouse gas (GHG) emissions. According to the 1050.1F Desk Reference, "GHG emissions result from anthropogenic sources including the combustion of fossil fuels. GHGs are defined as including carbon CO_2, methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). CO_2 is the most important anthropogenic GHG because it is a long-lived gas that remains in the atmosphere for up to 100 years. Climate change is a global phenomenon that can have local impacts...Research has shown there is a direct correlation between fuel combustion and GHG emissions."[18]

No quantitative data on GHG emissions is available for the Study Area, however GHG emissions can be discussed qualitatively in relation to the air quality impacts. The Proposed Action would not result in exceedances of the applicable *de minimis* threshold for criteria pollutants, therefore it is assumed that there would be a minimal increase of emissions of greenhouse gases during the short-term construction period. Notably, there are no *de minimis* thresholds by which you could evaluate the magnitude of the increase in greenhouse gases.

***Conclusion*:** There would be no significant impacts to the expansion of the Midfield Cargo Facility Ramp, therefore, no mitigation measures are required for this project.

Table 5.4

Summary of Potential Changes to Climate

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Re-Evaluation for Proposed Action**		
N/A	No significant impact.	N	N/A

5.2.4 COASTAL RESOURCES

SUMMARY OF 1998 EA – ALTERNATIVE 4R

The *Coastal Zone Management Program* and *Coastal Barriers* of the 1998 EA discuss these resources as they relate to Alternative 4R.

Coastal Zone Management Program – The Alternative 4R development was located within the Maryland Coastal Zone, as defined by the Maryland Coastal Zone Management Program. In a response dated January 6, 1998, the MDE provided concurrence that the proposed activities were consistent with the State's CZMP, as required by Section 307 of the Federal CZMA, as amended. The concurrence was conditioned on the applicant's receipt of a Nontidal Wetlands and Waterways permit and adherence to the conditions of the permit, which was received February 13, 1998.

Coastal Barriers – The Alternative 4R development was not located in the Coastal Barrier Resources System and will not impact coastal barriers.

***Conclusion*:** There would be no significant impacts to the Coastal Zone Management Program or Coastal Barriers associated with Alternative 4R, therefore, no mitigation measures were required for this project.

RE-EVALUATION IMPACT ANALYSIS – PROPOSED ACTION

The Study Area is in Anne Arundel County, which continues to be considered part of Maryland's Coastal Zone, thus MAA is required to comply with the regulations set forth and administered by MDE and MDNR. The MAA submitted a request to the MDE Federal Consistency Coordinator on April 19, 2017 seeking confirmation that expanding the Midfield Cargo Facility ramp remains consistent with the Maryland Coastal Zone Management Program, as required by Section 307 of the Coastal Zone Management Act of 1972, as amended (CZMA). The MDE responded April 20, 2017 that, based on the information provided "…including our previous review of the 1998 EA, the proposed expansion of the Midfield Cargo Facility Ramp is consistent with the Maryland Coastal Zone Management Program, as required by Section 307 of the CZMA." Correspondence with the Federal Consistency Coordinator is included in *Appendix A: Agency Coordination.*

The ramp expansion is not located in the Coastal Barrier Resources System and will not impact coastal barriers.

***Conclusion*:** Confirmation that expanding the Midfield Cargo Facility ramp remains consistent with the CZMP, as required by Section 307 of the CZMA, was requested and received. The ramp expansion would be consistent with the CZMA and thus no mitigation measures are required for this project. See *Appendix A, Agency Coordination.*

Table 5.5

Summary of Potential Changes to Coastal Resources

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Re-Evaluation for Proposed Action**		
Coastal Zone Consistency Determination received; conditions of Nontidal Wetlands and Waterways permit applicable.	No significant impact; Coastal Zone Consistency Determination received.	N	N/A

5.2.5 HAZARDOUS MATERIALS, SOLID WASTE AND POLLUTION PREVENTION

SUMMARY OF 1998 EA – ALTERNATIVE 4R

There is no hazardous materials section in the 1998 EA and information about hazardous materials is not included in the EA. The primary sources of solid waste produced by Alternative 4R development were expected to be trees and excavated earth needed in order to construct the development. Alternative 4R would require the clearing of approximately 220 acres of land, including 55 acres of stockpile area and generation of approximately 2.4 million cubic yards of excess fill material. The fill material would not require off-site hauling, but would be stockpiled on-site.

The EA stated that all solid waste generated by the proposed action would be disposed of in the Annapolis sanitary landfill. However, it was determined that this landfill did not have a current refuse disposal permit from the Waste Management Administration. Therefore, as a mitigation measure, the FONSI stated that the Airport Sponsor must ensure that all solid waste would be disposed of in a facility that has a current refuse disposal permit issued by the Waste Management Administration.

Conclusion: There would be no significant impacts to Hazardous Materials or Solid Waste associated with Alternative 4R, however, as mitigation, the MAA was to ensure that all solid waste would be disposed of in a facility that had a current refuse disposal permit issued by the Waste Management Administration.

RE-EVALUATION IMPACT ANALYSIS – PROPOSED ACTION

Hazardous Materials – There are no known hazardous material sites in the Study Area for the current Proposed Action. To the extent that hazardous materials would be used on site, they would continue to be handled, used, stored, transported, and disposed of pursuant to applicable State, federal, and local regulations. There are no National Priorities List (NPL) sites or facilities at BWI Marshall Airport, or the vicinity. The Study Area for the expansion was cleared and graded as part of the construction for the development that occurred following the 1998 EA. Prior to clearing and grading the site, it was forested and/or open field, and previously undisturbed.[19] It was not previously used by the Airport for any other use. The Study Area has been a part of Airport property since it was purchased from the City of Baltimore in the early 1970s.

Solid Waste and Pollution Prevention – The operation of the expanded ramp area, once constructed, would not generate additional solid waste.

<u>Construction</u>
During construction, the contractor would use disposal methods in accordance with state and local regulations for any disposal of spoil materials, however minimal excavation is expected, as the area was previously graded. Any solid waste generated from the project would be properly disposed of at a permitted solid waste facility, or recycled, if possible.

Conclusion: There would be no significant environmental impacts related to hazardous materials or solid waste associated with the expansion of the Midfield Cargo Facility Ramp, therefore, no mitigation measures are required for this project.

Table 5.6

Summary of Potential Changes to Hazardous Materials, Solid Waste and Pollution Prevention

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Re-Evaluation for Proposed Action**		
No significant impact with mitigation.	No significant impact.	N	N/A

5.2.6 LAND USE

SUMMARY OF 1998 EA – ALTERNATIVE 4R

As the development of Alternative 4R would be entirely contained on Airport property, there would be no direct impacts to land uses adjacent to the Airport. The proposed project was consistent with Anne Arundel County's General Development Plan. Additionally, the EA stated that the proposed project would enhance the area's position as a regional industrial center in the Baltimore region and would be likely to stimulate additional economic activity around the Airport.

Conclusion: There would be no significant impacts to land use compatibility associated with Alternative 4R, therefore, no mitigation measures were required for this project.

RE-EVALUATION IMPACT ANALYSIS – PROPOSED ACTION

The expansion of the Midfield Cargo Facility Ramp would occur in an existing cargo area of the Airport, near Aviation Support Areas, and would be consistent with the designated land uses at BWI Marshall Airport. The Study Area is designated as "Aviation Support" on the approved ALP. The majority of the Airport is still zoned Residential, which does not reflect the current use. The Airport's land uses are consistent with the County's most up-to-date General Development Plan (2009). The Airport is bordered by industrial, residential, open space, and small areas of commercial zones. Industrial zones are concentrated in the area west of the airport. Residential zones are scattered around the airport and are concentrated northeast of the airport.

***Conclusion*:** There would be no significant impacts to land use associated with the expansion of the Midfield Cargo Facility Ramp, therefore, no mitigation measures are required for this project.

Table 5.7

Summary of Potential Changes to Land Use Compatibility

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Re-Evaluation for Proposed Action**		
No significant impact.	No significant impact.	N	N/A

5.2.7 NATURAL RESOURCES AND ENERGY SUPPLY

SUMMARY OF 1998 EA –ALTERNATIVE 4R

The 1998 EA stated that increases in energy consumption directly and indirectly caused by the proposed expansion of air cargo facilities at the Airport would not result in significant impacts to energy supply or natural resources because (1) Baltimore Gas and Electric (BGE) had demonstrated sufficient capacity to provide for increased consumption of electric power associated with the proposed additional facilities; and (2) the proposed project would not involve the use of any unusual natural resources, or those in short supply. Additionally, there would be no interference with the Airport's existing or planned utilities or circuits/facilities.

Conclusion: There would be no significant impacts to natural resources and energy supply associated with Alternative 4R, therefore, no mitigation measures were required for this project.

RE-EVALUATION IMPACT ANALYSIS – PROPOSED ACTION

The only additional energy use required by the Proposed Action is the additional lighting for the new high mast apron lights that would be installed to support the ramp expansion and use of the area. The additional energy consumption required would not amount to a significant percent of total Airport use, and would not create a substantial increase in demand for local resources and utilities or strain the capacity/supply of these resources/ utilities to the meet the additional demand.

Additionally, the Proposed Action would not involve the use of any unusual or scarce materials and would not cause a demand for the use of any unusual natural resource or the use of any resource that is in short supply. There are no known deposits of valuable natural resources located on or near the Study Area that would be affected by the Proposed Action and the Proposed Action would not cause a substantial increase in demand for local resources and utilities or strain the capacity/supply of these resources/utilities to the meet the additional demand.

***Conclusion*:** There would be no significant impacts to natural resources or energy supply associated with the expansion of the Midfield Cargo Facility Ramp, therefore, no mitigation measures are required for this project.

Table 5.8

Summary of Potential Changes to Natural Resources and Energy Supply

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Re-Evaluation for Proposed Action**		
No significant impact.	No significant impact.	N	N/A

5.2.8 Noise and Noise-Compatible Land Use

Summary of 1998 EA – Alternative 4R

Noise analysis was conducted to compare between the Build and No Build Scenarios during selected years. Eight scenarios were developed: 1995 Base Year, 1999 No Build, 1999 Build-Expected Growth, 1999 Build-High Growth, 2015 No Build, 2015 Build-Expected Growth, 2015 Build-High Growth, and 2015 Build-High Growth with a cumulative impact scenario with proposed parallel 10-28 Runway. The Build scenarios assumed growth in air cargo operations only if the proposed facilities were built.

It was determined that the noise effects of the proposed cargo facility were not considered significant. Noise contours increased by between 0.2 and 0.5 dBA, assuming the “worst case” scenario in 2015. These levels were well below the significance threshold of a 1.5 dBA increase in noise sensitive areas within a DNL 65 area as established by the FAA. Ground noise from the proposed Midfield Cargo Facility (taxiing, engine start-up, use of auxiliary power units, etc.) was also evaluated and would not be expected to cause any significant noise impacts in the closest residential areas to the south of the Airport.

During construction, short term effects of noise would occur and would be controlled by construction contract specifications.

Conclusion: There would be no significant impacts to noise exposure associated with Build Alternative 4R, therefore, no mitigation measures were required for this project.

Re-Evaluation Impact Analysis – Proposed Action

It is likely that additional cargo aircraft would taxi to the Midfield Cargo Complex since there would be additional parking area, however the Proposed Action still only represents a portion of the full build-out of Alternative 4R. Additionally, the 1998 EA analysis determined that there was no significant impact with a 2015 forecast that was substantially higher than what has actually occurred. Specifically, the 1998 EA forecast 18 daily air cargo operations in the 2015 Expected Growth scenario and 23 daily operations in the 2015 High Growth scenario, as show in **Table 5.9**. In 2016 there were eight daily cargo operations. Therefore, the growth in cargo operations is still less than half the Expected Growth scenario total analyzed for the noise analysis conducted in the 1998 EA. An expected increase of approximately 1.6% annually would not result in significant noise impacts.[20] Additionally, the fleet mix from the 1998 EA used for the 2015 scenario included Stage II aircraft that are no longer allowed to operate. Thus, the noise associated with the mid-field cargo expansion will be quieter than what was projected in the 1998 EA for 2015.

Table 5.9

Daily Departures, 1998 EA vs. Actual (2016)

Type of Operation	1995		1999 No-Build		1999-Build-Expected Growth		2015 No-Build		2015 Expected Growth		2015 Build – High Growth		2016 Actual	
	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Domestic	168	13	186	15	186	15	241	19	241	19	241	19	251	46
International	16	1	17	1	17	1	21	1	21	1	21	1	13	2
Charter	4	1	5	1	5	1	6	1	6	1	6	1	11	2
Subtotal	*188*	*15*	*208*	*17*	*208*	*17*	*268*	*21*	*268*	*21*	*268*	*21*	275	50
Cargo	**4**	**9**	**3**	**9**	**4**	**11**	**3**	**9**	**5**	**13**	**8**	**15**	**7**	**1**
Total	192	24	211	26	212	28	271	30	273	34	276	36	282	51

Source: BWI, Proposed Air Cargo Facility Expansion, EA, Table IV-5, and FAA Operations Network (OPSNET), 2016.

Finally, ground noise was also found to not be significant in the 1998 EA and there are no noise sensitive receptors in the vicinity of the Study Area. Ground noise would be less with the current Proposed Action due to less apron to accommodate parking than what was included in Alternative 4R. Thus, any changes to the noise environment as a result of the additional ramp area is not expected to be significant.

There would be no substantive change to the projected noise environment with the Proposed Action, therefore there would be no potential for impacts to compatible land use related to noise.

Construction

Overall, the construction phase of this project would be expected to create minor and temporary impacts at the project site and in the surrounding airfield and terminal area. These impacts would be short-term in nature, lasting for the duration of construction activities. Temporary noise impacts would be generally localized at the vicinity of the construction site and the localized increase in noise levels would not disrupt normal airport operations or activities.

***Conclusion*:** There would be no significant impacts to noise and noise-compatible land use associated with the expansion of the Midfield Cargo Facility Ramp, therefore, no mitigation measures are required for this project.

Table 5.10

Summary of Potential Changes to Noise and Noise-Compatible Land Use

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	Re-Evaluation for Proposed Action		
No significant impact.	No significant impact.	N	N/A

5.2.9 Socioeconomics, Environmental Justice, and Children's Environmental Health and Safety Risks

Summary of 1998 EA – Alternative 4R

Alternative 4R in the 1998 (as with all Build Alternatives) would be constructed on airport property, and would not divide or disrupt any of the established communities within the area. The 1998 EA determined that expansion of cargo facilities would have a positive impact on the economic growth in the Airport

vicinity and the Baltimore metropolitan region. The EA noted that additional employment would be created, regardless of the Build Alternative selected.

The EA stated that the Build alternatives would increase traffic volumes on the adjacent roadways, particularly Aviation Boulevard, MD Route 100, Dorsey Road, and I-95, however it was determined that the area roadway network had sufficient capacity to accommodate the increased post-construction traffic volumes. The analysis applied an annual growth rate of 2 percent (consistent with previous traffic projections conducted for Airport activities) to the 1994 Average Daily Traffic (ADT) volumes at the MD Route 170 (Aviation Boulevard) and MD Route 176 (Dorsey Road) intersection and the Aviation Boulevard and I-95 intersection to determine a preliminary Year 2000 traffic volume projection. The proposed project was not likely to increase average annual traffic volumes at either intersection in the future by more than the 2 percent growth rate used for the Year 2000 projects; thus, the project was not anticipated to generate a need for additional roadway or intersection improvements in the short-term, with the exception of possible turning lanes at the facility entrance. Four buildings were included as part of Alternative 4R.

Conclusion: There would be no significant impacts to socioeconomics associated with Build Alternative 4R, therefore, no mitigation measures were required for this project.

Re-Evaluation Impact Analysis – Proposed Action

The Proposed Action would not cause any impacts to surrounding communities or shift any business or economic activity or population movement or shifts in a community. The ramp expansion would not impact the economic development or health and safety of the communities that exist near the Airport. There are no residential areas, schools, day cares, playgrounds, parks, or children's health clinics in the immediate vicinity of the Study Area. Therefore, no neighborhoods or populations would be impacted by the Proposed Action and no disproportionately high and significant impacts on minority and low-income populations with respect to human health and environment would occur.

The additional ramp area is not expected to materially increase vehicle traffic, and any additional vehicle traffic would be expected during off peak hours (i.e., not during AM and PM commuting hours). There is currently one cargo facility building, however four buildings were proposed as part of Alternative 4R, and the traffic analysis was conducted for the full buildout. The current Proposed Action does not propose any additional/new sorting facilities or buildings, therefore the space for sorting would remain the same as it is currently and the ability to load and unload cargo onto delivery trucks would remain the same with the Proposed Action, which would mean that truck delivery volume/demand on local roads (Aviation Boulevard and Mathison Way) would be similar to the volume/demand experienced presently.

No direct or indirect economic impact analysis was conducted for this Re-Evaluation, however it is expected that there would be an increase in the availability of construction jobs during the construction period.

***Conclusion*:** There would be no significant impacts to Socioeconomics, Environmental Justice, and Children's Environmental Health and Safety Risks associated with the expansion of the Midfield Cargo Facility Ramp, therefore, no mitigation measures are required for this project.

Table 5.11

Summary of Potential Changes to Socioeconomics, Environmental Justice, and Children's Environmental Health and Safety Risks

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Re-Evaluation for Proposed Action**		
No significant impact.	No significant impact.	N	N/A

5.2.10 VISUAL EFFECTS (INCLUDING LIGHT EMISSIONS)

SUMMARY OF 1998 EA – ALTERNATIVE 4R

The 1998 EA discusses impacts to light emissions under the Energy Supply and Natural Resources section for the Build Alternatives. The Build Alternatives would result in an increase of light emissions from the Airport, however, none of the light sources were expected to significantly increase light emissions to residential uses. The EA noted that shielding and screening techniques would be considered in the construction of the additional air cargo buildings/apron as well as all associated support facilities to minimize any potential impacts on residential areas.

Evaluation of visual effects/impacts was not required for the EA because it was not a resource category identified in FAA Order 1050.1D/5050.4A.

Conclusion: There would be no significant impacts to light emissions associated with Alternative 4R, therefore, no mitigation measures were required for this project.

RE-EVALUATION IMPACT ANALYSIS – PROPOSED ACTION

Light Emission Effects – New high mast apron lights would be installed to support the cargo complex operations in the expanded ramp area. The Airport currently has light emissions from aircraft, ground operations, work area lighting and security lighting. Therefore, any additional light from the expanded ramp area would not significantly change the light emissions from current conditions. Lighting for the Midfield Cargo Facility Ramp would be designed to comply with FAA and airport lighting standards in order to ensure there would be no negative impacts to runway operations or aircraft safety.

Visual Resources and Visual Character – Pavement marking and signage in the expanded ramp area would be provided to support the operations, and would be consistent with the cargo area and the existing built environment and surroundings.

***Conclusion*:** There would be no significant impacts from light emissions or visual resources/visual character with the expansion of the Midfield Cargo Facility Ramp, therefore, no mitigation measures are required for this project.

Table 5.12

Summary of Potential Changes to Visual Effects (Including Light Emissions)

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Re-Evaluation for Proposed Action**		
No significant impact.	No significant impact.	N	N/A

5.2.11 WATER RESOURCES (WETLANDS, SURFACE WATERS, GROUNDWATER)

SUMMARY OF 1998 EA – ALTERNATIVE 4R

The 1998 EA describes the impacts to *Water Quality and Wetlands* resulting from Alternative 4R.

Water Quality – The EA analyzed impacts of Alternative 4R by drainage area. The analysis noted that the development would result in drainage area diversions and land use changes. The Kitten Branch drainage area would increase by 10.2 acres and would include an additional 50 acres of impervious area from the proposed cargo complex. Stormwater runoff would be directed into a new infiltration basin to handle the increased flow. The new basin would be constructed in the infield area between the proposed north parallel taxiway and Taxiway F. Additionally, infiltration trenches would be installed with level spreading devices to help reduce peak flow.

The Signal Branch drainage area would decrease by 10.7 acres and would include an additional 49 acres of impervious area from the proposed cargo complex. Open channel flow and new infiltration trenches would be utilized where possible. Hawkins Branch would also be impacted by the proposed cargo support area, and stormwater management would potentially include open channel flow and stone check dams.

Alternative 4R also included the stockpiling of approximately 2.4 million cubic yards between the Clark Branch and Hawkins Branch wetland areas. Peak flows through this area would be managed by outlet structures on the sediment basin at the base of the stockpile which would serve as a temporary stormwater management facility.

The 1998 EA identified permit requirements and potential mitigation measures. In accordance with Section 404 of the Clean Water Act (CWA) and the Maryland Nontidal Wetlands Protection Act, a Joint Federal and State Permit Application for the Alteration of any Floodplain, Waterway, Tidal or Nontidal Wetland was submitted to the U.S. Army Corps of Engineers (USACE). In accordance with Section 401 of CWA, a Water Quality Certification (WQC) was obtained by MDE. The Airport's existing National Pollutant Discharge Elimination System (NPDES) permit was not expected to be revised based on the proposed Alternative 4R.

The analysis references the 1993 BWI Comprehensive Stormwater Management Plan for measures that can be implemented to control stormwater quantity and enhance overall water quality. As a mitigation measure, the WQC included the condition that the first ½ inch of runoff from new impervious surfaces would be controlled by water quality structures prior to discharge to receiving waters.

Wetlands - The EA analyzed impacts of Alternative 4R on wetlands and streams by drainage area. The analysis states that Alternative 4R would impact 0.2 acres of wetlands and 45 linear feet of stream within the Hawkins Branch and Clark Branch wetland system; 0.9 acres of wetlands and 617 linear feet of stream within the Signal Branch wetlands system; and 0.04 acres of wetlands and 667 linear feet of stream within the Kitten Branch wetland system. A Section 404 Wetlands Permit was obtained from

USACE (97-63850, January 9, 1998) and a wetland mitigation feasibility study was conducted on MAA-owned property west of the Airport.

Groundwater – There is no analysis of impacts to groundwater in the 1998 EA. The EA describes the existing groundwater in Anne Arundel County and around BWI Marshall Airport. The EA notes that BWI is located over the Patapsco Aquifer, which is recharged by surface infiltration of precipitation.

Conclusion: Impacts to water quality within Kitten Branch, Signal Branch, Hawkins Branch and Clark Branch due to construction and operation of Alternative 4R would be minimized through design modification and mitigated through stormwater management systems (quantity and quality controls) approved prior to construction. Impacts to wetlands would be mitigated for on an MAA-owned property west of the Airport.

RE-EVALUATION IMPACT ANALYSIS – PROPOSED ACTION

Wetlands - The Proposed Action includes a much smaller project footprint than what was proposed under the 1998 EA Alternative 4R. The Proposed Action does not include any impacts to wetlands or streams. Therefore, no permits or mitigation would be required.

Surface Water – Since the completion of the 1998 EA, there have been changes to Maryland's stormwater management regulations. The Maryland *Stormwater Management Act of 2007* (amended in 2009) requires environmental site design (ESD) to the maximum extent practicable (MEP). The Act resulted in the development of updated guidance on implementing the new regulations. The *2000 Maryland Stormwater Design Manua*l was revised in May 2009 to reflect the updated regulations. Additionally, MDE published the *Maryland Stormwater Management Guidelines for State & Federal Projects* (April 15, 2010) for further guidance.

Unlike the 1998 EA Alternative 4R which includes impacts to multiple drainage areas, the current Proposed Action is only located within the Kitten Branch drainage area. The project has a footprint of approximately 256,000 square feet (5.9 acres) of impervious surface. The project is located on an existing building pad which has already been graded as part of the construction that occurred following the 1998 EA to facilitate ultimate build out of the site. The project site drains east towards the existing Midfield Cargo Facility ramp area. Runoff enters the closed stormwater drainage system either through an inlet or the existing trench drains, where it continues east to outfall into Pond B7.

In accordance with MDE regulations, stormwater management for new development includes implementing ESD to the MEP to provide water quality and quantity treatment of the new impervious area. The Proposed Action would require treatment of approximately 5.9 acres of impervious surface, and an ESD volume of 52,700 cf (see ***Appendix B: Stormwater Treatment Calculations***).

The proposed ramp expansion area would include a continuation of the trench drain facilities currently located on the ramp area to the east. The proposed trench drains would connect to the closed drainage system, which drains east into Pond B7. Per the MDE approved water quality summary table for Kitten Branch, Pond B7 has excess capacity to treat an additional 8.11 acres of impervious surface due to the SWM site being designed for the ultimate buildout. The combination of new trench drains and excess capacity available in Pond B7 could be utilized to meet stormwater quality and quantity treatment requirements for the proposed ramp expansion.

With the proposed inclusion of the glycol collection system, the new apron would include trench drain, diversion vaults and associated mechanical and control systems to isolate and collect the runoff from deicing operations and store in additional tanks for disposal per MAA requirements.

Groundwater –There would be no impacts to groundwater as a result of the Proposed Action. There are no sole source aquifers in the vicinity of the Airport and the extension of the Midfield Cargo ramp area

would not impact groundwater such that water quality standards set forth by Federal, state, or local agencies would be exceeded or would have the potential to contaminate an aquifer used for public water supply.

Construction

The proposed construction staging area is located adjacent to the proposed expansion, as shown on Figure 2. If uncontrolled, construction activities have the potential to cause erosion and sedimentation that can impact water quality. Short-term construction impacts would be minimized by strict adherence to erosion and sediment control procedures. BMPs would be used to avoid and minimize any potential impacts to the environment during construction and for the control of stormwater for quantity and quality.

***Conclusion*:** There would be no significant impacts to water resources with the Proposed Action, provided that MDE SWM requirements are met through a combination of (1) new trench drain facilities; and (2) excess capacity available downstream in Pond B7.

Table 5.13

Summary of Potential Changes to Water Resources (Wetlands, Surface Waters, Groundwater)

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Re-Evaluation for Proposed Action**		
No significant impact with mitigation.	No significant impact with mitigation.	Y	Use of new and/or existing stormwater facilities to meet updated stormwater requirements, and use of water quality credits.

5.2.12 CUMULATIVE IMPACTS

SUMMARY OF 1998 EA – ALTERNATIVE 4R

The 1998 EA contains a description of the potential cumulative impacts associated with other airfield development projects in the vicinity of the potential cargo development resulting from Alternative 4R. The assessment included review of present, recent past, and reasonably foreseeable actions in the project vicinity. The analysis noted that the other airport projects to be considered cumulatively with the Proposed Action had and would be occurring in previously developed or disturbed areas of BWI Marshall property.

The cumulative impact analysis for each environmental resource concluded that Alternative 4R, when considered with other combined projects, would not contribute to a significant impact to environmental resources.

RE-EVALUATION IMPACT ANALYSIS – PROPOSED ACTION

Notice to Proceed for construction activities associated with the Midfield Cargo Facility Ramp expansion was received in July and construction is expected to be complete in December 2017.

***Conclusion*:** The Proposed Action would only include minor temporary impacts during construction and would not result in any significant impacts to any of the environmental resource categories; therefore, the

Proposed Action, when combined with past, present or reasonably foreseeable future actions, would not result in any significant cumulative impacts.

Table 5.14

Summary of Potential Changes to Cumulative Impacts

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Re-Evaluation for Proposed Action**		
No significant impact.	No significant impact.	N	N/A

6. AGENCY AND PUBLIC INVOLVEMENT

6.1 AGENCY SCOPING LETTERS

Scoping letters with information regarding the Proposed Action were sent to relevant agencies by MAA on April 20, 2017. The scoping information provided a brief background of the project and project information, including the proposed location of the project. The following agencies received scoping information:

- Anne Arundel County Planning and Zoning, Transportation Planning
- Maryland Department of the Environment (MDE), Air Quality Planning Program
- Maryland Department of the Environment, Federal Consistency Coordinator
- Maryland Department of Natural Resources (MDNR), Wildlife and Heritage Division
- Maryland Historical Trust (MHT), Division of Historical and Cultural Programs

6.2 AGENCY SCOPING RESPONSES

Responses to scoping letters were received from the MDE Coastal Consistency Coordinator and the MHT confirming consistency with existing regulations and plans. The other agency responses noted that there were no concerns regarding potential impacts due to the Proposed Action. Agency correspondence is included in *Appendix A: Agency Coordination*.

6.3 PUBLIC INVOLVEMENT

In accordance with FAA Order 1050.1F, re-evaluations should be reviewed internally and may be made public at the discretion of the FAA, however no public notification is required.

7. CONCLUSION

Based on the analysis presented in *Section 5, Impact Analysis*, there are no meaningful differences of impacts to any environmental criteria between the 1998 *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport* and the proposed expansion of the Midfield Cargo Facility Ramp considered within this Re-Evaluation. All impacts and mitigation efforts identified in the 1998 EA that pertain to the Proposed Action have been updated to incorporate new federal, state and local guidance. The FONSI remains valid and a Supplemental EA is not required.

NOTES

[1] Federal Aviation Administration, Order 1050.1F, Section 9-2a(2)(b).

[2] MAA, BWI Master Plan Technical Report, 2011, p. 1-120 through 1-128.

[3] MAA, Monthly Statistical Report Summary for the month of December 2016, http://www.bwiairport.com/files/assets/stats/Dec2016.pdf#zoom=100 (accessed 4/28/17).

[4] FAA, *FAA Aerospace Forecast: FY 2017-2037*.

[5] Alternative 4R was a modification of the EA's "Alternative 4," and was developed following comments received on the Draft EA. Alternative 4R (Proposed Action) relocated the design to have the cargo support facility south of the access road, rather than north of the access road, as with Alternative 4. The layout was not as operationally efficient, but the relocation resulted in fewer stream impacts to Signal Branch and provided a substantial area for a stormwater management infiltration basin.

[6] MAA, *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, May 1998, pp. II-12 through II-14.

[7] MAA, *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, May 1998, pp. II-12 through II-14.

[8] MAA, *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, May 1998, pp. I-15.

[9] MAA, *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, May 1998, p. ES-2.

[10] MAA, Monthly Statistical Report Summary for the month of December 2016, http://www.bwiairport.com/files/assets/stats/Dec2016.pdf#zoom=100 (accessed 4/28/17).

[11] There have been changes in the reporting of cargo tonnage since the 1998 EA was published. For example, the cargo figures were restated several years ago when the MAA made the decision to stop reporting all truck cargo. Also, cargo carriers (e.g., UPS and others) were not required to report cargo tonnage until 2004, therefore the reporting before this period is not comparable to what is reported now.

[13] MAA, *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, May 1998, p. I-15.

[14] MAA, *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, May 1998, p. I-15.

[15] Only a portion of the original buildout proposed in the 1998 EA is proposed.

[16] FAA, *FAA Aerospace Forecast: FY 2017-2037*.

[17] The 2011 Master Plan's projected annual growth rate through 2030 when published was 1.2% annually. Given that this factor has not been formally updated by the MAA at this time, a more recent (2017) national average from the FAA Aerospace Forecast (FY 2017-2037) is referenced.

[18] FAA Order 1050.1F Desk Reference (July 2015), p. 3-1, http://www.faa.gov/about/office_org/headquarters_offices/apl/environ_policy_guidance/policy/faa_nepa_order/desk_ref/media/3-climate.pdf, accessed 9/8/16.

[19] MAA, *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, May 1998, p. IV-48.

[20] FAA, *FAA Aerospace Forecast: FY 2017-2037*.

Appendix A

Agency Coordination

Agency Scoping Letters

Maryland Aviation Administration

Larry Hogan
Governor

Boyd K. Rutherford
Lt. Governor

Pete K. Rahn
Secretary

Ricky D. Smith, Sr.
Executive Director / CEO

April 20, 2017

Mr. Larry Tom
Planning and Zoning Officer
The Office of Planning and Zoning
Anne Arundel County
2664 Riva Road
Annapolis MD 21401

Dear Mr. Tom:

The Maryland Department of Transportation's Maryland Aviation Administration (MAA) proposes to expand the Midfield Cargo Facility Ramp by paving an approximately 800' x 320' area adjacent to the existing ramp at Baltimore/Washington International Thurgood Marshall (BWI Marshall) Airport. The proposed ramp will accommodate up to 7 aircraft depending on the aircraft size. The proposed site location and relation to airport property is illustrated on **Figure 1**.

The ramp expansion was assessed as part of the 1998 *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, however, the full ramp expansion was not implemented within the Federal Aviation Administration's (FAA) three-year timeline for major steps toward implementation after issuance of the Finding of No Significant Impact (FONSI). The proposed ramp expansion represents only a portion of the ultimate buildout originally studied to support air cargo operations in the 1998 EA. The proposed expansion is needed to accommodate operations that were forecast in the 1998 EA and that are now being realized. Because the original limited construction of the ramp is now insufficient, the MAA is completing a Re-Evaluation of the EA to satisfy FAA's procedures for compliance with the National Environmental Policy Act of 1969 (NEPA).

Environmental Analysis

All FAA Order 1050.1F impact categories will be addressed and any potential mitigation measures will be described to avoid creation of significant impact. Each of the environmental impact categories considered in the 1998 EA will be re-evaluated to determine if the data and analysis that led to the previous FONSI are still substantially valid considering the current airport environment and any changes to regulations and requirements. Grading operations for the full development area were conducted as part of the construction that occurred following the 1998 EA and the Study Area is currently mowed/maintained. It is anticipated that the existing stormwater management facility will handle the proposed runoff.

The MAA is soliciting comments from your agency regarding the preparation of the Re-Evaluation. To request further information about the proposed project, please contact me by phone at 410-859-7103 or via e-mail at rbowie@bwiairport.com. Please submit any written comments via mail or email by **May 22, 2017**.

Sincerely,

Robin M. Bowie

Robin M. Bowie, Acting Director
Office of Environmental Services

Enclosures

Maryland Aviation Administration

Larry Hogan
Governor

Boyd K. Rutherford
Lt. Governor

Pete K. Rahn
Secretary

Ricky D. Smith, Sr.
Executive Director / CEO

April 20, 2017

Mr. Brian Hug
Acting Manager, Air Quality Planning Program
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore MD 21230

Dear Mr. Hug:

The Maryland Department of Transportation's Maryland Aviation Administration (MAA) proposes to expand the Midfield Cargo Facility Ramp by paving an approximately 800' x 320' area adjacent to the existing ramp at Baltimore/Washington International Thurgood Marshall (BWI Marshall) Airport. The proposed ramp will accommodate up to 7 aircraft depending on the aircraft size. The proposed site location and relation to airport property is illustrated on **Figure 1**.

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Sincerely,

Robin M. Bowie

Robin M. Bowie, Acting Director
Office of Environmental Services

Enclosures

Maryland Aviation Administration

Larry Hogan
Governor

Boyd K. Rutherford
Lt. Governor

Pete K. Rahn
Secretary

Ricky D. Smith, Sr.
Executive Director / CEO

April 20, 2017

Ms. Lori Byrne
Environmental Review Specialist, Wildlife and Heritage Services
Maryland Department of Natural Resources
580 Taylor Avenue, E-1
Annapolis MD 21401

Dear Ms. Byrne:

The Maryland Department of Transportation's Maryland Aviation Administration (MAA) proposes to expand the Midfield Cargo Facility Ramp by paving an approximately 800' x 320' area adjacent to the existing ramp at Baltimore/Washington International Thurgood Marshall (BWI Marshall) Airport. The proposed ramp will accommodate up to 7 aircraft depending on the aircraft size. The proposed site location and relation to airport property is illustrated on **Figure 1**.

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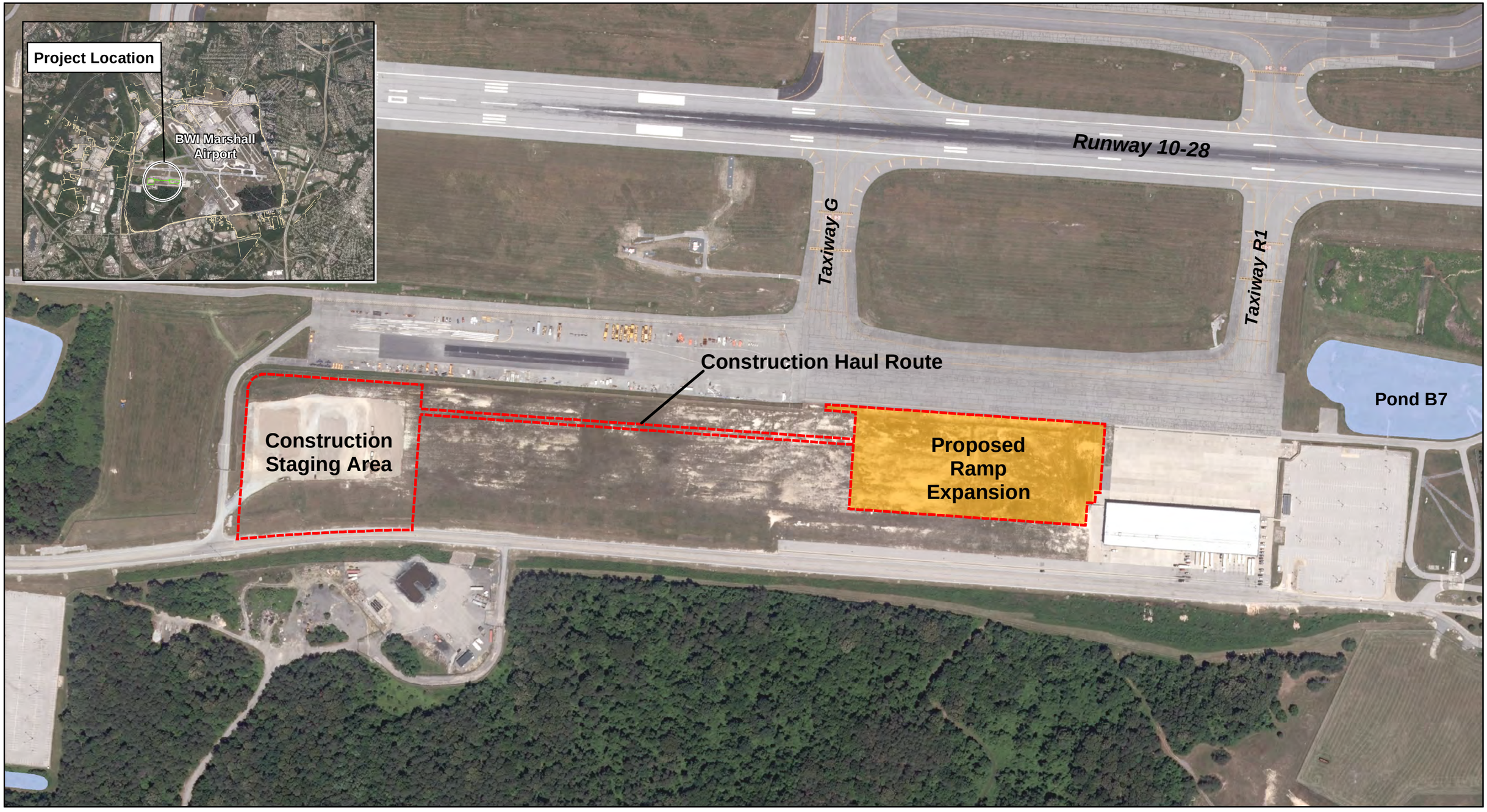
Sincerely,

Robin M. Bowie

Robin M. Bowie, Acting Director
Office of Environmental Services

Enclosures



LEGEND

- Study Area
- Existing Stormwater Management Pond
- Proposed Pavement Improvements

Proposed Action
Figure 1

N

0 150 300 600 Feet

Source: Aerial - MAA (2016), ADCI

Subject: Coastal Consistency Request - Re-Eval for Expansion of Midfield Cargo Facility Ramp at BWI

On Wed, Apr 19, 2017 at 2:15 PM, Robin Bowie <rbowie@bwiairport.com> wrote:

Hi, Elder,

Hope you are well!

The MAA is planning to expand the Midfield Cargo Facility ramp by paving an approximately 800' x 320' area adjacent to the existing ramp at BWI Marshall Airport. The expansion was assessed as part of the 1998 *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*. However, the full ramp expansion was not implemented within the FAA's three-year timeline for major steps toward implementation after issuance of the FONSI, therefore MAA is completing a Re-Evaluation of the EA to satisfy FAA's procedures for compliance with the National Environmental Policy Act of 1969 (NEPA). The proposed site location, study area (including haul route and staging area) and relation to airport property is illustrated on **Figure 1**.

MAA is seeking confirmation that expanding the Midfield Cargo Facility ramp remains consistent with the Maryland Coastal Zone Management Program, as required by Section 307 of the CZMA. This project will not affect any wetlands, waterways, surface waters, or forests. Grading operations for the full development area were conducted as part of the construction that occurred following the 1998 EA and the study area is mowed/maintained. The additional ramp pavement will be constructed in Portland Cement Concrete (PCC) and incorporate a continuation of the original trench drain facilities to capture stormwater runoff. It is anticipated that the existing stormwater management facility (Pond B7, as shown on Figure 1) will handle the proposed runoff as it was built to accommodate the entire project development at the time. Water quality and quantity will be addressed during design to meet the MDE's Stormwater Management requirements for environmental site design to the maximum extent practicable.

Let me know if you need any additional information. Thank you in advance!

Ms. Robin M. Bowie

Acting Director, Office of Environmental Services

Maryland Department of Transportation Maryland Aviation Administration

410-859-7103 (office)

410-859-7082 (fax)

rbowie@bwiairport.com

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Subject: Request for MHT Concurrence - Re-Eval for Expansion of Midfield Cargo Facility Ramp at BWI

On Wed, Apr 19, 2017 at 2:12 PM, Robin Bowie <rbowie@bwiairport.com> wrote:

Hi, Beth,

Hope you are well and things are going well for you!

The MAA is planning to expand the Midfield Cargo Facility ramp by paving an approximately 800' x 320' area adjacent to the existing ramp at BWI Marshall Airport. The expansion was assessed as part of the 1998 *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*. However, the full ramp expansion was not implemented within the FAA's three-year timeline for major steps toward implementation after issuance of the FONSI, therefore MAA is completing a Re-Evaluation of the EA to satisfy FAA's procedures for compliance with the National Environmental Policy Act of 1969 (NEPA). The proposed site location, study area (including haul route and staging area) and relation to airport property is illustrated on **Figure 1**.

The MAA is seeking concurrence from the Maryland Historical Trust (MHT) that the areas of these proposed projects fall within areas designated in the HPP as previously evaluated and thus no additional study is required. This request is based on the Historic Preservation Plan (HPP) that MAA prepared in 1996 in coordination with MHT. Additionally, this area is screened from the Benson Hammond House; therefore there would be no visual impacts as a result of the proposed projects. The proposed project is not changing existing aircraft operations or procedures, therefore there would be no changes to the noise environment in the vicinity of any historic properties.

Let me know if you need any additional information! Thank you in advance!

Ms. Robin M. Bowie

Acting Director, Office of Environmental Services

Maryland Department of Transportation Maryland Aviation Administration

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410-859-7082 (fax)

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Agency Scoping Responses

Subject: RE: Coastal Consistency Request - Re-Eval for Expansion of Midfield Cargo Facility Ramp at BWI

From: Elder Ghigiarelli -MDE- [mailto:elder.ghigiarelli@maryland.gov]
Sent: Thursday, April 20, 2017 1:55 PM
To: Robin Bowie <rbowie@bwiairport.com>
Subject: Re: Coastal Consistency Request - Re-Eval for Expansion of Midfield Cargo Facility Ramp at BWI

Robin,

I am responding to your request for a Federal Consistency determination, pursuant to Section 307 of the Federal Coastal Zone Management Act of 1972, as amended (CZMA), for the proposed expansion of the Midfield Cargo Facility Ramp by paving an approximately 800' X 320' area adjacent to the existing ramp at BWI Marshall Airport. As noted in your email, this expansion was assessed in the 1998 Environmental Assessment for the Proposed Expansion of Air Cargo Facilities at BWI, However, since the project was not completed within the 3-year time frame after the issuance of the FONSI, the project must be reevaluated to satisfy NEPA requirements.

The information provided indicates that the proposed expansion will not result in any impacts to sensitive resources including wetlands, waterways, or forests. The project site is currently mowed and maintained. Based on this information, including our previous review of the 1998 EA, the proposed expansion of the Midfield Cargo Facility Ramp is consistent with the Maryland Coastal Zone Management Program, as required by Section 307 of the CZMA. Please note that this determination does not obviate the responsibility to obtain any other State approvals that are necessary for the project.

If you have any questions, please contact me.

Elder

Elder Ghigiarelli, Jr.
Deputy Program Administrator
Maryland Federal Consistency Coordinator
Wetlands and Waterways Program
Maryland Department of the Environment
Phone: (410) 537-3763
Fax: (410) 537-3751

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Let me know if you need any additional information. Thank you in advance!

Ms. Robin M. Bowie

Acting Director, Office of Environmental Services

Maryland Department of Transportation Maryland Aviation Administration

410-859-7103 (office)

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Subject: RE: Request for MHT Concurrence - Re-Eval for Expansion of Midfield Cargo Facility Ramp at BWI

From: Beth Cole - MHT [mailto:beth.cole@maryland.gov]
Sent: Thursday, April 20, 2017 10:07 AM
To: Robin Bowie <rbowie@bwiairport.com>
Subject: Re: Request for MHT Concurrence - Re-Eval for Expansion of Midfield Cargo Facility Ramp at BWI

Robin,

The Maryland Historical Trust concurs with MAA's assessment and no further investigations are warranted. The proposed undertaking will have no effect on historic and archeological resources. Thank you for providing us this opportunity to comment. Have a good day,

Beth Cole

***Please note my new phone number. All MHT staff phone numbers will change in January 2017!**

Beth Cole
Administrator, Project Review and Compliance
Maryland Historical Trust
Maryland Department of Planning
100 Community Place
Crownsville, MD 21032
beth.cole@maryland.gov / **410-697-9541**

Please take our customer service survey.
MHT.Maryland.gov

On Wed, Apr 19, 2017 at 2:12 PM, Robin Bowie <rbowie@bwiairport.com> wrote:

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Evaluation of the EA to satisfy FAA's procedures for compliance with the National Environmental Policy Act of 1969 (NEPA). The proposed site location, study area (including haul route and staging area) and relation to airport property is illustrated on **Figure 1**.

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Let me know if you need any additional information! Thank you in advance!

Ms. Robin M. Bowie

Acting Director, Office of Environmental Services

Maryland Department of Transportation Maryland Aviation Administration

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MARYLAND
DEPARTMENT OF
NATURAL RESOURCES

Larry Hogan, Governor
Boyd Rutherford, Lt. Governor
Mark Belton, Secretary
Joanne Throwe, Deputy Secretary

RECEIVED
MAY 25 2017
OFFICE OF
ENVIRONMENTAL SERVICES

May 9, 2017

Ms. Robin M. Bowie
Maryland Aviation Administration
P.O. Box 8766
BWI Airport, Maryland 21240-0766

RE: Environmental Review for Proposed Expansion of Midfield Cargo Facility Ramp at Baltimore/Washington International Thurgood Marshall Airport, Anne Arundel County, Maryland.

Dear Ms. Bowie:

The Wildlife and Heritage Service has determined that there are no official State or Federal records for listed plant or animal species within the delineated area shown on the map provided. As a result, we have no specific concerns regarding potential impacts or recommendations for protection measures at this time. Please let us know however if the limits of proposed disturbance or overall site boundaries change and we will provide you with an updated evaluation.

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely,

Lori A. Byrne

Lori A. Byrne,
Environmental Review Coordinator
Wildlife and Heritage Service
MD Dept. of Natural Resources

ER# 2017.0682.aa

US Fish and Wildlife Service IPaC

and Official Species List

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Chesapeake Bay Ecological Services Field Office
177 Admiral Cochrane Drive
Annapolis, MD 21401-7307
Phone: (410) 573-4599 Fax: (410) 266-9127
http://www.fws.gov/chesapeakebay/
http://www.fws.gov/chesapeakebay/endsppweb/ProjectReview/Index.html

In Reply Refer To: April 24, 2017
Consultation Code: 05E2CB00-2017-SLI-1154
Event Code: 05E2CB00-2017-E-02205
Project Name: Re-Evaluation for Midfield Cargo Facility Ramp Expansion at BWI Marshall Airport

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. This species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Wetlands

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Chesapeake Bay Ecological Services Field Office
177 Admiral Cochrane Drive
Annapolis, MD 21401-7307
(410) 573-4599

Project Summary

Consultation Code: 05E2CB00-2017-SLI-1154

Event Code: 05E2CB00-2017-E-02205

Project Name: Re-Evaluation for Midfield Cargo Facility Ramp Expansion at BWI Marshall Airport

Project Type: TRANSPORTATION

Project Description: The Maryland Aviation Administration is conducting a Re-Evaluation of a 1998 EA to expand the Midfield Cargo Facility ramp area by paving an approximately 800’ x 320’ area adjacent to the existing ramp at BWI Marshall Airport.

Project Location:

Approximate location of the project can be viewed in Google Maps:
https://www.google.com/maps/place/39.17131537782752N76.68374167531462W

Counties: Anne Arundel, MD

Endangered Species Act Species

There is a total of 0 threatened, endangered, or candidate species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area. Please contact the designated FWS office if you have questions.

Critical habitats

There are no critical habitats within your project area.

USFWS National Wildlife Refuges And Fish Hatcheries

Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuges or fish hatcheries within your project area.

Wetlands

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

There are no wetlands within your project area.

Appendix B

Stormwater Calculations

BWI
ESD Computations for **Midfield Cargo Ramp Area**

Total LOD =	256,000	s.f. =	5.88	ac.	

Existing impervious area in LOD=	0	s.f.	0.00	ac.
%Existing impervious area in LOD=	33%	**USE NEW DEVELOPMENT SINCE <40%**		

Pavement Removal =	0	s.f =	0.00	ac.
New Pavement =	256,000	s.f =	5.88	ac.
Net (ESD Required)=	256,000	s.f =	5.88	ac.
Redevelopment Area Requiring ESD = (50% of existing impervious area in LOD)	0	s.f =	**0.00**	**ac.**
New Development for ESD = (Net increase/decrease in impervious area)	256,000	s.f =	5.88	ac.
	IART	=	5.88	ac.

B. Compute ESDv2 for New Development

New Development =	256,000	s.f. =	5.88	ac.

Determine ESD Implementation Goals

1.1 Determine Pre-Developed Conditions

Soil Conditions

HSG	RCN	Area (s.f.)	Area (ac.)	Percent
A	38	256,000	5.88	0.00%
B	55	0	0.00	0.00%
C	70	0	0.00	10.00%
D	77	0	0.00	90.00%
Total		256,000	5.88	

Assume 100% A soils

Determine composite RCN for "woods in good condition"

$$RCN = \frac{(38)(5.88) + (55)(0) + (70)(0) + (77)(0)}{5.88} = 38$$ <-- Target RCN

1.2 Determine Target Pe using Table 5.3

Determined Proposed Imperviousness (%I)

Total Impervious =	256,000	s.f =	5.88	ac.
Impervious in A soils =	256,000	=	100.00%	of total impervious in A soils
Impervious in B soils =	0	=	0.00%	of total impervious in B soils
Impervious in C soils =	0	=	0.00%	of total impervious in C soils
Impervious in D soils =	0	=	0.00%	of total impervious in D soils
			100%	
Total LOD =	256,000	s.f. =	5.88	ac.

%I = 100.00%

Determine Pe from Table 5.3

Using %I = 100% and A soils, target Pe =	2.6	inches
Using %I = 0% and B soils, target Pe =	0	inches
Using %I = 0% and C soils, target Pe =	0	inches
Using %I = 0% and D soils, target Pe =	0	inches

$$Pe = \frac{(2.6)(5.88) + (0)(0) + (0)(0) + (0)(0)}{5.88}$$

Target Pe = 2.60 inches

1.3 Compute ESDv2

Qe2 = Pe x Rv
Rv = 0.05 + .009 x %I
Rv = 0.05 + .009 x 100.00%
Rv = 0.95000
Qe2 = 2.6 x 0.95
Qe2 = 2.47

$$\textbf{ESDv2} = \frac{(Pe)(Rv)(A)}{12} = \frac{(2.6)(0.95)(256000)}{12}$$

ESDv2 = 52,693 c.f.
ESDv2 = 1.21 ac-ft

C. Compute ESDv Total
ESDv Total = ESDv1 + ESDv2
ESDV Total = 1667.3 c.f. + 7151.5 c.f. = **52,693 c.f.**
ESDV Total = **1.21 ac-ft**

BWI

ESD Computations for Midfield Cargo Ramp Area

Table 5.3 Rainfall Targets/Runoff Curve Number Reductions used for ESD

Hydrologic Soil Group A										
%I	RCN*	P_E = 1"	1.2"	1.4"	1.6"	1.8"	2.0"	2.2"	2.4"	2.6"
0%	40									
5%	43									
10%	46									
15%	48	38								
20%	51	40	38	38						
25%	54	41	40	39						
30%	57	42	41	39	38					
35%	60	44	42	40	39					
40%	61	44	42	40	39					
45%	66	48	46	41	40					
50%	69	51	48	42	41	38				
55%	72	54	50	42	41	39				
60%	74	57	52	44	42	40	38			
65%	77	61	55	47	44	42	40			
70%	80	66	61	55	50	45	40			
75%	84	71	67	62	56	48	40	38		
80%	86	73	70	65	60	52	44	40		
85%	89	77	74	70	65	58	49	42	38	
90%	92	81	78	74	70	65	58	48	42	38
95%	95	85	82	78	75	70	65	57	50	39
100%	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	40

Hydrologic Soil Group B										
%I	RCN*	P_E = 1"	1.2"	1.4"	1.6"	1.8"	2.0"	2.2"	2.4"	2.6"
0%	61									
5%	63									
10%	65									
15%	67	55								
20%	68	60	55	55						
25%	70	64	61	58						
30%	72	65	62	59	55					
35%	74	66	63	60	56					
40%	75	66	63	60	56					
45%	78	68	66	62	58					
50%	80	70	67	64	60					
55%	81	71	68	65	61	55				
60%	83	73	70	67	63	58				
65%	85	75	72	69	65	60	55			
70%	87	77	74	71	67	62	57			
75%	89	79	76	73	69	65	59			
80%	91	81	78	75	71	66	61			
85%	92	82	79	76	72	67	62	55		
90%	94	84	81	78	74	70	65	59	55	
95%	96	87	84	81	77	73	69	63	57	
100%	98	89	86	83	80	76	72	66	59	55

Cp_v Addressed (RCN = Woods in Good Condition)

RCN Applied to Cp_v Calculations

Table 5.3 Runoff Curve Number Reductions used for Environmental Site Design (continued)

Hydrologic Soil Group C										
%I	RCN*	P_E = 1"	1.2"	1.4"	1.6"	1.8"	2.0"	2.2"	2.4"	2.6"
0%	74									
5%	75									
10%	76									
15%	78									
20%	79	70								
25%	80	72	70	70						
30%	81	73	72	71						
35%	82	74	73	72	70					
40%	84	77	75	73	71					
45%	85	78	76	74	71					
50%	86	78	76	74	71					
55%	86	78	76	74	71	70				
60%	88	80	78	76	73	71				
65%	90	82	80	77	75	72				
70%	91	82	80	78	75	72				
75%	92	83	81	79	75	72				
80%	93	84	82	79	76	72				
85%	94	85	82	79	76	72				
90%	95	86	83	80	77	73	70			
95%	97	88	85	82	79	75	71			
100%	98	89	86	83	80	76	72	70		

Hydrologic Soil Group D										
%I	RCN*	P_E = 1"	1.2"	1.4"	1.6"	1.8"	2.0"	2.2"	2.4"	2.6"
0%	80									
5%	81									
10%	82									
15%	83									
20%	84	77								
25%	85	78								
30%	85	78	77	77						
35%	86	79	78	78						
40%	87	82	81	79	77					
45%	88	82	81	79	78					
50%	89	83	82	80	78					
55%	90	84	82	80	78					
60%	91	85	83	81	78					
65%	92	85	83	81	78					
70%	93	86	84	81	78					
75%	94	86	84	81	78					
80%	94	86	84	82	79					
85%	95	86	84	82	79					
90%	96	87	84	82	79	77				
95%	97	88	85	82	80	78				
100%	98	89	86	83	80	78	77			

Cp_v Addressed (RCN = Woods in Good Condition)

RCN Applied to Cp_v Calculations

Attachment 6:

2018 Written Re-Evaluation and Record of Decision (WR/ROD)

of the 1998 EA for the Expansion of the Midfield Cargo Facility Ramp

at BWI Marshall Airport, and 2018 Midfield Cargo Technical Report.

WR/ROD Signed October 23, 2018

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
WRITTEN RE-EVALUATION/RECORD OF DECISION

Baltimore/Washington International Thurgood Marshall Airport
Linthicum, Anne Arundel County, Maryland
Midfield Cargo Facility Improvements

INTRODUCTION

The Maryland Aviation Administration (MAA) has requested that the Federal Aviation Administration (FAA) approve improvements to the existing Midfield Cargo Facility (2018 Proposed Action) at Baltimore/Washington International Thurgood Marshall Airport (BWI). Most of the improvements were initially proposed in 1998 and were analyzed in the FAA's Environmental Assessment (EA) and Finding of No Significant Impact (FONSI) approving Midfield Cargo Facility Improvements (1998 Proposed Action), entitled *Final Environmental Assessment for the Proposed Expansion of Air Cargo Facilities at BWI Airport* (1998 EA). An initial portion of the 1998 Proposed Action was constructed following the approval of the 1998 EA. Additionally, a six-acre apron expansion was constructed in 2017 following a Written Re-Evaluation of the 1998 EA issued on June 22, 2017, entitled *The Expansion of the Midfield Cargo Facility Ramp at Baltimore/Washington International Thurgood Marshall Airport*.

The FAA has reviewed the *Technical Report: Proposed Midfield Cargo Facility Improvements* (Technical Report) dated October 2018, which analyzed and compared potential impacts associated with the Proposed Improvements, as compared to the potential impacts associated with the Air Cargo Facility Improvements approved in the 1998 EA. MAA's proposal was first submitted to FAA in May 2018. FAA reviewed and provided comments on multiple versions of the Technical Report that was finalized in October 2018. This Written Re-Evaluation and Record of Decision (WR/ROD) of the 1998 EA was prepared to determine if the findings of the 1998 EA remain valid and applicable to the 2018 Proposed Action. This WR/ROD identifies FAA decisions and Federal Actions associated with the 2018 Proposed Action as consistent with the individual and cumulative impacts discussed in the 1998 EA and the 2017 Re-Evaluation. The 1998 EA, 2017 Re-Evaluation, and 2018 Technical Report are all hereby incorporated by reference, and are further described below.

BACKGROUND

The FAA issued a FONSI in 1998, which approved a number of projects as part of the full buildout of the Midfield Cargo Facility. The environmental impacts of the projects were analyzed in the 1998 EA, which included public involvement and an opportunity for public review and comment. The design concept approved in the FONSI proposed to construct new all-cargo facilities in a new Midfield area of the Airport. The Proposed Action included construction of the Midfield Cargo Facility, as well as a new connecting and partial parallel taxiway to the north of Runway 10/28 for aircraft to access the existing runway system.

The 1998 Proposed Action included the following improvements:

- Construct new all-cargo facilities in the new midfield area, south of Runway 10/28 and Runway 4/22;

- Construct cargo buildings G, H, I and J (220,000 SF);
- Construct connecting and parallel taxiways;
- Construct access road;
- Construct cargo support area; and,
- Construct fuel farm.

Although it was originally anticipated that development of the proposed facilities would occur over a ten-year period, following the 1998 EA/FONSI, the improvements were only partially implemented. The first cargo building (Building G), along with approximately six acres of ramp area and four acres of air cargo supported facility pavement (vehicle parking) were constructed, and the full development area was graded. Access road improvements were also implemented, along with the majority of the associated connecting and partial parallel taxiways.

In August 2017, the FAA approved a Written Re-Evaluation of the 1998 EA for a six-acre apron expansion later that same year. However, full buildout of the 1998 Proposed Action has not been completed at this time. The future cargo growth that was expected in the 1998 EA is now being realized. To accommodate the growing cargo operations and associated activities, the remainder of the proposed Midfield Cargo Facility Improvements approved in 1998, with small refinements and variations, are now needed.

The Technical Report identifies the limited changes to the Affected Environment that have occurred since the 1998 EA. The Technical Report also analyzes and compares the potential impacts associated with the 2018 Proposed Action to the 1998 Proposed Action.

FAA WRITTEN RE-EVALUATIONS

To ensure full compliance with the National Environmental Policy Act (NEPA), where there are proposed changes to the approved projects, or when implementation of the action is delayed, the FAA evaluates the potential change in environmental impacts, in order to determine if a supplemental Environmental Assessment is required.

FAA Orders 1050.1F and 5050.4B provide guidance as to the circumstances under which it is necessary to prepare a Written Re-Evaluation and determine whether to supplement an EA. FAA Order 1050.1F, paragraph 9-2 states that where there are changes in the proposed action, or new information relevant to environmental concerns, the FAA may prepare a written re-evaluation that will either conclude the contents and findings of previously prepared environmental documents remain valid or that significant changes require the preparation of a supplement or new EA.

FAA Order 1050.1F, paragraph 9-2(c) states "A new or supplemental EA or EIS need not be prepared if a written re-evaluation indicates that:

> (1) The proposed action conforms to plans or projects for which a prior EA and FONSI have been issued or a prior EIS has been filed and there are no substantial changes in the action that are relevant to environmental concerns;

(2) Data and analyses contained in the previous EA and FONSI or EIS are still substantially valid and there are no significant new circumstances or information relevant to environmental concerns and bearing on the proposed action or its impacts; and

(3) Pertinent conditions and requirements of the prior approval have been, or will be, met in the current action."

Per FAA Order 5050.4B, paragraph 1402 (b): A supplement to the Final EA for a project is required if:

"(1) The airport sponsor or FAA makes substantial changes in the proposed action that could affect the action's environmental effects; or

(2) Significant new changes, circumstances or information relevant to the proposed action, its affected environment, or its environmental impacts becomes available."

FAA Order 1050.1F does not require that Written Re-Evaluations be released for public review and comment. Consistent with this approach, prior public notification was not provided for the 2017 Written Re-Evaluation of the 1998 EA. Rather, as described in Section 9-2(d) of the Order, Re-Evaluations "should be reviewed internally and may be made public at the discretion of the [FAA]." Here, MAA agrees that prior public notification is not required, but has committed to make this Re-Evaluation public after it is approved by the FAA. MAA also committed to revise the cumulative impacts section of its Draft Environmental Assessment for the Proposed Improvements 2016-2020 at Baltimore/Washington International Airport to account for the cargo improvements discussed herein, and will release the revised draft for additional public comment.

SUMMARY OF THE PROPOSED IMPROVEMENTS

The 2018 Proposed Action is comprised of improvements originally contemplated in the 1998 EA with some variations and refinements. The variations and refinements from the 1998 Proposed Action are disclosed in Table 1.1 of the Technical Report and the impacts to environmental resources categories are discussed in Section 4 of the Technical Report. The 2018 Proposed Action is described below and includes the facilities required to accommodate expected growth in cargo activity including additional aircraft parking apron, landside facilities, and cargo buildings.

DESCRIPTION OF THE PROPOSED IMPROVEMENTS

As noted above, the 2018 Proposed Action is comprised of the 1998 Proposed Action with some variations and refinements.

- Construct approximately 11.0 acres of apron pavement, including 0.6 acres of dedicated truck staging;
- Construct approximately 7.6 acres of truck parking/staging area pavement;
- Construct approximately 9.2 acres of vehicular parking space (5.4 acres) and vehicular pavement (3.8 acres) associated with the proposed building;
- Construct an approximately 200,000 SF warehouse/cargo processing building;

- Construct three (3) 10,000-barrel (1 barrel = 42 US gallons) Jet-A fuel tanks (49' diameter x 30' tall) to store additional volume as well as minor mechanical improvements to accommodate additional fuel storage needs for the midfield cargo facility;
- Construct a taxiway connection to Runway 10 (approximately 2.8 acres of pavement);
- Rehabilitate the existing taxilane and two taxiway connectors in the area north of the proposed new apron pavement up to the Taxiway G and Taxiway R1 hold lines (approx. 21.1 acres);
- Construct storm drain pipes to connect into the existing storm drain system draining to Pond B6; and
- Provide associated site infrastructure such as security fencing and area lighting.

Of these development actions, construction of 7.6 acres of additional truck parking/staging area pavement, construction of 9.2 acres of vehicular parking space and pavement, and construction of three Jet-A fuel tanks were not specifically considered in the 1998 Proposed Action and EA. Taken together, the 2018 Proposed Action proposes approximately 35.3 acres of impervious surface. The 2018 Proposed Action impervious area is within the 1998 EA limit of disturbance, but includes approximately 7.4 acres of impervious surface not considered in the 1998 EA.

PROPOSED AGENCY ACTIONS

The FAA actions involved in the implementation of the 2018 Proposed Action include the following:

a. Unconditional Approval of a revised ALP at BWI, pursuant to 49 U.S.C. §40103(b) and §47107(a)(16) to depict the 2018 Proposed Action as described in the Technical Report; and determination and approval of the effects of this project upon the safe and efficient utilization of navigable airspace pursuant to 14 CFR Parts 77 and 157 and 49 U.S.C. §44718;

b. Environmental determinations concerning potential funding through the Federal grant-in-aid program authorized by the Airport and Airway Improvement Act of 1982, as amended (recodified at 49 U.S.C. §47107) and/or approval of an application to use Passenger Facility Charges (PFCs) under 49 U.S.C. §40117 (neither the 1998 FONSI nor this WR/ROD determines eligibility or availability of potential funds);

SUMMARY OF CHANGES TO ENVIRONMENTAL IMPACTS AND MITIGATION

This section describes the affected environment and anticipated impacts associated with the 2018 Proposed Action.

Affected Environment

The 1998 EA described the existing environment and conditions. Several changes to the airfield and terminal area have occurred since the 1998 EA, including the initial development of the Midfield Cargo Facilities. Developments include the parallel taxiway north of Runway 10/28, grading of the full Midfield Cargo Facility, construction of apron and a hangar. The 2018 Proposed Action proposes 35.3 acres of impervious surface within the 1998 Limit of Disturbance, of which 7.4 acres of impervious surface are newly added to the 1998 EA impervious surface footprint. The land uses for the Airport and surrounding area remains the

same. The environmental setting remains similar since the 1998 EA. The No Action and Proposed Action noise exposure contours at the Airport have changed between the 1998 EA and the 2018 Technical Report. However, as discussed in Section 4.4.9, the change is unrelated to the Midfield Cargo area. Rather, it is due to runway use changes that have occurred at the Airport in response to changes in fleet mix, air carriers, terminal use, and other variables.

Environmental Consequences of the Proposed New Projects

The potential impacts associated with the 2018 Proposed Action are presented in Section 4.4 of the attached Technical Report. Impacts associated with the 2018 Proposed Action are similar in nature as those impacts associated with 1998 Proposed Action. Accordingly, impacts to all resources will remain substantially the same as those presented in the 1998 EA and FONSI.

Impacts resulting from implementation of the 2018 Proposed Action, when compared to the implementation of the 1998 Proposed Action, may result in small increases in impacts to air quality, noise, water resources and construction related impacts, however, this incremental increase is not significant and does not alter the findings and conclusions of the 1998 EA.

As such, the updated information in this WR/ROD does not present a substantially different picture of the overall Midfield Cargo Facility Improvements, including the 2018 Proposed Action or their impacts, compared to those presented in the 1998 EA and FONSI. The findings and determinations made based on those analyses remain valid when applied to the 2018 Proposed Action.

MITIGATION MEASURES

As discussed above, the 2018 Proposed Action will have similar impacts to those described for the 1998 Proposed Action. As such, no new mitigation measures are proposed and the mitigation measures identified in the 1998 EA and FONSI still apply.

CONCLUSION

The FAA reviewed and analyzed the October 2018 *Technical Report: Proposed Midfield Cargo Facility Improvements* (Technical Report), that analyzed the potential impacts associated with the 2018 Proposed Action as compared to the potential impacts of the Midfield Cargo Facility Improvements approved in the 1998 EA/FONSI.

Based on FAA Order 1050.1F, paragraph 9-2(c), the FAA concludes that a new or supplemental EA need not be prepared; this WR/ROD determines that:

> (1) The proposed action conforms to plans or projects for which a prior EA and FONSI have been issued and there are no substantial changes in the action that are relevant to environmental concerns;
>
> (2) Data and analyses contained in the previous EA and FONSI are still substantially valid and there are no significant new circumstances or information relevant to environmental concerns and bearing on the proposed action or its impacts; and

(3) Pertinent conditions and requirements of the prior approval have been, or will be, met in the current action.

Based on FAA Order 5050.4B, paragraph 1402 b., FAA concludes that a supplement to the EA for this project is not required since the airport sponsor did not make substantial changes to the proposed action that could affect the action's environmental effects and there are no significant new changes, circumstances or information relevant to the proposed action, its affected environment, or its environmental impacts.

Therefore, as discussed above and in accordance with FAA Order 1050.1F, *Policies and Procedures for Assessing Environmental Impacts*, and FAA Order 5050.4B, *NEPA Implementing Instructions for Airport Actions*, preparation of a new or Supplemental EA is not required.

FEDERAL AGENCY FINDINGS

The 1998 FONSI determined that the proposed Federal action is consistent with existing national environmental policies and objectives as set forth in Section 101 (a) of the National Environmental Policy Act of 1969 (NEPA) and that the action will not significantly affect the quality of the human environment or otherwise include any condition requiring consultation pursuant to Section 102 (2) (c) of NEPA.

As this WR/ROD for the 2018 Proposed Action demonstrates, there are no substantial changes relevant to environmental concerns to the project that was the subject of the 1998 EA. Additionally, the Technical Report shows that the 2018 Proposed Action does not result in any significant new circumstances or information relevant to environmental concerns.

DECISION AND ORDER

This WR/ROD was prepared pursuant to FAA Orders 1050.1F, *Environmental Impacts: Policies and Procedures*, and 5050.4B, *National Environmental Policy Act Implementing Instructions for Airport Actions*, Paragraph 1401. This WR/ROD validates the FAA's 1998 EA and FONSI with regard to the Proposed Expansion of Air Cargo Facilities at BWI. The FAA has independently evaluated the information contained in the 1998 EA and FONSI, 2017 Re-Evaluation, and October 2018 Technical Report and takes full responsibility for the scope and content that addresses the FAA actions.

I have carefully and thoroughly considered the facts contained in the 1998 EA and FONSI, the 2017 Re-Evaluation, the October 2018 Technical Report, and this Written Re-evaluation of the 1998 EA and FONSI. Based on that information, I find the proposed Federal Actions are consistent with existing national environmental policies and objectives of Section 101(a) of the *National Environmental Policy Act of 1969* (NEPA). I also find the proposed Federal Actions with the required mitigation as presented in the 1998 EA FONSI, the 2017 Re-Evaluation, and the October 2018 Technical Report will not significantly affect the quality of the human environment or include any condition requiring any consultation pursuant to Section 102(2)(C) of NEPA.

Accordingly, pursuant to the authority delegated to me by the Administrator of the FAA, I find that the actions summarized in this WR/ROD are reasonably supported and approved. I hereby

direct that action be taken together with the necessary related and collateral actions, to carry out the agency actions noted above. Specifically:

a. Unconditional Approval of a revised ALP, pursuant to 49 U.S.C. §40103(b) and §47107(a)(16) to include the three Proposed New Projects as described in the Technical Report; and determination and approval of the effects of this project upon the safe and efficient utilization of navigable airspace pursuant to 14 CFR Parts 77 and 157 and 49 U.S.C. §44718;

b. Determination concerning funding through the Federal grant-in-aid program authorized by the Airport and Airway Improvement Act of 1982, as amended (recodified at 49 U.S.C. §47107) and/or approval of an application to use Passenger Facility Charges (PFCs) under 49 U.S.C. §40117 (neither the May 2017 FONSI/ROD nor this WR/ROD determines eligibility or availability of potential funds).

APPROVED: _____ 10/23/18

Steven M. Urlass
Airports Division Manager
Federal Aviation Administration
Eastern Region

Date

DISAPPROVED: _____ _____

Steven M. Urlass
Airports Division Manager
Federal Aviation Administration
Eastern Region

Date

RIGHT OF APPEAL

This Written Re-evaluation/Record of Decision (WR/ROD) presents the Federal Aviation Administration's findings and final decision and approvals for the actions identified, including those taken under the provisions of Title 49 of the United States Code, Subtitle VII, Parts A and B.

Any party having a substantial interest may appeal this order to the United States Court of Appeals for the District of Columbia Circuit or in the court of appeals of the United States for the circuit in which the person resides or has its principal place of business, upon petition filed within 60 days after entry of this order in accordance with 49 U.S.C. §46110.

Any party seeking to stay the implementation of this ROD must file an application with the FAA prior to seeking judicial relief, as provided in rule 18(a) of the Federal Rules of Appellate Procedure.

Technical Report:

Proposed Midfield Cargo Facility Improvements

Baltimore/Washington International Thurgood Marshall Airport

Prepared for
U.S. Department of Transportation
Federal Aviation Administration

Sponsored by
Maryland Department of Transportation
Maryland Aviation Administration

October 2018

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TABLE OF CONTENTS

1. Introduction and Background 1
1.1 Background 1
1.2 1998 EA Proposed Action 2
1.3 Midfield Cargo Facility Improvements (2018 Proposed Action) 3
2. Purpose and Need 5
3. Alternatives 6
4. Affected Environment and Environmental Consequences 7
4.1 Environmental Setting 7
4.2 Summary of Changes to Regulatory Requirements 8
4.3 Environmental Resources Not Affected by the Proposed Action 11
4.4 Potentially Affected Environmental Resource Categories 11
4.4.1 Air Quality 16
4.4.2 Biological Resources (including fish, wildlife and plants) 20
4.4.3 Climate 21
4.4.4 Coastal Resources 22
4.4.5 Hazardous Materials, Solid Waste and Pollution Prevention 23
4.4.6 Historical, Architectural, Archeological, and Cultural Resources 25
4.4.7 Land Use 26
4.4.8 Natural Resources and Energy Supply 27
4.4.9 Noise and Noise-Compatible Land Use 28
4.4.10 Socioeconomics, Environmental Justice, and Children's Environmental Health and Safety Risks 44
4.4.11 Visual Effects (Including Light Emissions) 46
4.4.12 Water Resources (Wetlands, Surface Waters, Groundwater) 47
4.4.13 Cumulative Impacts 50
5. Mitigation 54
6. Required Permits and Notifications 55
7. Agency and Public Involvement 56
7.1 Agency Coordination 56
7.2 Public Involvement 56
8. Conclusion 56

LIST OF FIGURES

Figure 1 Project Location 1
Figure 2 1998 EA Proposed Action (Alternative 4R) 1
Figure 3 2018 Proposed Action 3
Figure 4 Comparison of 2018 Proposed Action to the 1998 EA 7
Figure 5 2018 Proposed Action and 1996 HPP Cultural Resources 25
Figure 6 Noise Contours with Land Use 36
Figure 7 High Growth Sensitivity Analysis - Noise Contours with Land Use 40
Figure 8 2018 Proposed Action and Water Resources 48

LIST OF TABLES

Table 1.1 Midfield Cargo Facility Improvements (2018 Proposed Action) – Variation from 1998 EA 3
Table 4.1 Comparison of Impervious Area – Midfield Cargo Facility Improvements vs. 1998 EA 8
Table 4.2 FAA Order 1050/5050.4 Significance Threshold Updates 9
Table 4.3 Environmental Resource Categories Not Affected 11
Table 4.4 Regulatory Framework and Analysis Criteria 12
Table 4.5 2020 Airport Operations Emissions (tons per year) 18
Table 4.6 Comparison to 1998 EA Airport Operations Emissions 18
Table 4.7 Construction Operations Emissions (tons per year) 19
Table 4.8 Summary of Potential Changes to Air Quality 20
Table 4.9 Summary of Potential Changes to Biological Resources 21
Table 4.10 Summary of Potential Changes to Climate 22
Table 4.11 Summary of Potential Changes to Coastal Resources 23
Table 4.12 Hazardous Materials, Solid Waste and Pollution Prevention 24
Table 4.13 Summary of Potential Changes to Historical, Architectural, Archeological, and Cultural Resources 26
Table 4.14 Summary of Potential Changes to Land Use 27
Table 4.15 Summary of Potential Changes to Natural Resources and Energy Supply 28
Table 4.16 No Action Average Annual Day Operations Forecast 30
Table 4.17 Proposed Action Average Annual Day Operations Forecast 32
Table 4.18 Cargo Ramp Utilization Rates at Comparable Airports 33

Table 4.19 Comparison of Average Annual Day Aircraft Departures 34

Table 4.20 Comparison of Average Annual Day All-Cargo Aircraft Departures 35

Table 4.21 Noise Analysis – Comparison of the 2018 No Action, 2018 Proposed Action and 1998 EA Proposed Action Contours 37

Table 4.22 Noise Levels over Noise Sensitive Areas (DNL)– 2018 No Action (Year 2020) vs. 2018 Proposed Action (Year 2020) 38

Table 4.23 High Growth Sensitivity Analysis 41

Table 4.24 Noise Analysis – Comparison of the 2018 No Action, 2018 High Growth and 1998 EA Proposed Action Contours 42

Table 4.25 Noise Levels over Noise Sensitive Areas (DNL)– 2018 No Action (Year 2020) vs. 2018 High Growth Scenario (Year 2020) 42

Table 4.26 Summary of Potential Changes to Noise and Noise-Compatible Land Use 43

Table 4.27 Summary of Potential Changes to Socioeconomics, Environmental Justice, and Children's Environmental Health and Safety Risks 45

Table 4.28 Summary of Potential Changes to Visual Effects (Including Light Emissions) 47

Table 4.29 Summary of Potential Changes to Water Resources (Wetlands, Surface Waters, Groundwater) 50

Table 4.30 BWI Marshall On-Airport Cumulative Projects 51

Table 4.31 Summary of Potential Changes to Cumulative Impacts 54

APPENDICES

Appendix A: Air Quality

Appendix B: U.S. Fish and Wildlife Service IPaC

Appendix C: Coastal Resources

Appendix D: Cultural Resources

Appendix E: AEDT Noise and Emissions Analysis using General Planning Assumptions

Appendix F: Noise

Appendix G: Stormwater

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1. INTRODUCTION AND BACKGROUND

This Technical Report examines improvements to the existing Midfield Cargo Facility at Baltimore/Washington International Thurgood Marshall Airport (BWI Marshall Airport) that are proposed to complete the cargo facilities in the midfield area as considered in previous National Environmental Policy Act (NEPA) documentation. The existing Midfield Cargo Facility area in relation to Airport property is illustrated on **Figure 1**.

The proposed Midfield Cargo Facility Improvements (subject of this Technical Report) would implement projects that complete the existing Midfield Cargo Facility plan considered in the 1998 EA. The proposed Midfield Cargo Facility Improvements include refinements to projects that were identified and first assessed in the 1998 *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport* ("1998 EA"). The 1998 EA and associated Finding of No Significant Impact (FONSI) reviewed potential projects as part of the full buildout of the Midfield Cargo Facility, as illustrated on **Figure 2** which illustrates the 1998 EA Preferred Alternative (Alternative 4R) ("1998 EA Proposed Action"). An initial portion of the planned facilities was constructed following the 1998 EA, as discussed in *Section 1.2*. Additionally, a six-acre apron expansion was constructed in 2017 following an approved Re-Evaluation of the 1998 EA in August of 2017. However, full buildout of the preferred alternative from the original 1998 EA has still not been implemented.

The potential environmental impacts of the Midfield Cargo Facility Improvements ("2018 Proposed Action" in this Technical Report) were initially identified and evaluated in the 1998 EA as part of a larger Midfield Cargo Facility construction effort. Given that the full development was not implemented within the FAA's three-year timeline for major steps toward implementation after issuance of the FONSI and given updates in FAA Orders and other environmental regulations, consideration of the potential environmental impacts of the proposed improvements under NEPA is undertaken in this Technical Report.

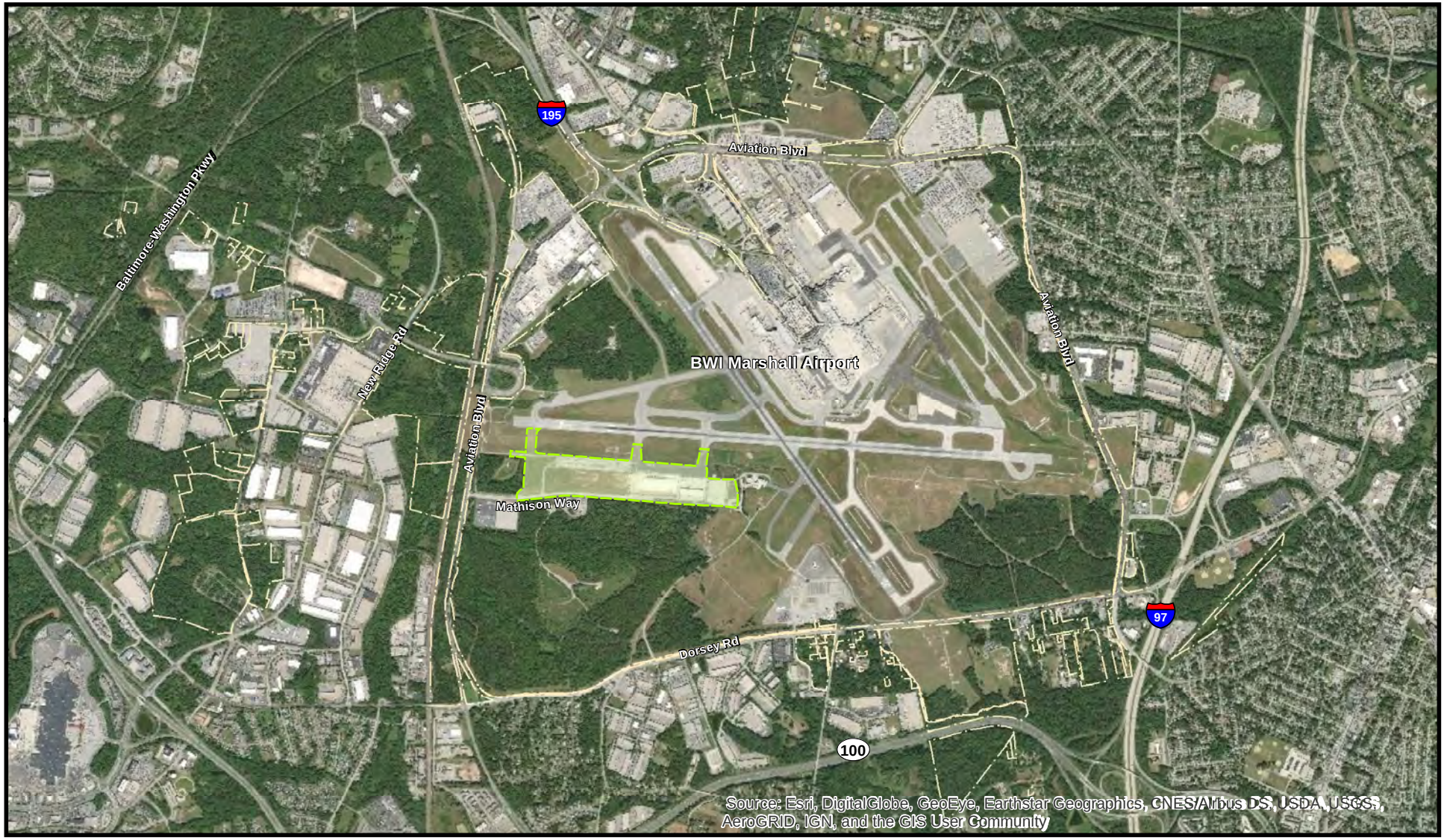
1.1 BACKGROUND

Air cargo operations at BWI Marshall Airport represent a large portion of the Airport's support facilities and play a vital role in the operations of the Airport. There are three primary air cargo facility areas at BWI Marshall Airport: North Cargo Complex, Elm Road Cargo Complex, and the Midfield Cargo Facility. These cargo areas combined contain approximately 412,000 square feet of building space on 100 acres of cargo-related land uses at the Airport. Access to the North Cargo Complex is via Aviation Boulevard and access to the Elm Road Complex is via Aviation Boulevard to Elm Road. Access to the Midfield Cargo Facility is via Mathison Way off Aviation Boulevard. Aircraft parking positions on the ramps are assigned by MDOT MAA with the cargo apron parking positions essentially operating as "preferential use" rather than "exclusive use" parking positions.[1]

The North Cargo Complex has six cargo buildings (A-F), the Elm Road Cargo Complex has three cargo buildings (107, 111, 112), and the Midfield Cargo Facility currently has one building (G). Each of the cargo areas also have airside cargo apron areas; the ramp areas at the North Cargo Complex/Elm Road Complex are identified as Cargo Apron I and Cargo Apron II and encompass approximately 24 acres. The ramp area at the Midfield Cargo Facility includes approximately 25 acres of aircraft ramp and taxiway/taxilane movement area (including the 2017 expansion). There is limited land area available around the North Cargo and Elm Road Cargo complexes as it is almost entirely developed. There is, however, additional space/capacity preserved around the Midfield Cargo Complex for the development of additional facilities.

Overall, cargo operations (enplaned and deplaned short tons, including belly and all-cargo freight and mail) at the Airport have been on the rise, with a 1.2% increase in annual volume between 2015 (128,633 tons) and 2016 (130,155 tons), and an increase of 42.1% between 2016 and 2017 (185,049 tons). Cargo activity

Midfield Improvements



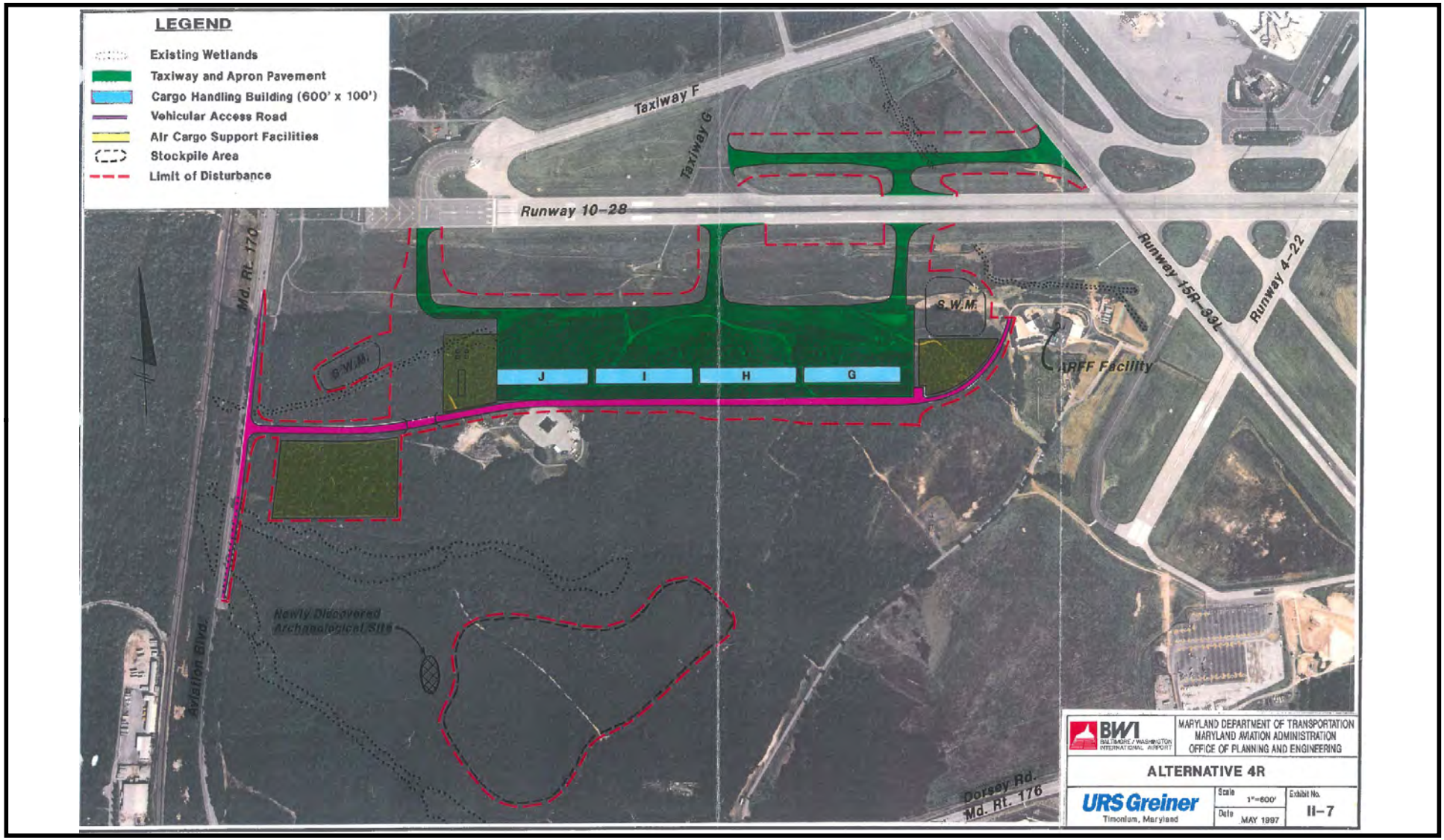
LEGEND

- Study Area
- Airport Property Boundary

Project Location
Figure 1

N

0 750 1,500 3,000 Feet



1998 EA Proposed Action (Alternative 4R)
Figure 2

Not to Scale

Source: MAA, Environmental Assessment for the Proposed Expansion of Air Cargo Facilities, June 1998.

at the Airport continues to rise in 2018 with January and February volumes 74.3% and 65.5% above the same months in 2017 respectively. [2] Virtually all of the recent growth is attributable to the Midfield Cargo Operator. Daily jet departures among the two major non-Midfield Operators – FedEx and UPS — have remained unchanged since 2016 - and remain consistent with the forecasts in the *Draft EA and Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport* (January 2018). Discussions with the Midfield Cargo Operator indicate additional growth in cargo aircraft operations through 2020. The existing facilities are anticipated to satisfy operator demand through the 2018-2019 timeframe, however expanding the Midfield Cargo Facilities as considered in the 1998 EA is needed to accommodate the 2020 demand anticipated by the Midfield Cargo Operator.

The Re-Evaluation of the 1998 EA in August of 2017 was prepared prior to the increase in Midfield Cargo activity noted above. Therefore, the projections used in that study were based on recent historical cargo growth at BWI Marshall and FAA national domestic cargo forecasts. This current Technical Report incorporates more recent cargo activity data and input from the Midfield Cargo Operator. This additional information has resulted in a higher projected growth rate than in the 2017 Re-Evaluation.

Post-2020, there are no indications that the non-Midfield Operators will grow at rates that are inconsistent with their current or past historical trends and/or that they are therefore unlikely to require expanded facilities in the near future. Demand from the Midfield Cargo Operator may continue to increase; however, any material increase beyond what is projected for 2020 would require new or expanded facilities that will trigger separate environmental review commensurate with the level of potential environmental impact associated with those facilities. This is discussed in more detail in Section 4.4.9.

1.2 1998 EA Proposed Action

The Proposed Action for the 1998 EA was approval of a revision to the Airport Layout Plan (ALP) based on the “Alternative 4R” design concept. Alternative 4R (Preferred Alternative) proposed to construct new all-cargo facilities in a new midfield area of the Airport, southwest of Runway 10-28 and Runway 4-22, as illustrated in Figure 2.

The 1998 EA Proposed Action included construction of the Midfield Cargo Facility (Cargo Buildings G, H, I and J), as well as a new connecting and partial parallel taxiway to the north of Runway 10-28 for aircraft to access the existing runway system. Vehicular access to the new cargo complex would be provided by upgrading the unimproved access road connecting Aviation Boulevard at Gate 13 with the new ARFF facility to the east of the cargo complex. Approximately 43 acres south of the proposed access road of the Midfield Cargo Facility near Aviation Boulevard would be available for development of cargo support facilities and other uses.[3]

It was anticipated that development of the proposed facilities would occur over a ten-year period, with the initial development phase to include the construction of the first two buildings (G and H) and access road, along with grading operations for the full development area. Ultimate development of the remaining buildings (I and J) and the support area south of the access road was anticipated to occur over the next eight years, with anticipated construction for Building I and J in 2003 and 2007, respectively, based on expected growth and demand.[4]

Following the 1998 EA/FONSI, the improvements were only partially implemented. Building G, along with approximately six acres of ramp area and four acres of air cargo support facility pavement (vehicle parking) were constructed, and the grading operations for the full development area were completed. The access road improvements were also implemented, along with the majority of the associated connecting and partial parallel taxiways. The full improvements were not implemented at the time because it was expected that, “...facilities will be developed as the need arises rather than on speculation of future use. In the MAA’s planning process, timing of actual development is reviewed on an ongoing basis...”[5]

1.3 MIDFIELD CARGO FACILITY IMPROVEMENTS (2018 PROPOSED ACTION)

As illustrated on **Figure 3**, the Midfield Cargo Facility Improvements (2018 Proposed Action) being evaluated in this Technical Report includes the following improvements for completion of the Midfield Cargo Facility.

- Construct approximately 11.0 acres of additional apron pavement, including 0.6 acres of dedicated truck staging;
- Construct approximately 7.6 acres of additional truck parking/staging area pavement;
- Construct approximately 9.2 acres of vehicular parking space (5.4 acres) and vehicular pavement (3.8 acres) associated with the proposed building;
- Construct an approximately 200,000 SF warehouse/cargo processing building;
- Construct three (3) 10,000-barrel (1 barrel = 42 US gallons) Jet-A fuel tanks (49' diameter x 30' tall) to store additional volume as well as minor mechanical improvements to accommodate additional fuel storage needs for the midfield cargo facility;
- Construct a taxiway connection to Runway 10 (approximately 2.8 acres of pavement);
- Rehabilitate the existing taxilane and two taxiway connectors in the area north of the proposed new apron pavement up to the Taxiway G and Taxiway R1 hold lines (approx. 21.1 acres);
- Construct storm drain pipes to connect into the existing storm drain system draining to Pond B6; and
- Provide associated site infrastructure such as security fencing and area lighting.

Glycol would continue to be collected using Glycol Recovery Vehicles (GRVs), stored temporarily in movable tanks, and transported to other areas of the Airport for disposal.

The project is consistent with the approved BWI Marshall Airport Layout Plan (ALP). Figure 3 also illustrates the Study Area, which identifies the proposed area to be used for construction staging and laydown.

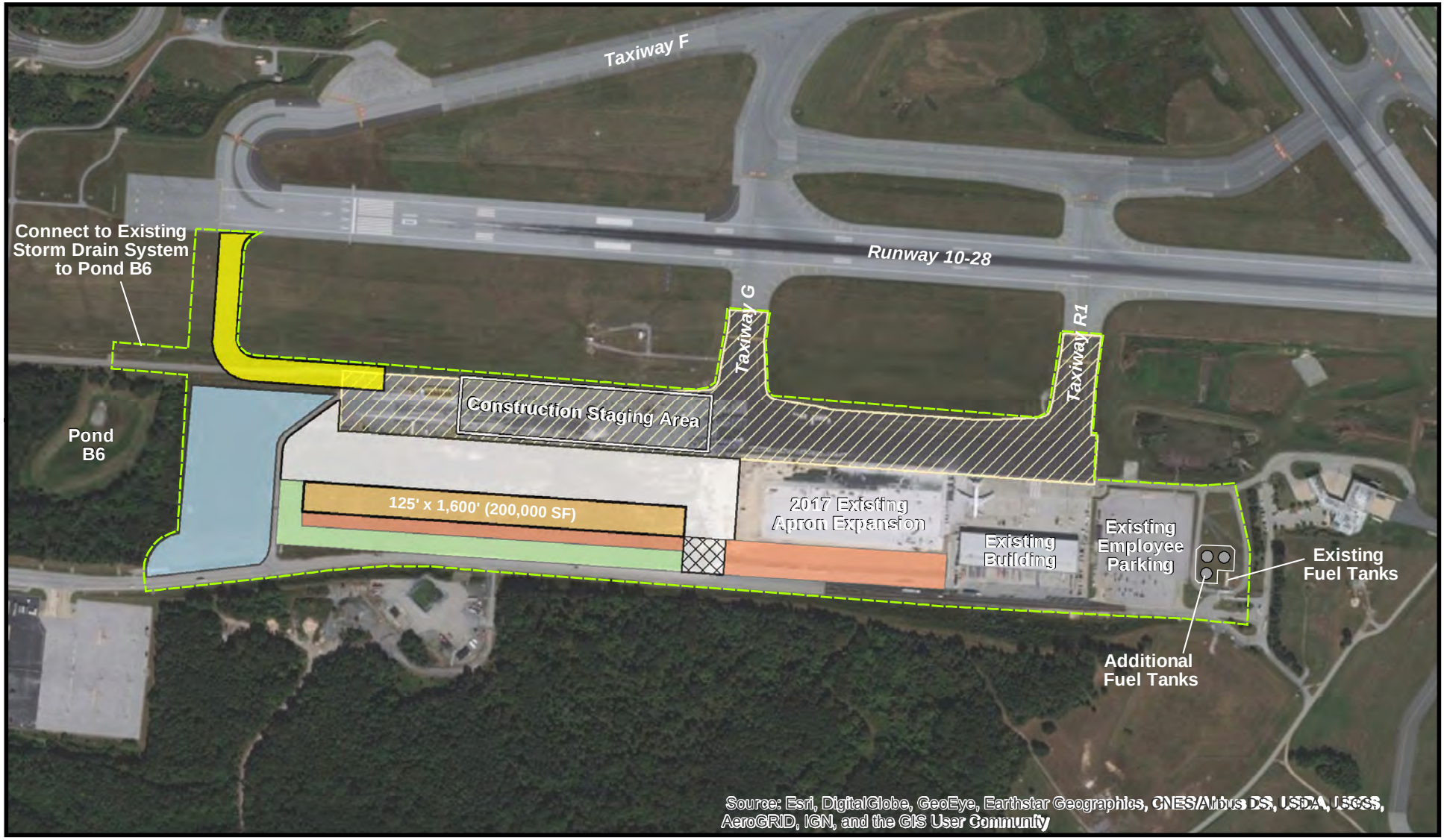
Table 1.1 explains the differences between the Midfield Cargo Facility Improvements (2018 Proposed Action) and the 1998 EA Preferred Alternative. *Section 4.1, Environmental Setting*, provides detailed information related to how the Proposed Action Study Area currently being considered is different in size from the 1998 EA Limits of Disturbance (LOD) and impervious area.

Table 1.1

Midfield Cargo Facility Improvements (2018 Proposed Action) – Variation from 1998 EA

Midfield Cargo Facility Improvements (2018 Proposed Action)	Project Included in 1998 EA	Within 1998 EA LOD	Explanation
Construct approximately 11.0 acres of additional apron pavement, including 0.6 acres of dedicated truck staging.	Yes	Yes	This project was proposed in the 1998 EA as apron pavement.
Construct approximately 7.6 acres of additional truck parking/staging area pavement.	No	Yes	This project was not a standalone project in the 1998 EA, but is within a portion of the area called out as Air Cargo Support Facilities. The truck

Midfield Improvements



LEGEND

- Study Area
- Proposed Apron Pavement (11.0 Acres)
- Proposed Truck Parking/Staging Area Pavement (7.6 Acres)
- Proposed Vehicle Pavement (3.8 Acres)
- Proposed Vehicle Parking (5.4 Acres)
- Proposed Building (200,000 SF)
- Proposed Taxiway (2.8 Acres)
- Proposed Truck Staging Area (0.6 Acres)
- Mill and Overlay (21.1 Acres)

2018 Proposed Action
Figure 3

N

0 150 300 600 Feet

Table 1.1

Midfield Cargo Facility Improvements (2018 Proposed Action) – Variation from 1998 EA

Midfield Cargo Facility Improvements (2018 Proposed Action)	Project Included in 1998 EA	Within 1998 EA LOD	Explanation
			parking/staging area pavement of the Proposed Action extends beyond the 1998 EA impervious footprint but is within the 1998 EA LOD and the entire area was previously graded.
Construct approximately 9.2 acres of vehicular parking space (5.4 acres) and vehicular pavement (3.8 acres) associated with the proposed building.	No	Yes	This project was not a standalone project in the 1998 EA, but is fully within the 1998 EA LOD and impervious areas identified as air cargo support facilities, apron pavement and cargo buildings.
Construct an approximately 200,000 SF warehouse/cargo processing building.	Yes	Yes	This project was proposed in the 1998 EA as a cargo building; the 1998 EA proposed four cargo buildings, totaling approximately 240,000 SF; there is currently one-70,000 SF cargo building on the Midfield Cargo apron.
Construct three (3) 10,000-barrel (1 barrel = 42 US gallons) Jet-A fuel tanks (49' diameter x 30' tall) to store additional volume as well as minor mechanical improvements to accommodate additional fuel storage needs for the midfield cargo facility.	No	Yes	This project was not a standalone project in the 1998 EA, but is adjacent to the area identified as Air Cargo Support Facilities; the fuel tank area is outside of the 1998 EA impervious footprint but is within the 1998 EA LOD.
Construct a taxiway connection to Runway 10 (approximately 2.8 acres of pavement).	Yes	Yes	This project was proposed in the 1998 EA as taxiway pavement; the proposed taxiway connection pavement extends outside of the 1998 EA impervious footprint but is within the 1998 EA LOD and the entire area was previously graded.
Rehabilitate the existing taxilane and two taxiway connectors in the area north of the proposed new apron pavement up to the Taxiway G and Taxiway R1 hold lines (approx. 21.1 acres).	N/A	Yes	These areas were proposed in the 1998 EA and constructed in 1999-2000; the rehabilitation area is fully within the 1998 EA LOD.
Construct storm drain pipes to connect into the existing storm drain system draining to Pond B6.	Yes	No, but was graded	Pond B6 was proposed in the 1998 EA and constructed in 1999-2000 to treat the full build out of the Midfield Cargo area. While storm drain connections were proposed as part of the 1998 EA, their specific locations

Table 1.1

Midfield Cargo Facility Improvements (2018 Proposed Action) – Variation from 1998 EA

Midfield Cargo Facility Improvements (2018 Proposed Action)	Project Included in 1998 EA	Within 1998 EA LOD	Explanation
			were not identified. The current proposed connection to the existing storm drain extends just beyond the 1998 EA LOD (due to existing storm drain locations) but within an area that was previously graded. The current proposed connection is a modification of what was considered in the 1998 EA.
Provide associated site infrastructure such as security fencing and area lighting.	Assumed	Yes	

Source: HNTB analysis, 2018.

Estimated Schedule

Rehabilitation of the existing apron and taxilanes is anticipated to occur by the end of 2018. The other improvements associated with the Proposed Action are anticipated to begin in November 2018 and be complete in October 2019 (11 months).

2. PURPOSE AND NEED

Based on the approved 1996 "Expected Growth" forecast, the 1987 Master Plan Study, and the 1995 evaluation of the Air Cargo Complex, it was projected that the (then) existing cargo facilities would not be able to accommodate expected growth in cargo activity through 2015 and that the demand for air cargo facilities would exceed available facilities through the planning period (Year 2015).

The facilities required to accommodate the expected cargo activity growth included additional aircraft parking apron, landside facilities, and cargo buildings. The (then) existing Cargo Complex and Elm Road cargo area were constrained in terms of apron expansion and cargo building expansion, and any measures to expand these areas by relocating existing facilities would have been inappropriate and expensive.

Specifically, the 1998 EA stated the following need for additional cargo facilities:

> *"Using industry planning guidelines for cargo complex layouts, approximately 65 acres [were] needed to contain 220,000 square feet of cargo building space and adjacent parking apron capable of supporting wide-body aircraft. In addition, an area of approximately 25 acres [was] needed to provide cargo support facilities, such as truck and employee/customer parking, fueling facilities, ground support equipment (GSE) storage, truck wash etc.*
>
> *Considering land requirements for vehicle access and circulation, it [was] estimated that an area comprising approximately 100 acres will be needed for locating additional air cargo facilities at BWI."* [6]

The 1998 EA emphasized that the facilities would be developed as the need arises rather than on speculation of future use. The EA states, "In the MAA's planning process, timing of actual development is

reviewed on an ongoing basis and another evaluation of the demand for future cargo development is likely to occur before construction commences." [7]

Update to Purpose and Need

In the 20 years following the approval of the 1998 EA, major changes in aviation have occurred, as well as in the world economy. The future cargo growth that was expected in the late 1990s is now coming to fruition. Activity levels of the current cargo operations at BWI Marshall Airport are growing, thus requiring additional aircraft parking, cargo processing, and intermodal connection facilities beyond what is currently available. To accommodate this activity trend, the proposed Midfield Cargo Facility Improvements (2018 Proposed Action) are needed.

Forecast operator demand indicates the need for six to seven additional aircraft parking spaces by 2020, capable of accommodating Airplane Design Group (ADG) IV aircraft – such as the Boeing 767, with some ADG III aircraft and rare operation of Group-V and VI aircraft – such as the Airbus A330 and Boeing 747-8F – during peak seasonal activity. In association with the additional cargo spaces and area for aircraft and vehicular movement, a second warehouse is needed to process cargo.

Improvements to the existing fuel facility would be needed to store additional volume (the three tanks' combined storage capacity would offer approximately 5.1 days' supply on-site) to accommodate the Midfield Cargo Facility operations and would include minor mechanical improvements to handle the anticipated loading and unloading demands for the Midfield Cargo Facility. The facility would continue to be dedicated to servicing the cargo operation only and would continue to utilize airfield fueling vehicles to transfer the fuel from the tanks to the aircraft.

A new taxiway connection to Runway 10 is needed to allow adequate access to Runway 10-28 or other parts of the airfield during the times that aircraft are active on the existing taxilane between Taxiways G and R1. Without the proposed taxiway connection aircraft taxiing to or from the proposed warehouse/cargo processing building will need to hold on the new apron or in other areas of the airfield until the taxilane between Taxiway G and R1 is available which will reduce the efficiency of the Midfield Cargo Facility.

The existing taxilane and taxiways north of the existing and proposed new apron pavement need rehabilitation (i.e. mill and overlay). The entire length of the taxilane is functionally failing and represents a foreign object debris (FOD) risk to operations. The existing pavement surface is severely weathered and the resultant exposed aggregate is loose and subject to engine ingestion, or becoming a projectile, which poses a threat to persons and property. Portions of the adjoining Taxiways G and R1 are exhibiting areas of rutting and shoving. Finally, security fencing and additional lighting will be needed to adequately protect the proposed Midfield improvements.

The Midfield Cargo Facility Improvements would help accommodate the Airport's existing and forecast growth in air cargo operations. The need discussed in the 1998 EA for the air cargo facility improvements was based upon a forecast that met the expectations for cargo growth as understood in the mid-1990s, whereas the need for the 2018 Proposed Action is based upon the specific needs of the Midfield Cargo Operator. However, the general purpose and need for the completion of the Midfield Cargo area remains valid: to support cargo operations as demand dictates at BWI Marshall Airport.

3. ALTERNATIVES

The 1998 EA considered five build alternatives in detail. Alternative 4R as recommended in the 1998 EA remains valid. Alternative 4R provided for incremental development of new cargo facilities as demand increased through the planning period. The proposed Midfield Cargo Facility Improvements continue to meet the evaluation criteria of the 1998 EA and continue to satisfy the general purpose and need for additional cargo facilities. There are three primary air cargo facility areas at BWI Marshall Airport (North

Cargo Complex, Elm Road Cargo Complex, and the Midfield Cargo Facility). The North Cargo and Elm Road Cargo complexes are both almost entirely developed and could not accommodate the needs of the Cargo Operator in either location. There is adequate space and capacity in the Midfield Cargo Facility to accommodate the needs of the Cargo Operator and there are no unresolved conflicts concerning alternative uses of available resources. No alternative locations to the 2018 Proposed Action were considered in detail.

4. AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES

4.1 ENVIRONMENTAL SETTING

BWI Marshall Airport is bordered on the west, north, and east by Aviation Boulevard (MD 170/MD 162) and by Dorsey Road (MD 176) on the south. Interstate 195 (I-195) provides access to the passenger terminal. BWI Marshall Airport includes airfield, passenger terminal, landside, air cargo, general aviation, and support facilities. The Airport's physical layout and surroundings are depicted on Figure 1. As shown, the Proposed Action would occur in an existing, previously disturbed cargo area of the Airport, consistent with designated land uses at BWI Marshall Airport. The Study Area is designated as "Aviation Support" on the approved ALP.

The environmental setting remains similar as provided in the 1998 EA. Several changes to the airfield and terminal area have occurred since 1998, including the development of the initial phases of the Midfield Cargo Facility and other projects specified in the 1998 EA Proposed Action, including the parallel taxiway north of Runway 10-28 and the six-acre apron expansion of the 2017 Re-Evaluation. Additionally, grading operations for the EA's full development area were conducted following the 1998 EA/FONSI, and therefore the Study Area for the 2018 Proposed Action is either fully developed or partially developed as building pads for future buildout, or flat and mowed/maintained.

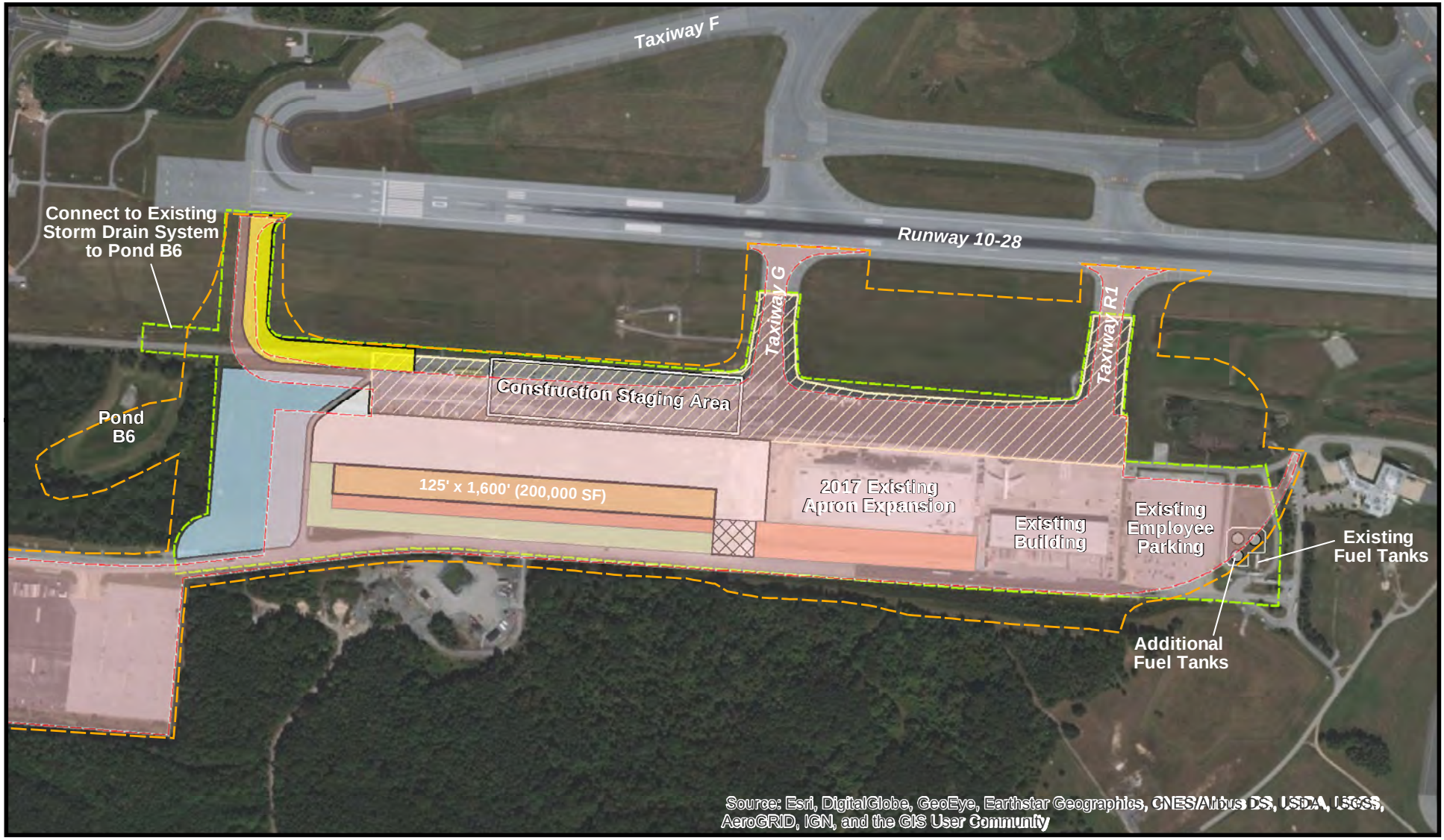
No changes have occurred to the Airport's land uses or the surrounding land uses, however. Any changes to the existing conditions at the Airport or the Airport's surroundings are noted within the pertinent environmental category in *Section 4.4*. The Airport's physical layout and surroundings are depicted on Figure 3, along with the Study Area, which incorporates the area to be used for construction staging and laydown.

<u>Comparison of Study Area to the 1998 EA</u>

Though a slightly different configuration than conceptualized in the 1998 EA, the extents of development are primarily within the limits of disturbance (LOD) originally evaluated. **Figure 4** illustrates the current Proposed Action, along with the original 1998 EA LOD and impervious area.[8] The 1998 EA LOD encompassed approximately 146 acres, and the proposed impervious surface within this LOD included approximately 87 acres. Of the 87 acres evaluated in the 1998 EA, approximately 61 acres of impervious area have been constructed, of which 56 acres are within the original 1998 EA footprint. The additional six acres of impervious area are within the 1998 EA LOD but include wider taxiways and the northern portion of the Midfield Cargo apron.

The 2018 Proposed Action proposes approximately 35.3 acres of new impervious surface. The 2018 Proposed Action impervious area is within the 1998 EA LOD, but includes approximately 7.4 acres of impervious surface outside the 1998 EA impervious surface footprint (see **Table 4.1** for a summary of the 2018 Proposed Action impervious area improvements in relation to the 1998 EA impervious areas).

Midfield Improvements



LEGEND

- Study Area
- 1998 EA Limit of Disturbance
- 1998 EA Proposed Action Impervious Area
- Proposed Apron Pavement (11.0 Acres)
- Proposed Truck Parking/Staging Area Pavement (7.6 Acres)
- Proposed Vehicle Pavement (3.8 Acres)
- Proposed Vehicle Parking (5.4 Acres)
- Proposed Building (200,000 SF)
- Proposed Taxiway (2.8 Acres)
- Proposed Truck Staging Area (0.6 Acres)
- Mill and Overlay (21.1 Acres)

Comparison of 2018 Proposed Action to the 1998 EA
Figure 4

N

0 150 300 600 Feet

Table 4.1

Comparison of Impervious Area – Midfield Cargo Facility Improvements vs. 1998 EA

	Within 1998 EA LOD		
	Within 1998 EA Impervious Area	**Outside 1998 EA Impervious Area**	**Total**
1998 EA Impervious Area	87	--	87
Currently Developed (Existing)	55.7	5.7	61.4
2018 Proposed Action			
Apron Pavement	11.0		11.0
Truck Parking/Staging	2.3	5.3	7.6
Vehicular Pavement/Parking Area	9.2		9.2
Warehouse/Cargo Building	4.6		4.6
Fuel Tanks		0.1	0.1
Taxiway Connection	0.8	2.0	2.8
**Taxiway/Apron Rehabilitation*	*16.7*	*4.4*	*21.1*
Storm Drains	--	--	--
Fencing/Security	--	--	--
Proposed Action Total	**27.9**	**7.4**	**35.3**
Total Currently Developed and 2018 Proposed Action Development	**83.6**	**13.1**	**96.7**

**Taxiway/Apron Rehabilitation area is entirely within existing impervious area and is not included in the 2018 Proposed Action Impervious Area Total.*

Source: HNTB GIS Analysis, September 2018.

4.2 Summary of Changes to Regulatory Requirements

The FAA's policy and procedures for compliance with NEPA and implementing regulations issued by the Council on Environmental Quality (CEQ) have been updated since the 1998 EA was approved. The 1998 EA was conducted in accordance with FAA Order 1050.1D, Change 4, "Policies and Procedures for Considering Environmental Impacts" (June 14, 1999) and FAA Order 5050.4A, "Airport Environmental Handbook." Both Orders have been cancelled and replaced with subsequent guidance. The following current Orders are applicable to this Technical Report:

- **FAA Order 1050.1F***, Environmental Impacts: Policies and Procedures*, became effective 7/16/15 and replaced Order 1050.1D, and subsequently Order 1050.1E. This Order serves as the FAA's policies and procedures for compliance with NEPA and implementing regulations issued by the CEQ.
- **FAA Order 5050.4B**, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions*, became effective in April 2006 and replaced FAA Order 5050.4A. This Order is a supplement to Order 1050.1F and is intended to provide instruction on evaluating those environmental effects.

To ensure all the environmental impact categories that were evaluated in the 1998 EA are considered in this Technical Report, **Table 4.2** provides a list of the resource categories analyzed in the 1998 EA, along

with the updated environmental impact categories evaluated for this Technical Report in accordance with Order 1050.1F, the 1050.1F Desk Reference, and Order 5050.4B. Since the publication of Order 1050.1D, several of the resource categories have either been renamed or combined, any changes to terminology of environmental resource categories analyzed or relevant significance thresholds are included in Table 4.2.

Any changes to local or state requirements that are relevant to the potential impacts of the Midfield Cargo Facility Improvements (2018 Proposed Action) are identified and discussed in the relevant impact category in *Section 4.4, Potentially Affected Environmental Resource Categories.*

Table 4.2

FAA Order 1050/5050.4 Significance Threshold Updates

FAA Orders 1050.1D and 5050.4A (1998 EA)	**FAA Orders 1050.1F and 5050.4B (Technical Report)**	**Relevant Changes (if applicable)**
Noise	Noise and Noise-Compatible Land Use	Combined Noise and Compatible Land Use as it relates to noise compatibility into a single impact category.
Compatible Land Use		
Social Impacts	Socioeconomics, environmental justice, and children's environmental health and safety risks	Renamed and updated to include environmental justice and children's environmental health and safety risks. Demographic information of the geographic area of potentially significant impacts is used for purposes of anticipating and responding to public concerns about EJ and children in accordance with applicable Executive Orders, directives, and guidance issued by the CEQ and EPA was added.
Induced Socioeconomic Impacts	N/A	Integrated with Socioeconomics, environmental justice, and children's environmental health and safety risks category.
Air Quality	Air Quality	National Ambient Air Quality Standards (NAAQS) have been updated. Section also added clarifying language to the significance threshold: "to include instances where the increase in frequency or severity of an existing violation would be significant."

Table 4.2

FAA Order 1050/5050.4 Significance Threshold Updates

FAA Orders 1050.1D and 5050.4A (1998 EA)	**FAA Orders 1050.1F and 5050.4B (Technical Report)**	**Relevant Changes (if applicable)**
Water Quality	Water Resources (including wetlands, floodplains, surface waters, groundwater, and wild and scenic rivers)	Combined water quality, wetlands and floodplains; No federal change applicable to Proposed Action.
Wetlands		
Floodplains		
Wild and Scenic Rivers		
Department of Transportation Act, Section 4(f)	Department of Transportation Act, Section 4(f)	No federal change applicable to Proposed Action.
Historical, architectural, archeological, and cultural resources	Historical, architectural, archeological, and cultural resources	No federal change applicable to Proposed Action.
Biotic Communities (including both Flora and Fauna)	Biological resources (including fish, wildlife, and plants)	Combined; special status species added (e.g., state species of concern, species proposed for listing, migratory birds, bald and golden eagles) or their habitats.
Endangered and Threatened Species of Flora and Fauna		
Coastal Zone Management Program	Coastal Resources	Combined; No federal change applicable to Proposed Action.
Coastal Barriers		
Farmlands	Farmlands	No federal change applicable to Proposed Action.
Energy Supply and Natural Resources	Natural Resources and Energy Supply	No federal change applicable to Proposed Action.
Light Emissions	Visual Effects (including light emissions)	Added visual effects to resource category. Desk Reference states Visual effects are broken into two categories: 1) Light Emission Effects; and 2) Visual Resources and Visual Character.
Solid Waste Impacts	Hazardous Materials, Solid Waste, and Pollution Prevention	Added hazardous materials and pollution prevention.

Table 4.2

FAA Order 1050/5050.4 Significance Threshold Updates

FAA Orders 1050.1D and 5050.4A (1998 EA)	FAA Orders 1050.1F and 5050.4B (Technical Report)	Relevant Changes (if applicable)
Construction Impacts	--*	*In Order 1050.1F, this category is to be analyzed within each applicable environmental impact category.
N/A	**Climate**	New Category.
N/A	**Cumulative Impacts**	Cumulative impact analysis was required in the Order, but not as its own resource category.

Sources: FAA Orders 1050.1D, 5050.4A (10/8/1985), FAA Order 1050.1F (8/6/2015), and Order 1050.1F Desk Reference (July 2015).

4.3 Environmental Resources Not Affected by the Proposed Action

The MDOT MAA has determined that the following resource areas as evaluated in the 1998 EA will not be affected by the implementation of the 2018 Proposed Action and therefore will not be evaluated in this Technical Report. **Table 4.3** presents the environmental resource as well as the rationale for no further review of these categories. In accordance with guidance provided in FAA Orders 5050.4B and 1050.1F, no further analysis of these resources is required.

Table 4.3

Environmental Resource Categories Not Affected

Resource Category	Reason Not Included
Department of Transportation Act, Section 4(f) and Section 6(f) of the Land and Water Conservation Fund Act	There are no Section 4(f) or 6(f) Resources in the Study Area.
Farmlands	There are no farmlands present in the Study Area.
Water Resources (Floodplains, and Wild and Scenic Rivers)	There are no floodplains in the Study Area. There are also no river segments listed in the Wild and Scenic River System nor the Nationwide River Inventory located within the vicinity of BWI Marshall Airport.

4.4 Potentially Affected Environmental Resource Categories

The MDOT MAA has determined that the following resource area evaluations contained in the 1998 EA could potentially be affected by the implementation of the 2018 Proposed Action, and therefore are further evaluated in this Technical Report:

- Air Quality
- Biological Resources (including fish, wildlife and plants)

- Climate
- Coastal Resources
- Land Use
- Hazardous Materials, Solid Waste, and Pollution Prevention
- Historical, Architectural, Archeological, and Cultural Resources
- Natural Resources and Energy Supply
- Noise and Noise-Compatible Land Use
- Socioeconomic Impacts, Environmental Justice, and Children's Environmental Health and Safety Risks
- Visual Effects (including light emissions)
- Water Resources (Wetlands, Surface Waters, Groundwater)
- Cumulative Impacts

Table 4.4 provides the regulatory framework and analysis criteria for each resource area. The following environmental resource categories address FAA Orders 1050.1F and 5050.4B requirements and significance thresholds.

Table 4.4

Regulatory Framework and Analysis Criteria

Impact Category	Regulatory Framework	Analysis Criteria[1]
Air Quality	Under the Clean Air Act (CAA) the U.S. Environmental Protection Agency (EPA) developed the National Ambient Air Quality Standards (NAAQS) for six common air pollutants (carbon monoxide (CO), nitrogen dioxide (NO2), ozone (O3), particulate matter (PM), sulfur dioxide (SO2), and lead (Pb). The EPA regulates these pollutants to permissible levels through human health - based (primary standards) and environmental - based (secondary standards) criteria.	Whether the action would cause pollutant concentrations to exceed one or more of the NAAQS, as established by the EPA under the CAA, for any of the time periods analyzed, or to increase the frequency or severity of any such existing violations.
Biological Resources (including fish, wildlife and plants)	The Endangered Species Act requires all Federal agencies to seek to conserve threatened and endangered species. Section 7(a)(2) requires Federal agencies, in consultation with the Services (U.S. Fish and Wildlife Service (USFWS) and/or the National Marine Fisheries Service (NMFS)), to ensure that any action the agency authorizes, funds, or carries out is not likely to jeopardize the continued existence of a listed species or result in the destruction or adverse modification of designated critical habitat. The Fish and Wildlife Coordination Act requires that Federal agencies consult with the USFWS, NMFS (in some instances), and appropriate state fish and wildlife agencies regarding the conservation of wildlife resources when proposed Federal projects may result in control or modification of the water of any stream or other water body.	A significant impact to biological resources would occur when the USFWS or the NMFS determines that the action would be likely to jeopardize the continued existence of a federally listed threatened or endangered species, or would result in the destruction or adverse modification of federally designated critical habitat. The FAA has not established a significance threshold for non-listed species. * *FAA Order 1050.1F provides additional factors to consider in evaluating the context and intensity of potential environmental impacts for biological resources.*

Table 4.4

Regulatory Framework and Analysis Criteria

Impact Category	Regulatory Framework	Analysis Criteria[1]
Climate	In response to Executive Order 13514, the Council on Environmental Quality developed Federal Greenhouse Gas Accounting and Reporting Guidance (October 6, 2010) (hereafter "Federal protocol"), which serves as the Federal government's official GHG reporting protocol. In accordance with the Federal protocol, and to provide a single metric that embodies all GHGs, emissions should be discussed and reported in metric tonnes of CO2 equivalent (MT CO2e). In December 2014, CEQ issued revised draft NEPA guidance for considering the effects of climate change and GHG emissions. The draft guidance recommended consideration of: (1) the potential effects of a proposed action or its alternatives on climate change as indicated by its GHG emissions; (2) the implications of climate change for the environmental effects of a proposed action or alternatives.[2]	The FAA has not established a significance threshold for Climate.
Coastal Resources	The Coastal Zone Management Act provides for management of the nation's coastal resources, including the Great Lakes. The Coastal Barrier Resources Act prohibits, with some exceptions, Federal financial assistance for development within the Coastal Barrier Resources System that contains undeveloped coastal barriers along the Atlantic and Gulf coasts and Great Lakes.	The FAA has not established a significance threshold for coastal resources. * *FAA Order 1050.1F provides additional factors to consider in evaluating impacts to this category.*
Land Use	Section 1502.16(c) of the Council on Environmental Quality (CEQ) Regulations requires the discussion of environmental impacts including "[p]ossible conflicts between the proposed action and the objectives of Federal, regional, State, and local (and in the case of a reservation, Indian tribe) land use plans, policies and controls for the area concerned." Where an inconsistency exists, the NEPA document should describe the extent to which the agency would reconcile its action with the plan (see Section 1506.2(d) of the CEQ Regulations).	The FAA has not established a significance threshold for land use, and the FAA has not provided specific factors to consider in making a significance determination. The determination that significant impacts exist in the land use impact category is normally dependent on the significance of other impact categories.
Hazardous Materials, Solid Waste, and Pollution Prevention	The Comprehensive Environmental Response, Compensation, and Liability Act (as amended by the Superfund Amendments Reauthorization Act of 1986 and the Community Environmental Response Facilitation Act of 1992) establishes joint and several liability for those parties responsible for hazardous substance releases to pay cleanup costs and establishes a trust fund to finance cleanup costs in situations in which no responsible party could be identified. Enables the creation of the NPL, a list of sites with known releases or threatened releases of	The FAA has not established a significance threshold for hazardous materials, solid waste, or pollution prevention. * *FAA Order 1050.1F provides additional factors to consider in evaluating impacts to this category.*

Table 4.4

Regulatory Framework and Analysis Criteria

Impact Category	Regulatory Framework	Analysis Criteria[1]
	hazardous substances in the United States and its territories used to guide the EPA in determining which sites warrant further investigation. The Emergency Planning and Community Right to Know Act requires hazardous chemical emergency planning by Federal, state, and local governments, Indian tribes, and industry. It also requires industry to report on the storage, use, and releases of hazardous chemicals to Federal, state, and local governments. The Hazardous Materials Transportation Act establishes procedures, reporting requirements, and approval processes for the transport of hazardous materials by common, contract, and private carriers and by aircraft, railcar, vessel, and motor vehicle. The Pollution Prevention Act requires pollution prevention and source reduction control so that wastes would have less effect on the environment while in use and after disposal.	
Historical, Architectural, Archeological, and Cultural Resources	The National Historic Preservation Act (NHPA) establishes the Advisory Council on Historic Preservation (ACHP), an independent agency, and the National Register of Historic Places (NRHP) within the National Park Service (NPS). Section 106 of the NHPA requires Federal agencies to consider the effects of their undertaking (or action) on properties listed on or eligible for listing on the NRHP. Section 110 of the NHPA governs Federal agencies' responsibilities to preserve and use historic buildings; designate an agency Federal Preservation Officer; and identify, evaluate, and nominate eligible properties under the control or jurisdiction of the agency to the NRHP. Section 112 of the NHPA addresses professional standards. Section 314 discusses confidentiality requirements that may apply to an undertaking.	The FAA has not established a significance threshold for the full range of historical, architectural, archeological, and cultural resources. * *FAA Order 1050.1F provides an additional factor to consider in evaluating this category: situations in which the proposed action or alternative(s) would result in a finding of Adverse Effect through the Section 106 process.*
Natural Resources and Energy Supply	The *Energy Independence and Security Act* requires Federal agencies to take actions to move the United States toward greater energy independence and security, to increase the production of clean renewable fuels, to protect consumers, to increase the efficiency of products, buildings, and vehicles, to promote research on and deploy greenhouse gas (GHG) capture and storage options, and to improve the energy performance of the Federal government.	The FAA has not established a significance threshold for natural resources and energy supply.

Table 4.4

Regulatory Framework and Analysis Criteria

Impact Category	Regulatory Framework	Analysis Criteria[1]
Noise and Noise-Compatible Land Use	The *Aviation Safety and Noise Abatement Act of 1979* directs the FAA to establish, by regulation, a single system for measuring noise and determining the exposure of people to noise which includes noise intensity, duration, frequency, and time of occurrence; and to identify land uses normally compatible with various noise exposures.	Whether the action would increase noise by DNL 1.5 dB or more for a noise sensitive area that is exposed to noise at or above the DNL 65 dB noise exposure level, or that will be exposed at or above the DNL 65dB level due to a DNL 1.5dB or greater increase, when compared to the No-Action alternative for the same time frame.
Socioeconomic Impacts, Environmental Justice, and Children's Environmental Health and Safety Risks	Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970 contains provisions that must be followed if acquisition of real property or displacement of people would occur as a result of implementing the selected alternative.	In general, the significance of socioeconomic impacts is determined by the magnitude and duration of the impacts, whether beneficial or adverse. The FAA has not established a significance threshold for socioeconomics. * *FAA Order 1050.1F provides additional factors to consider in evaluating impacts to this category.*
Visual Effects (including light emissions)	Not applicable.	The FAA has not established a significance threshold for visual effects. * *FAA Order 1050.1F provides additional factors to consider in evaluating impacts to this category.*
Water Resources (Wetlands, Surface Waters, Groundwater)	Sections 401 and 404 of the Rivers and Harbors Act protect the navigability of waters used for commerce in the United States. The Safe Drinking Water Act prohibits Federal agencies from funding actions that would contaminate an EPA designated sole source aquifer or its recharge area.	Whether the action would: 1. Exceed water quality standards established by Federal, state, and local, regulatory agencies; or 2. Contaminate public drinking water supply such that public health may be adversely affected. * *FAA Order 1050.1F provides additional factors to consider in evaluating impacts to this category.*

Table 4.4

Regulatory Framework and Analysis Criteria

Impact Category	Regulatory Framework	Analysis Criteria[1]

[1] See Exhibit 4-1 (Significance Determination for FAA Actions), FAA Order 1050.1F.
[2] In August 2016, CEQ released Final Guidance for Federal Departments and Agencies on Consideration of Greenhouse Gas Emissions and the Effects of Climate Change in National Environmental Policy Act Reviews on the effects of climate change and GHG emissions as they relate to NEPA. CEQ subsequently withdrew this final guidance, effective April 5, 2017. However, CEQ's withdrawal of the guidance does not alter NEPA responsibilities and environmental reviews should continue to consider GHG impacts as appropriate.

Sources: FAA Order 1050.1F (8/6/2015), and Order 1050.1F Desk Reference (July 2015).

4.4.1 AIR QUALITY

SUMMARY OF 1998 EA – ALTERNATIVE 4R

At the time of the air quality analysis for the 1998 EA, Anne Arundel County (within the Baltimore region) was designed as a "severe" non-attainment area for O_3. In accordance with the Clean Air Act, a revised State Implementation Plan (SIP) was developed by the MDE demonstrating attainment of the US EPA's established National Ambient Air Quality Standards (NAAQS) for O_3 by the year 2005. In order to assess air emissions associated with BWI Marshall Airport specifically, the MAA commissioned a BWI Marshall Air Quality Plan in 1994. The plan addressed aircraft, ground service vehicles, motor vehicles, fuel facility and other small sources of air emissions at the Airport. The results of the plan and the associated report served as a basis for evaluating existing and future air quality impacts and control measures associated with BWI Marshall Airport and its development.

The 1998 EA determined that total air emissions at BWI Marshall Airport with the proposed air cargo facility expansion were expected to be less than, or equal to, the levels contained in the BWI Marshall Air Quality Plan through the Year 2015 under all Build Alternatives. This conclusion was based on the comparison of forecasted operational levels developed in support of this EA and the Air Quality Plan. While operational levels were consistent for all Build Alternatives, the aircraft taxi-in and taxi-out times were the potential variables between the Build Alternatives that could affect air emissions. Because Alternative 4R was located in the midfield area of the Airport, it was determined that it would operate less taxi-related emissions compared to the alternatives located in the southeast and southwest quadrants of the Airport.

Because forecasted operations at BWI Marshall Airport with the proposed air cargo facility expansion were consistent with those used to develop the air emission inventories contained in the Air Quality Plan, the project was found to conform to the SIP.

MIDFIELD CARGO FACILITY IMPROVEMENTS (2018 PROPOSED ACTION)

Anne Arundel County is presently designated by the EPA as moderate non-attainment for ozone (O_3) and maintenance for particulate matter equal to or less than 2.5 micrometers ($PM_{2.5}$) in diameter.

This Technical Report provides and compares the incremental emissions associated with the 2018 Proposed Action and the total airport emissions including the 2018 Proposed Action to the airport inventories from the 1998 EA, as well as to *de minimis* thresholds contained in the Clean Air Act General Conformity Rule to determine if the conclusions of the 1998 EA remain valid and whether a conformity determination is needed. Pursuant to 40 C.F.R. Section 93.157, a new conformity determination is not needed if incremental emissions associated with a modified action are below the *de minimis* thresholds in the General Conformity Rule.

Airport Operations Emissions

The project is expected to be fully operational in the year 2020. The emissions associated with the Midfield Cargo Facility Improvements (2018 Proposed Action) including the operations associated with the existing apron and facilities in the year 2020 are provided in **Table 4.5.** These emissions include ground support equipment (GSE) and auxiliary power units (APU) for the estimated operations.

Vehicular traffic associated with the 2018 Proposed Action were estimated using ITE assumptions for trip generation associated with 200,000 square feet of warehouse development. This use was the closest use related to cargo processing. It is estimated that the project would include 200 trips for AM peak and 165 trips for PM peak hours (365 trips/day), inclusive of all vehicle types. Surface vehicle traffic was considered to occur 365 days/year. Therefore, the total surface traffic volume is expected to be approximately 133,225 annually, with 70% tractor trailer and 30% passenger vehicle traffic. Additional on-Airport vehicle miles traveled (VMT) are contained along Mathison Way, with an assumed two (2) VMT per trip (one mile in and one mile out). As shown in Table 4.5, the total increase in surface vehicle emissions on-Airport are minimal. Annual roadway volumes on the Airport loop are projected to be approximately 14,778,300 for 2020 (*BWI Marshall Peak Summer of 2012 Traffic Counts* (by Daniels Consultants)). The increase to vehicular traffic volumes to on-Airport roadways from the proposed improvements would be approximately 1%.

The additional Airport operations emissions with the proposed Midfield Cargo Facility Improvements would not exceed *de minimis* levels and therefore no General Conformity determination or re-determination is necessary under the Clean Air Act. 40 C.F.R. Section 93.157(a). Additionally, the State Implementation Plan (*Maintenance Plan for the Washington DC-MD-VA 2008 Ozone NAAQS Nonattainment Area*, submitted December 20, 2017) includes emissions for BWI Marshall including: 2,028.54 tons/year of NO_X, 229.92 tons/year of SO_X, 57.07 tons/year of $PM_{2.5}$, and 448.99 tons/year of VOC, which were much higher than modeled emissions from the Airport, including the project emissions (*Appendix B1b: Technical support document for the development of area, and marine, airport, and railroad source (non-Nonroad model, MOVES2014a sources) emissions inventories for Maryland, 6/19/17*). As a result, the air quality conclusions of the 1998 EA relating to operational emissions remain valid.

Table 4.5

2020 Airport Operations Emissions (tons per year)

Emission Type	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
2020 Airport Operations[1]	1,465	1,116	107	21	18	197
2020 Midfield Cargo Facility Improvements Operations (2017 Expansion and 2018 Proposed)						
Aircraft, APU, GSE[2]	43	66	6	0.3	0.3	4
Surface Vehicle (On-Airport)[3]	0.5	1	0.004	0.05	0.04	0.001
Total with 2018 Proposed Action Associated Emissions	1,509	1,183	113	21	18	201
Potential BWI Marshall Construction in 2020[4]	23	7	0.03	41	4	2
Additional Emissions in 2020	67	74	6	41	4	6
De Minimis Levels	--	*100*	*100*	--	*100*	*50*
Exceed De Minimis?	--	*No*	*No*	--	*No*	*No*

Note: Airport operations include emissions from the following: aircraft, auxiliary power units, ground support units, on-airport roadways, curbsides, parking lots, boilers, generators, and training fires.

Sources:
[1] KBE analysis, *BWI Air Quality and GHG Management Plan Update (August 2017*). Inventory did not include 2017 Expansion.
[2] AEDT, HNTB analysis, September 2018. Includes emissions for entire Midfield Cargo area and therefore overestimates emissions for the 2018 Proposed Action.
[3] USEPA's MOVES "rate per distance" emission factors, HNTB analysis, 2018.
[4] *Draft EA and Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport,* Table 5.1-2 (January 2018).

The 1998 EA compared overall operations projected for the Airport with the overall operations included in the 1994 BWI Marshall Air Quality Plan. Emission values specifically for Alternative 4R included in the 1998 EA were not developed. However, the emissions included in the 1994 BWI Marshall Air Quality Plan for the level of operations expected in 2015 were higher than those estimated in this Technical Report for the year 2020 for all criteria pollutants. **Table 4.6** compares the forecasted operations and emissions from the 1998 EA to this Technical Report. This comparison also shows that completion of the Midfield Cargo Facility does not change the conclusions of the 1998 EA.

Table 4.6

Comparison to 1998 EA Airport Operations Emissions

Emission Type	Operations	Emissions (tons/year)					
		CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
1998 EA - 2015 Operations[1]	376,904	2,059	1,321	455	149[2]		569
Tech Report - 2020 Operations	277,181	1,509	1,183	113	21	18	201

Sources:
[1] 1998 EA emissions are based on the 1994 BWI Marshall Air Quality Plan emissions for 2006 Build scenario. The operational levels associated with the 1998 EA Alternatives (376,904) in 2015 were well within the operational levels associated with the 2006 Build Scenario in the 1994 BWI Marshall Air Quality Plan for (376,695).
[2] Particulate matter emissions were not broken into PM_{10} and $PM_{2.5}$ emissions in the 1994 BWI Marshall Air Quality Plan.

Construction Emissions

A construction emissions analysis was completed for the project using the Airport Construction Emissions Inventory Tool (ACEIT).

Project types modeled for the midfield improvements include the following:

- Cargo Apron
- Taxiway
- Building (a combination of two-100,000 SF building project types)
- Parking Lot (represents all vehicle pavement and truck staging area)
- Fuel Tanks
- Runway Rehabilitation (represents the mill and overlay of existing apron and taxilane area)

To be conservative, all default construction activities and diesel equipment were selected for project types, with the exception of identifying pavement types. Default ACEIT construction activities includes both concrete and asphalt placement for pavement project types. Cargo apron and fuel tank (for tank pad) activities were updated in the model to include concrete placement. Taxiway, Parking Lot, and Runway Rehab (mill and overlay) activities were updated in the model to include asphalt placement.

Table 4.7 summarizes the construction emissions inventory for the two construction years modeled (2018 and 2019). The results from the ACEIT analysis indicate that construction emissions would not exceed the *de minimis* threshold levels and therefore do not require a conformity determination or re-determination.

It should be noted that 98% of the calculated VOC emissions are a result of fugitive emissions from asphalt drying. ACEIT includes a default application rate of 1.81 l/m^2 of liquefied asphalt. The *Hot Mix Asphalt (HMA) Paving Handbook* (FAA AC 150/5370-14B) includes typical asphalt emulsion application rates for various activities. For new HMA pavements, the prime coat application rate ranges from 0.651 l/m^2 (for very tight base surfaces) to 1.81 l/m^2 (for very porous base surfaces). For existing HMA pavements, the tack coat application rate (specifically for milled surfaces) is a maximum of 0.555 l/m^2 (calculated from a maximum 0.361 l/m^2 residual asphalt content and assumed 35% water content).

ACEIT's default application rate of 1.81 l/m^2 assumes all asphalt is applied on very porous base surfaces, and does not differentiate an application rate for new HMA pavements vs. existing HMA pavements (which have a much lower application rate). Therefore, the VOC emissions calculated in ACEIT are a very conservative estimate of emissions. ACEIT allows the user to modify default fugitive emission inputs. When the model is modified to include an application rate of 0.651 l/m^2 for new HMA pavements, and 0.555 l/m^2 for mill and overlay, the resulting VOC emissions are calculated as 13.3 and 12.6 tons for 2018 and 2019, respectively.

Appendix A, Air Quality includes the ACEIT model input and output (for default and modified asphalt application rates), and preliminary construction schedule.

Table 4.7

Construction Operations Emissions (tons per year)

Year	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
2018	6.8	5.6	0.05	1.4	0.24	40.4
2019	19.1	15.4	0.08	2.6	0.77	29.3
De Minimis Levels	--	*100*	*100*	--	*100*	*50*
Exceed De Minimis?	--	*No*	*No*	--	*No*	*No*

Sources : HNTB analysis, June 2018 (See *Appendix A, Air Quality*), and EPA, *De Minimis* Emission Levels, https://www.epa.gov/general-conformity/de-minimis-emission-levels

***Conclusion*:** There would be no significant air quality impacts associated with the Midfield Cargo Facility Improvements (2018 Proposed Action), therefore, no conformity re-determination is needed and no air quality mitigation measures are required for this project, however construction emission mitigation measures would be implemented in an effort to further reduce emissions, as discussed in *Section 5, Mitigation*.

Table 4.8

Summary of Potential Changes to Air Quality

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Midfield Improvements 2018 Proposed Action**		
No significant impact.	No significant impact. *Operations Emissions*: The additional Airport operations emissions with the proposed Midfield Improvements would not exceed *de minimis* levels and therefore no General Conformity determination or re-determination is necessary under the CAA. The emissions associated with completing the Midfield Cargo Facility would be less than those estimated in the 1998 EA for overall airport generated emissions. See Tables 4.5 and 4.6 for updated impact analysis. *Construction*: Construction emissions would not exceed the *de minimis* threshold levels and therefore do not require a conformity determination or re-determination. See Table 4.7 for updated impact analysis.	N	N/A

4.4.2 Biological Resources (including fish, wildlife and plants)

Summary of 1998 EA – Alternative 4R

The 1998 EA describes the impacts to *Biotic Communities*, and *Endangered and Threatened Species of Flora and Fauna* resulting from Alternative 4R.

Biotic Communities – Alternative 4R would impact 105 acres of forest and 115 acres of mowed grassland. Approximately 48 acres of these impacts were due to impacts from the proposed stockpiling of 2.4 million cubic yards of excess material generated by the earthwork to construct this alternative.

After construction, the stockpile sites would be graded and seeded. Impacts were to be coordinated with MDNR for compliance with the 1991 Forest Conservation Act (FCA). The Master Reforestation Plan that was being prepared at the time outlined the required replanting and preservation techniques for each project at BWI Marshall. An individual Forest Conservation Plan (FCP) was also coordinated with MDNR and was found to comply with the FCA. The MAA had sufficient reforestation credit at the time to compensate for the impacts associated with a new air cargo complex.

Endangered and Threatened Species of Flora and Fauna – There were no known rare, threatened or endangered (RTE) species on the existing or planned development areas of Alternative 4R.

***Conclusion*:** Due to the impact to forest and mowed grassland, development of an FCP was required to identify the impacts and necessary reforestation to comply with the FCA. There would be no significant impacts to endangered or threatened species associated with Alternative 4R, therefore, no mitigation measures were required for this project.

MIDFIELD CARGO FACILITY IMPROVEMENTS (2018 PROPOSED ACTION)

The Study Area was graded and prepared for development following the 1998 EA/FONSI and is currently mowed and maintained for airfield operations. According to the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) tool, there are no threatened, endangered, or candidate species present in the Study Area. There are also no Critical habitats, National Wildlife Refuges, or Fish Hatcheries present in the Study Area. Refer to ***Appendix B, USFWS IPaC.***

Certain birds are protected under the Migratory Bird Treaty Act (MBTA); any activity that results in the take of migratory birds or eagles is prohibited unless authorized by the USFWS. The project is confined to an existing cargo area of the Airport and either paved or currently mowed and maintained and would not impact birds protected by the Migratory Bird Treaty Act. In accordance with the BWI Marshall Wildlife Hazard Management Plan (WHMP) (Approved April 25, 2018), habitat management control efforts would be implemented to actively reduce wildlife attractions to the project areas during and after construction.

***Conclusion*:** There would be no significant impacts to Biological Resources (including fish, wildlife and plants), or any biotic communities such as forested area associated with the Midfield Cargo Facility Improvements (2018 Proposed Action), therefore, no mitigation measures are required for this project.

Table 4.9

Summary of Potential Changes to Biological Resources

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Midfield Improvements 2018 Proposed Action**		
Biotic Communities – No significant impact with mitigation. *Endangered and Threatened Species* –No significant impact.	No significant or non-significant impacts associated with the revision to the 1998 EA Proposed Action.	N	N/A

4.4.3 CLIMATE

SUMMARY OF 1998 EA

Evaluation of impacts to Climate was not required for the EA because it was not a resource category identified in FAA Order 1050.1D/5050.4A.

MIDFIELD CARGO FACILITY IMPROVEMENTS (2018 PROPOSED ACTION)

Research has shown there is a direct correlation between fuel combustion and greenhouse gas (GHG) emissions. According to the 1050.1F Desk Reference, "GHG emissions result from anthropogenic sources including the combustion of fossil fuels. GHGs are defined as including carbon CO_2, methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). CO_2 is the most important anthropogenic GHG because it is a long-lived gas that remains in the atmosphere for up to 100 years. Climate change is a global phenomenon that can have local impacts...Research has shown there is a direct correlation between fuel combustion and GHG emissions."[9]

No quantitative data on GHG emissions is available for the Study Area, however GHG emissions can be discussed qualitatively in relation to the air quality impacts. The Proposed Action would not result in exceedances of the applicable *de minimis* threshold for criteria pollutants, therefore it is assumed that there would be a minimal increase of emissions of greenhouse gases during the short-term construction period. Notably, there are no *de minimis* thresholds by which you could evaluate the magnitude of the increase in greenhouse gases.

***Conclusion*:** There would be no significant impacts to Climate associated with the Midfield Cargo Facility Improvements (2018 Proposed Action), therefore, no mitigation measures are required for this project.

Table 4.10

Summary of Potential Changes to Climate

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Midfield Improvements 2018 Proposed Action**		
N/A	No significant impact. The Proposed Action would not result in exceedances of the applicable *de minimis* threshold for criteria pollutants, therefore it is assumed that there would be a minimal increase of emissions of greenhouse gases during the short-term construction period.	N	N/A

4.4.4 COASTAL RESOURCES

SUMMARY OF 1998 EA – ALTERNATIVE 4R

The *Coastal Zone Management Program* and *Coastal Barriers* of the 1998 EA discuss these resources as they relate to Alternative 4R.

Coastal Zone Management Program – The Alternative 4R development was located within the Maryland Coastal Zone, as defined by the Maryland Coastal Zone Management Program. In a response dated January 6, 1998, the MDE provided concurrence that the proposed activities were consistent with the State's CZMP, as required by Section 307 of the Federal CZMA, as amended. The concurrence was conditioned on the applicant's receipt of a Nontidal Wetlands and Waterways permit and adherence to the conditions of the permit, which was received February 13, 1998.

Coastal Barriers – The Alternative 4R development was not located in the Coastal Barrier Resources System and will not impact coastal barriers.

***Conclusion*:** There would be no significant impacts to the Coastal Zone Management Program or Coastal Barriers associated with Alternative 4R, therefore, no mitigation measures were required for this project.

MIDFIELD CARGO FACILITY IMPROVEMENTS (2018 PROPOSED ACTION)

Coastal Zone Management Program – The Study Area is in Anne Arundel County, which continues to be considered part of Maryland's Coastal Zone, thus MAA is required to comply with the regulations set forth and administered by MDE and MDNR. MAA contacted MDE to request a Coastal Zone Management Consistency determination for the project. MDE responded June 13, 2018 that the project[10] is consistent with the Maryland CZMP, as required by Section 307 of the Coastal Zone Management Act. Correspondence with MDE is included in ***Appendix C, Coastal Resources***.

Coastal Barriers and Other – The project would not occur in or impact the Coastal Barrier Resource System and is not located in a National Marine Sanctuary or a Wilderness Area.

***Conclusion*:** Confirmation that the Midfield Cargo Facility Improvements (2018 Proposed Action) remains consistent with the CZMP, as required by Section 307 of the CZMA, was requested and received. The improvements would be consistent with the CZMA and thus no mitigation measures are required for this project. See *Appendix C, Coastal Resources.*

Table 4.11

Summary of Potential Changes to Coastal Resources

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Midfield Improvements 2018 Proposed Action**		
Coastal Zone Consistency Determination received; conditions of Nontidal Wetlands and Waterways permit applicable.	No significant impact. Coastal Zone Consistency Determination received. No impacts to Coastal Resources associated with the revision to the 1998 EA Proposed Action.	N	N/A

4.4.5 HAZARDOUS MATERIALS, SOLID WASTE AND POLLUTION PREVENTION

SUMMARY OF 1998 EA – ALTERNATIVE 4R

There is no hazardous materials section in the 1998 EA and information about hazardous materials is not included in the EA. The primary sources of solid waste produced by Alternative 4R development were expected to be trees and excavated earth needed in order to construct the development. Alternative 4R would require the clearing of approximately 220 acres of land, including 55 acres of stockpile area and generation of approximately 2.4 million cubic yards of excess fill material. The fill material would not require off-site hauling, but would be stockpiled on-site.

The EA stated that all solid waste generated by the proposed action would be disposed of in the Annapolis sanitary landfill. However, it was determined that this landfill did not have a current refuse disposal permit from the Waste Management Administration. Therefore, as a mitigation measure, the FONSI stated that the Airport Sponsor must ensure that all solid waste would be disposed of in a facility that has a current refuse disposal permit issued by the Waste Management Administration. *Update: The disposal location during construction of the initial 1998 EA improvements is not known, however, Airport waste is generally hauled to the Millersville Landfill in Anne Arundel County, Maryland.*

Conclusion: There would be no significant impacts to Hazardous Materials or Solid Waste associated with Alternative 4R, however, as mitigation, the MAA was to ensure that all solid waste would be disposed of in a facility that had a current refuse disposal permit issued by the Waste Management Administration.

MIDFIELD CARGO FACILITY IMPROVEMENTS (2018 PROPOSED ACTION)

Hazardous Materials – There are no National Priorities List (NPL) sites or facilities at BWI Marshall Airport, or the vicinity. During construction of the 1998 EA improvements, petroleum-contaminated soils were encountered at the project site. Any soils that were encountered that could not be aerated and returned to usable condition on site were treated at Soil Safe[11] in Brandywine, Maryland.

The 2018 Proposed Action would store fuel (e.g. Jet-A) in fuel tanks and as is currently the case, spent glycol would continue to be stored temporarily in movable tanks until it is transported to other areas of the Airport for disposal. To the extent that hazardous materials would be used on site, they would continue to be handled, used, stored, transported, and disposed of pursuant to applicable State, federal, and local regulations.

Solid Waste and Pollution Prevention – The operation of the Midfield Cargo Facility Improvements, once constructed, would not generate additional solid waste.

<u>Construction</u>
Minimal excavation is expected for completion of the project, as the area was previously graded, however, if contaminated soils or hazardous wastes are encountered during construction and cannot be aerated, they would be disposed of at a licensed facility in accordance with State and local regulations for any disposal of materials.

Any solid waste generated during construction and operation of the project would be properly disposed of in a manner compliant with all federal, State, and local regulations at a permitted solid waste facility, or recycled, if possible. Airport waste is generally hauled to the Millersville Landfill, located approximately 10 miles from BWI Marshall Airport, however it is dependent on the waste hauler chosen for the project.

Conclusion: There would be no significant environmental impacts related to hazardous materials or solid waste associated with the Midfield Cargo Facility Improvements (2018 Proposed Action), therefore, no mitigation measures are required for this project.

Table 4.12

Summary of Potential Changes to Hazardous Materials, Solid Waste and Pollution Prevention

Impacts		**Change (Y/N)**	**If yes, proposed mitigation**
1998 EA Alternative 4R	**Midfield Improvements 2018 Proposed Action**		
No significant impact with mitigation.	No significant impact. Contaminated soils may exist in the Study Area, however minimal excavation is expected as the area was previously graded and much of it paved. If contaminated soils are encountered that cannot be aerated for use, they would be disposed of in a licensed facility. No other impacts to Hazardous Materials, Solid Waste and Pollution Prevention associated with the revision to the 1998 EA Proposed Action.	N	N/A

4.4.6 HISTORICAL, ARCHITECTURAL, ARCHEOLOGICAL, AND CULTURAL RESOURCES

SUMMARY OF 1998 EA – ALTERNATIVE 4R

In 1994, the MAA undertook the preparation of a comprehensive Historic Preservation Plan ("1996 HPP"), for the entire Airport property in order to assist in National Historic Preservation Act (NHPA) compliance for future development projects that would involve federal participation. The studies for the HPP included intensive coordination with the Maryland Historical Trust (MHT), archival research, and extensive field work. The results of this effort determined that while no historical structures existed within the project area, there was an early 20th century burial ground known as Friendship Cemetery which was studied in detail during the planning process to construct the new Aircraft Rescue and Firefighting (ARFF) Building south of Runway 10-28.

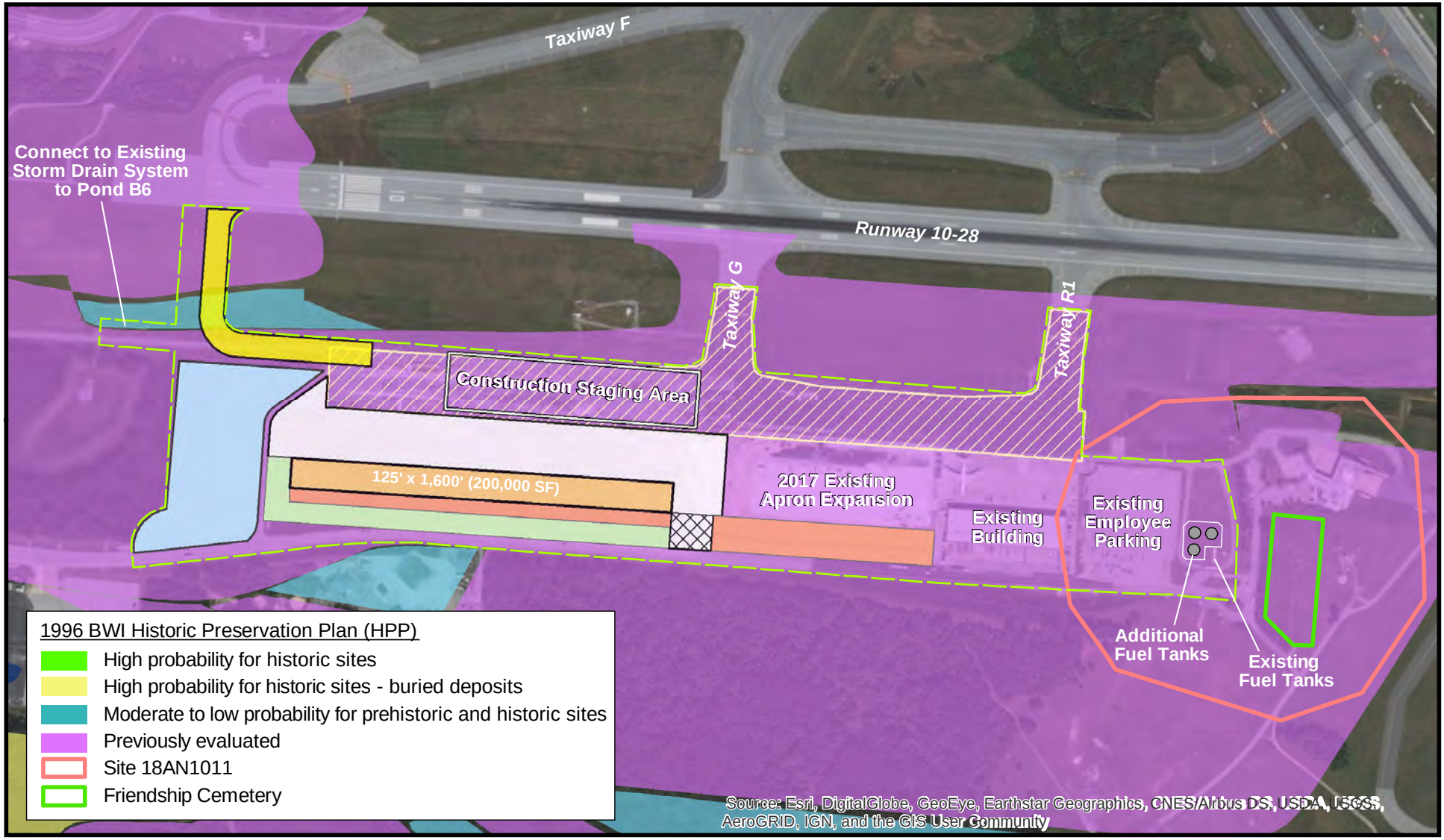
During coordination with the MHT for the original Proposed Action, design changes to one of the original alternatives (Alternative 4) were carried out based on input from the MHT in order to establish the preferred alternative (Alternative 4R). Based on these design changes, a Phase I and Phase II archaeological survey was conducted in the Area of Potential Effect (APE). This survey identified five archaeological sites. Of the five sites, only one was determined to be eligible for listing in the National Register of Historic Places (NRHP). A June 1997 letter from the MHT confirmed the status of this site (18AN1051, a mid- to late 19th century farmstead) and further stated that the air cargo facility would have no effect on this archaeological site. The spoil area in the vicinity of the site was reconfigured to avoid the site for Alternative 4R.

Conclusion: There would be no significant adverse impact associated with Alternative 4R, however, as mitigation, the 1998 EA/FONSI stated that a fence would be placed around the archaeological site during and after construction.

MIDFIELD CARGO FACILITY IMPROVEMENTS (2018 PROPOSED ACTION)

All project areas in the Study Area are either developed or were graded/prepared for future construction following the 1998 EA, and the project is in an area of the Airport that is largely developed and actively used for cargo operations. The Midfield Cargo Facility Improvements (2018 Proposed Action) were compared to the HPP resource areas, as illustrated on **Figure 5**. As shown, there is one project component (the proposed taxiway connection) that is not within the HPP's "previously evaluated (and thus no additional study required)" or having "no probability of sites." This area has been disturbed for grading purposes between Runway 10/28 and the apron edge with the construction of the initial Midfield Cargo facilities, however because the proposed taxiway connection is in an area identified on the HPP as having "moderate to low probability for prehistoric and historic sites," coordination with MHT was conducted. Coordination with MHT noted that a maximum of 3.5' of disturbance below the surface would be assumed for this project, with potential for 6-7' below the surface in the location where a storm drain may be needed.

In response to the information received from MDOT MAA, the MHT responded on June 6, 2018, that pursuant to Section 106 of the NHPA and the Maryland Historical Trust Act of 1985, the MHT concurred with MDOT MAA's determination that the undertakings will have no effect on historic properties. Refer to ***Appendix D, Cultural Resources*** for coordination and concurrence from the MHT.[12] After this coordination was completed it was determined that the 2018 Proposed Action would be considered by the FAA through a written re-evaluation of the 1998 EA. Due to this decision, coordination with MHT was undertaken again to describe the type of NEPA documentation to be used, to revise the project description and to include the potential for indirect impact on historic resources due to the difference in noise exposure between the 1998 EA Proposed Action (Year 2015) DNL 65+ dB contour and the 2018 Proposed Action (Year 2020) DNL 65+ dB contour.



LEGEND

- Study Area
- Proposed Apron Pavement (11.0 Acres)
- Proposed Building (200,000 SF)
- Proposed Truck Parking/Staging Area Pavement (7.6 Acres)
- Proposed Taxiway (2.8 Acres)
- Proposed Vehicle Parking (5.4 Acres)
- Proposed Vehicle Pavement (3.8 Acres)
- Proposed Truck Staging Area (0.6 Acres)
- Mill and Overlay (21.1 Acres)

2018 Proposed Action and 1996 HPP Cultural Resources
Figure 5

N

0 150 300 600 Feet

There were no historic resources within the area of noise change when comparing the two contours. See detailed discussion of noise analysis in *Section 4.4.9, Noise and Noise-Compatible Land Use*. The project would not impact tribal land or land of interest to tribes. On September 24, 2018, the MHT again concurred with MDOT MAA's determination that the undertaking will have no effect on historic properties. Refer to *Appendix D, Cultural Resources* for coordination and concurrence from the MHT.

Construction

No impacts to historic resources are anticipated, however, if during construction, any unmarked burial sites, or prehistoric or historic artifacts are encountered, construction would stop and the MAA would follow the procedures established in the BWI Marshall Airport HPP.

Conclusion: There would be no adverse effects related to historic, architectural, archeological, or cultural resources associated with the Midfield Cargo Facility Improvements (2018 Proposed Action), therefore, no mitigation measures are required for this project.

Table 4.13

Summary of Potential Changes to Historical, Architectural, Archeological, and Cultural Resources

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Midfield Improvements 2018 Proposed Action**		
No significant adverse impact.	No adverse effect. MHT concurred on September 24, 2018, that the undertaking associated with the revision to the 1998 EA Proposed Action will have no effect on historic properties.	N	N/A

4.4.7 LAND USE

SUMMARY OF 1998 EA – ALTERNATIVE 4R

As the development of Alternative 4R would be entirely contained on Airport property, there would be no direct impacts to land uses adjacent to the Airport. The proposed project was consistent with Anne Arundel County's General Development Plan. Additionally, the EA stated that the proposed project would enhance the area's position as a regional industrial center in the Baltimore region and would be likely to stimulate additional economic activity around the Airport.

Conclusion: There would be no significant impacts to land use compatibility associated with Alternative 4R, therefore, no mitigation measures were required for this project.

MIDFIELD CARGO FACILITY IMPROVEMENTS (2018 PROPOSED ACTION)

The Midfield Cargo Facility Improvements would occur in an existing cargo area of the Airport, near Aviation Support Areas, and would be consistent with the designated land uses at BWI Marshall Airport. The Study Area is designated as "Aviation Support" on the approved ALP. The majority of the Airport is still zoned Residential, which does not reflect the current use. The Airport's land uses are consistent with the County's most up-to-date General Development Plan (2009). The Airport is bordered by industrial, residential, open space, and small areas of commercial zones. Industrial zones are concentrated in the area west of the airport. Residential zones are scattered around the airport and are concentrated northeast of the airport.

***Conclusion*:** There would be no significant impacts to land use associated with the Midfield Cargo Facility Improvements (2018 Proposed Action), therefore, no mitigation measures are required for this project.

Table 4.14

Summary of Potential Changes to Land Use

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Midfield Improvements 2018 Proposed Action**		
No significant impact.	No significant impact. No impacts to Land Use Compatibility associated with the revision to the 1998 EA Proposed Action.	N	N/A

4.4.8 NATURAL RESOURCES AND ENERGY SUPPLY

SUMMARY OF 1998 EA –ALTERNATIVE 4R

The 1998 EA stated that increases in energy consumption directly and indirectly caused by the proposed expansion of air cargo facilities at the Airport would not result in significant impacts to energy supply or natural resources because (1) Baltimore Gas and Electric (BGE) had demonstrated sufficient capacity to provide for increased consumption of electric power associated with the proposed additional facilities; and (2) the proposed project would not involve the use of any unusual natural resources, or those in short supply. Additionally, there would be no interference with the Airport's existing or planned utilities or circuits/facilities.

Conclusion: There would be no significant impacts to natural resources and energy supply associated with Alternative 4R, therefore, no mitigation measures were required for this project.

MIDFIELD CARGO FACILITY IMPROVEMENTS (2018 PROPOSED ACTION)

Once operational, the project would require additional energy use to provide lighting, electricity, and potentially water, heating, and air conditioning, to the proposed warehouse/cargo processing building. Additional exterior lighting for the Midfield Cargo Facility Improvements and the taxiway connection lighting would also be needed. The change in net energy demand required would not amount to a significant percent of total Airport use and would not create a substantial increase or decrease in demand for local resources and utilities or strain the capacity/supply of these resources/ utilities to the meet the additional demand.

The new taxiway connection would allow aircraft more options to access the Midfield Cargo Facility, however any changes would be minimal and would not noticeably alter fuel usage. Similarly, vehicles would have more options for movement and parking within the facility, however changes to their traffic patterns would not noticeably alter fuel usage.

Fuel will be stored in the proposed additional fuel tanks once in operation. It is assumed the fuel will be brought in by an outside supplier and transferred into the fuel tanks for distribution to the Midfield Cargo Facility only. The anticipated increase in fuel storage capabilities required by the additional cargo activity would not amount to a significant percent of overall fuel usage locally or regionally. The additional fuel supply/usage would not exceed available supply. Glycol would continue to be collected using GRVs, stored temporarily in movable tanks, and transported to other areas of the Airport for disposal.

Additionally, the Proposed Action would not involve the use of any unusual or scarce materials and would not cause a demand for the use of any unusual natural resource or the use of any resource that is in short supply. There are no known deposits of valuable natural resources located on or near the Study Area that would be affected by the Proposed Action and the Proposed Action would not cause a substantial increase in demand for local resources and utilities or strain the capacity/supply of these resources/utilities to the meet the additional demand.

Construction

During construction activity, fuel would be required for construction vehicles and equipment, however the amount needed would not amount to a significant percent of overall fuel usage locally or regionally.

***Conclusion*:** There would be no significant impacts to natural resources or energy supply associated with the Midfield Cargo Facility Improvements (2018 Proposed Action), therefore, no mitigation measures are required for this project.

Table 4.15

Summary of Potential Changes to Natural Resources and Energy Supply

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Midfield Improvements 2018 Proposed Action**		
No significant impact.	No significant impact. No impacts to Natural Resources and Energy Supply associated with the revision to the 1998 EA Proposed Action.	N	N/A

4.4.9 NOISE AND NOISE-COMPATIBLE LAND USE

SUMMARY OF 1998 EA – ALTERNATIVE 4R

Noise analysis was conducted to compare between the Build and No Build Scenarios during selected years. Eight scenarios were developed: 1995 Base Year, 1999 No Build, 1999 Build-Expected Growth, 1999 Build-High Growth, 2015 No Build, 2015 Build-Expected Growth, 2015 Build-High Growth, and 2015 Build-High Growth with a cumulative impact scenario with proposed parallel 10-28 Runway. The Build scenarios assumed growth in air cargo operations only if the proposed facilities were built.

It was determined that the noise effects of the proposed cargo facility were not considered significant. Noise contours increased by between 0.2 and 0.5 dBA, assuming the “worst case” scenario in 2015. These levels were well below the significance threshold of a 1.5 dBA increase in noise sensitive areas within a DNL 65 area as established by the FAA. Ground noise from the proposed Midfield Cargo Facility (taxiing, engine start-up, use of auxiliary power units, etc.) was also evaluated and would not be expected to cause any significant noise impacts in the closest residential areas to the south of the Airport. During construction, short term effects of noise would occur and would be controlled by construction contract specifications.

Conclusion: There would be no significant impacts to noise exposure associated with Build Alternative 4R, therefore, no mitigation measures were required for this project.

MIDFIELD CARGO FACILITY IMPROVEMENTS (2018 PROPOSED ACTION)

This Technical Report considers the noise effects of the Midfield Cargo Facility Improvements, based on the Midfield Cargo Operator's estimates of additional aircraft operations that they would accommodate. Prior to receiving the approval to use detailed operator information the MDOT MAA completed an analysis of potential impacts using general planning assumptions. This initial analysis is included in ***Appendix E, AEDT Noise and Emissions Analysis using General Planning Assumptions*****.** The initial noise analysis was more conservative, i.e., higher impact associated with the Proposed Action, because higher aircraft utilization rates were assumed for the new parking positions than were subsequently provided by the Midfield Cargo Operator. However, the conclusions from that initial noise analysis were the same as those reached with the more specific data.

The Proposed Action completes the original vision of the Midfield Cargo Facility and is expected to accommodate increased cargo operations based on current forecast operator demand. The operator at the existing (including the 2017 six-acre expansion) Midfield Cargo Facility accounted for slightly over 1,600 aircraft operations during the last four months of 2017, the typical air cargo busy period. This represents about 1.95 operations per day per aircraft parking position (around one average turn per day) but the demand was still sufficient to encourage the operator to request additional ramp and building capacity. Increasing utilization of the existing Midfield Cargo Facility is not practical because existing utilization (operations per parking position) is already near the maximum at comparable airports. Further, there is not sufficient building or ramp capacity to allow the coordinated, simultaneous sort operation contemplated by the proposed Midfield Cargo Operator. Likewise, adding operations at non-Midfield facilities is not practical because the lack of a consolidated facility would significantly complicate cargo sorting operations and because of the potential conflicts with other all-cargo operations.

To determine if the 1998 EA analysis of noise and noise-compatible land use is still substantially valid, and to confirm that there are no significant new circumstances or information relevant to environmental concerns and bearing on the proposed action or its impacts, the 2018 Proposed Action was compared to not completing the proposed improvements (i.e., 2018 No Action). The following defines the operations forecast used for the 2018 No Action and 2018 Proposed Action and compares the operations defined in the 1998 EA Proposed Action.

2018 No Action Operations Forecast

Table 4.16 summarizes the 2018 No Action Alternative forecast representing estimated 2020 average annual day (AAD) aircraft operations. Operations attributable to existing parking positions at the Midfield facility are included in the 2018 No Action Alternative. These operations had not been not envisioned when the operational forecast and fleet mix was developed for the *Draft EA and Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport* (January 2018) and therefore had not been incorporated in that EA analysis. Likewise, these operations were not explicitly envisioned in the 2017 Re-Evaluation, which based growth projections on historical growth rates and national cargo projections. The 2018 No Action forecast projects 273,652 annual operations in 2020 (269,182 annual 2020 operations from the *Draft EA and Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport* plus 4,380 annual operations attributable to the existing Midfield Cargo parking positions, as provided by the Midfield Cargo Operator).

Table 4.16

No Action Average Annual Day Operations Forecast

	BWI 2016-2020 Improvements EA[1]			Existing Midfield Facility[2]			2018 No Action Alternative[3]		
	Arrivals	**Departures**	**Total**	**Arrivals**	**Departures**	**Total**	**Arrivals**	**Departures**	**Total**
Daytime									
Heavy Jets	3.8	2.7	6.5	3.0	4.0	7.0	6.8	6.7	13.5
Other Large Jets	264.9	262.2	527.1				264.9	262.2	527.1
Other (Light Jets, GA, Military)	41.6	41.5	83.1				41.6	41.5	83.1
Total	**310.3**	**306.4**	**616.7**	**3.0**	**4.0**	**7.0**	**313.3**	**310.4**	**623.7**
Nighttime									
Heavy Jets	3.3	4.4	7.6	3.0	2.0	5.0	6.3	6.4	12.6
Other Large Jets	50.6	53.3	103.8				50.6	53.3	103.8
Other (Light Jets, GA, Military)	4.6	4.7	9.2				4.6	4.7	9.2
Total	**58.4**	**62.3**	**120.7**	**3.0**	**2.0**	**5.0**	**61.4**	**64.3**	**125.7**
Total									
Heavy Jets	7.1	7.1	14.1	6.0	6.0	12.0	13.1	13.1	26.1
Other Large Jets	315.5	315.5	631.0	0.0	0.0	0.0	315.5	315.5	631.0
Other (Light Jets, GA, Military)	46.2	46.2	92.3	0.0	0.0	0.0	46.2	46.2	92.3
Total	**368.7**	**368.7**	**737.4**	**6.0**	**6.0**	**12.0**	**374.7**	**374.7**	**749.4**

[1]*Draft EA and Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport*.
Activity levels for 2020.

[2] Estimated aircraft operations for existing cargo parking positions provided by Midfield Cargo Operator. Activity levels for 2020.

[3] BWI 2016-2020 Improvements EA plus Existing Midfield Facility operations.

2018 Proposed Action Operations Forecast

Table 4.17 provides the Midfield Cargo Operator's estimates of average annual day operations for 2020 if the proposed expansion is implemented. These operations include both weekday and weekend operations and represent an annual average. The operator indicated that the Boeing 767-300 aircraft would be the predominant aircraft, with some operations also performed by Boeing 767-200 and Boeing 737 aircraft. It did not provide a numerical breakdown of its anticipated fleet mix; therefore, Midfield cargo operations were assumed to be performed by the Boeing 767-300, the anticipated predominant aircraft. The operations attributable to proposed parking positions are the induced/accommodated operations resulting from the 2018 Proposed Action.

Based on the forecasting estimates in Table 4.17, the project is expected to accommodate an additional 3,650 annual operations. Under the 2018 Proposed Action forecast, the total annual operations in 2020 would be 277,212 (3,650 operations added to the 2018 No Action year 2020 forecast operations). The FAA's January 2018 Terminal Area Forecast (TAF) projects 277,503 annual operations for BWI Marshall Airport in 2020 and therefore anticipated BWI Marshall Airport operations, including the Midfield activity, remain very consistent with the TAF.

Table 4.17

Proposed Action Average Annual Day Operations Forecast

	2018 No-Action Alternative[1]			Proposed Parking Positions[2]			2018 Proposed Action[3]		
	Arrivals	**Departures**	**Total**	**Arrivals**	**Departures**	**Total**	**Arrivals**	**Departures**	**Total**
Daytime									
Heavy Jets	6.8	6.7	13.5	4.0	2.0	6.0	10.8	8.7	19.5
Other Large Jets	264.9	262.2	527.1				264.9	262.2	527.1
Other (Light Jets, GA, Military)	41.6	41.5	83.1				41.6	41.5	83.1
Total	**313.3**	**310.4**	**623.7**	**4.0**	**2.0**	**6.0**	**317.3**	**312.4**	**629.7**
Nighttime									
Heavy Jets	6.3	6.4	12.6	1.0	3.0	4.0	7.3	9.4	16.6
Other Large Jets	50.6	53.3	103.8				50.6	53.3	103.8
Other (Light Jets, GA, Military)	4.6	4.7	9.2				4.6	4.7	9.2
Total	**61.4**	**64.3**	**125.7**	**1.0**	**3.0**	**4.0**	**62.4**	**67.3**	**129.7**
Total									
Heavy Jets	13.1	13.1	26.1	5.0	5.0	10.0	18.1	18.1	36.1
Other Large Jets	315.5	315.5	631.0				315.5	315.5	631.0
Other (Light Jets, GA, Military)	46.2	46.2	92.3				46.2	46.2	92.3
Total	**374.7**	**374.7**	**749.4**	**5.0**	**5.0**	**10.0**	**379.7**	**379.7**	**759.4**

[1]Table 4.16.
[2] Estimated aircraft operations for proposed cargo parking positions provided by Midfield Cargo Operator. Activity levels for 2020.
[3] No-Action Alternative plus Proposed Midfield Facility operations.

As a crosscheck, the above assumptions were compared with current cargo ramp utilization rates at BWI Marshall Airport and other comparable airports, shown in **Table 4.18**. For airports where the specific parking positions were unknown the acreage allotted to cargo apron was considered.

Table 4.18

Cargo Ramp Utilization Rates at Comparable Airports

Airport	Cargo Ramp Capacity	2017 All-Cargo Ops	Utilization Rate (annual all-cargo operations)	BWI New Midfield Cargo Facility Operations Using Utilization Rate from Comparable Airport
BWI	25 parking positions	8,042	321.7 ops/position	2,252
ATL	28 parking positions	13,362	477.2 ops/position	3,341
LAS	16 parking positions	4,394	274.6 ops/position	1,922
CLT	50 acres	3,990	79.8 ops/acre	878
RIC	17 acres	3,768	218.8 ops/acre	2,407
TPA	14 acres	5,118	361.3 ops/acre	3,975

Sources: BWI Marshall Airport Master Plan, 2011, US DOT T100 database, individual airport websites, and HNTB analysis, August 2018.

The utilization rates from the comparable airports were separately applied to the ramp capacity of the proposed new Midfield Cargo Facility (7 parking positions and 11 acres) to develop alternative estimates of annual operations associated with the new facility. Of these, TPA had the highest utilization rate, and if applied to the acreage proposed for the new Midfield Cargo Facility, would generate an estimate of 3,975 annual operations, slightly higher than the 3,650 operations estimated for the new parking positions by the Midfield Cargo Operator. Utilization rates from the other airports all generate an estimate that is lower than that of the Midfield Cargo Operator. Based on the comparisons, the 3,650 annual operations estimate provided by the Midfield Cargo Operator is considered a reasonable and conservative estimate of the annual operations that would be accommodated by the new facility.

The utilization rates at BWI cargo facilities outside the Midfield Cargo Facility are lower than those at the Midfield Cargo Facility and theoretically suggest that some, but not all of the projected new operations could be accommodated at those facilities. For this to happen, however, the Midfield Cargo Operator would need to split their operations among facilities and thereby incur burdensome operational inefficiencies related to towing aircraft and repeatedly moving equipment and personnel. Modern parcel cargo operations are inherently time sensitive in that aircraft arrive, typically at a similar time so there are multiple aircraft on the ground at the same time, cargo is unloaded, sorted, placed on delivery vehicles and then some time later the reverse is accomplished, and aircraft depart. The Midfield Cargo Operator has identified a need for a consolidated facility so that they can efficiently transfer cargo between aircraft within a tight time schedule.

Table 4.19 compares the total aircraft departures modeled in the 1998 EA with those projected for 2020 and **Table 4.20** compares the all-cargo aircraft departures modeled in the 1998 EA with those currently projected for 2020. Note that the tables present only departures, as the day/night split of aircraft arrivals used in the 1998 EA was not provided in the document. As shown, both the total number of aircraft departures and all-cargo aircraft departures, with the 2018 Proposed Action, are less than had been forecast in the 1998 EA. Although the number of departures accounted for by heavy aircraft such as the Boeing 767 is higher in the revised forecast, the number of nighttime cargo departures is significantly lower. The nighttime estimates in the 1998 EA were based on day/night distributions at the time. The nighttime distributions in this report are based on updated day/night distribution data plus estimates from the Midfield Cargo Operator. Additionally, the fleet mix from the 1998 EA used for the 2015 scenario included Stage II aircraft that are no longer allowed

to operate and the total number of AAD departures under the 2018 Proposed Action (379.7) is substantially less than in the 1998 EA High Scenario (523.0). The cargo activity levels now projected for 2020 represent a reasonable level of activity that is consistent with the assumptions in the 1998 EA.

Table 4.19

Comparison of Average Annual Day Aircraft Departures

	1998 EA 2015 High Growth[1]	BWI 2016-2020 Improvements EA 2020[2]	2018 No Action[3]	2018 Proposed Action[4]
Daytime				
Heavy Jets	10.2	2.7	6.7	8.7
Other Large Jets	262.6	262.2	262.2	262.2
Other (Light Jets, GA, Military)	195.3	41.5	41.5	41.5
Total	468.1	306.4	310.4	312.4
Nighttime				
Heavy Jets	3.4	4.4	6.4	9.4
Other Large Jets	29.4	53.3	53.3	53.3
Other (Light Jets, GA, Military)	22.1	4.7	4.7	4.7
Total	54.9	62.3	64.3	67.3
Total				
Heavy Jets	13.6	7.1	13.1	18.1
Other Large Jets	292.0	315.5	315.5	315.5
Other (Light Jets, GA, Military)	217.4	46.2	46.2	46.2
Total	523.0	368.7	374.7	379.7

[1] Final Environmental Assessment and Finding of No Significant Impact for the Proposed Expansion of Air Cargo Facilities, June 1998. Document did not provide day/night split of aircraft arrivals. Activity levels for 2015 High Growth Scenario.
[2] Draft EA and Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport. Activity levels for 2020.
[3] Table 4.16.
[4] Table 4.17.

Table 4.20

Comparison of Average Annual Day All-Cargo Aircraft Departures

	1998 EA 2015 High Growth[1]	BWI 2016-2020 Improvements EA[2] 2020	2018 No Action[3]	2018 Proposed Action[4]
Daytime				
Heavy Jets				
DC-8	0.6			
DC-8S	0.4			
MD-11	0.4			
B-767-300	0.0	1.1	5.1	7.1
B-767-200	0.0	0.4	0.4	0.4
B-747-400	0.0	0.1	0.1	0.1
A-300-600		0.0	0.0	0.0
Subtotal	1.3	1.7	5.7	7.7
Other Large Jets				
DC-9	0.4			
A-310	1.0			
B-727	1.6			
B-757	0.8	1.0	1.0	1.0
Subtotal	3.7	1.0	1.0	1.0
Other (Light Jets, GA, Military)	1.4	2.6	2.6	2.6
Total	**6.4**	**5.3**	**9.3**	**11.3**
Nighttime				
Heavy Jets	3.4	3.4	5.4	8.4
DC-8	1.4			
DC-8S	0.9			
MD-11	1.0			
B-767-300		2.4	4.4	7.4
B-767-200		0.7	0.7	0.7
B-747-400		0.3	0.3	0.3
A-300-600		0.0	0.0	0.0
Subtotal	3.4	3.4	5.4	8.4
Other Large Jets	9.6	0.3	0.3	0.3
DC-9	1.0			
A-310	2.5			
B-727	4.1			
B-757	1.9	0.3	0.3	0.3
Subtotal	9.6	0.3	0.3	0.3
Other (Light Jets, GA, Military)	3.6	1.2	1.2	1.2
Total	**16.6**	**4.9**	**6.9**	**9.9**
Total				
Heavy Jets				
DC-8	2.0			
DC-8S	1.3			
MD-11	1.4			
B-767-300	0.0	3.5	9.5	14.5
B-767-200		1.1	1.1	1.1
B-747-400	0.0	0.4	0.4	0.4
A-300-600	0.0	0.1	0.1	0.1
DC-10-10	0.0			
Subtotal	4.7	5.1	11.1	16.1
Other Large Jets				
DC-9	1.4			

	1998 EA 2015 High Growth[1]	BWI 2016-2020 Improvements EA[2] 2020	2018 No Action[3]	2018 Proposed Action[4]
A-310	3.5			
B-727	5.7			
B-757	2.7	1.3	1.3	1.3
Subtotal	13.3	1.3	1.3	1.3
Other (Light Jets, GA, Military)	5.0	3.8	3.8	3.8
Total	**23.0**	**10.2**	**16.2**	**21.2**

Notes: Columns may not sum exactly because of rounding.
[1] BWI Mid-Field Cargo Facility Ground Noise Assessment, HMMH, July 1996. Document did not provide day/night split of aircraft arrivals. Activity levels for 2015.
[2] Draft EA and Section 4(f) Determination Proposed Improvements 2016-2020 at BWI Marshall Airport. Activity levels for 2020.
[3] Estimated aircraft operations provided by Midfield Cargo Operator. Activity levels for 2020.
[4] BWI Midfield Cargo Facility Ground Noise Assessment, HMMH, July 1996, plus operations from new Midfield Cargo Facilities. Activity levels for 2020.

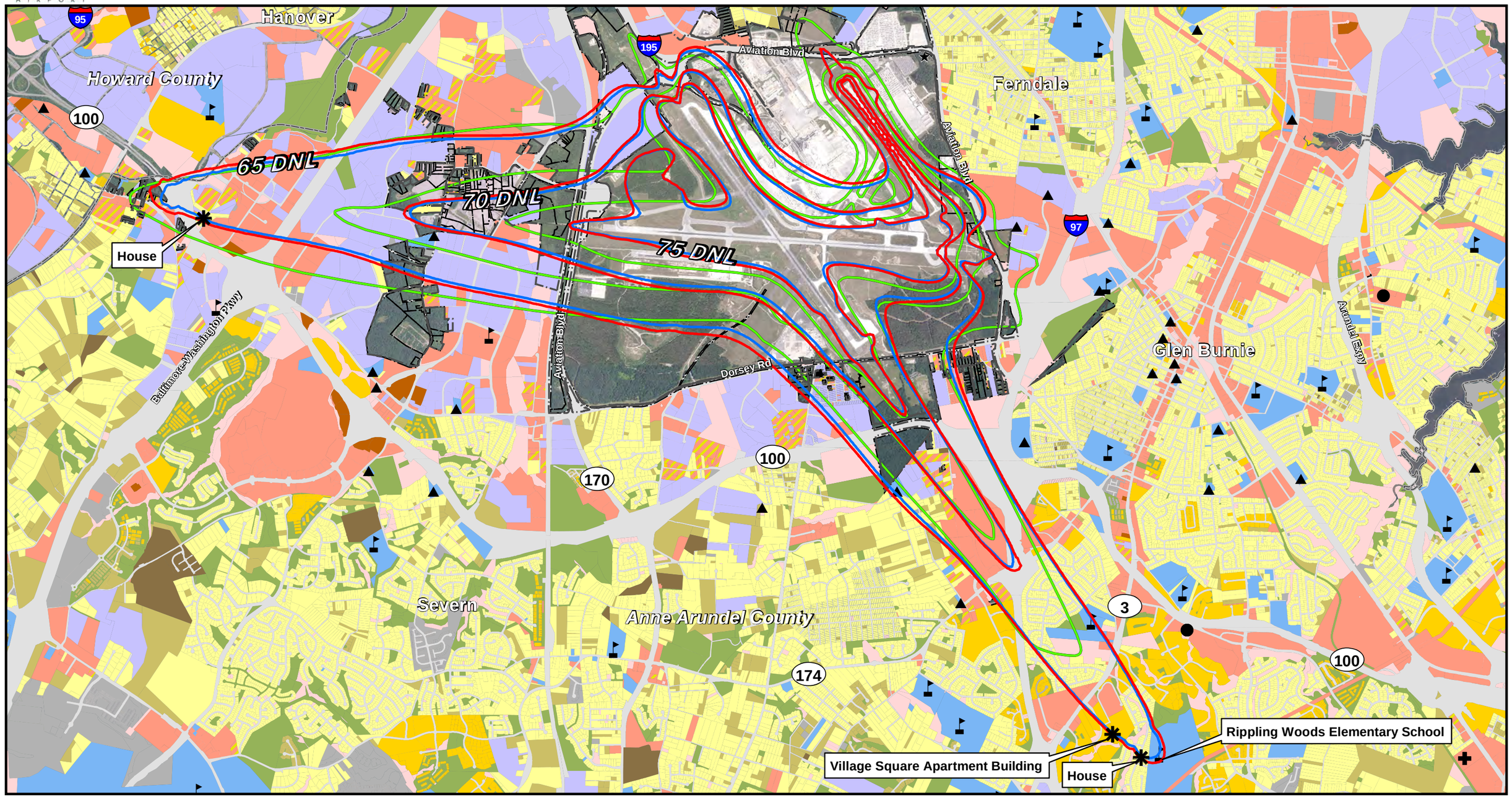
Sources: As noted and HNTB analysis, September 2018.

Post-2020, there are no indications that the non-Midfield Operators will grow at rates that are inconsistent with their current or past historical trends, and they are therefore unlikely to require expanded facilities in the near future. Demand from the Midfield Cargo Operator may continue to increase; however, any material increase in operations by the Midfield Cargo Operator beyond what is projected for 2020 will likely require new or expanded facilities that will trigger a separate environmental review commensurate with the level of potential environmental impact associated with those facilities.

Noise Analysis

An AEDT model analysis was created to determine the potential change in contour area for the projected increase in cargo operations specific to the 2018 Proposed Action by the year 2020. It should be noted that the contours from the *Draft EA and Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport* (January 2018) which are the base of the noise analysis in this Technical Report were verified in response to public comments on the Draft EA and Section 4(f) Determination, see ***Appendix F, Noise (Attachment 1)***. Additional review of the noise model input data was completed by MDOT MAA in response to comments provided by the public on the incorporation of flight paths and procedures implemented at BWI Marshall Airport by the FAA. Both the 2018 No Action and 2018 Proposed Action contours reflect FAA's most recent airspace changes made as part of or separate from the D.C. Metroplex, as well as airport improvement projects that have been made in the past. See *Section 4.4.13, Cumulative Impacts*.

The 2018 Proposed Action fleet mix for the analysis of the Midfield Cargo Improvements includes the 2018 No Action operations plus the operations associated with the proposed new parking positions at the Midfield Cargo Facility. All the Midfield Cargo Facility aircraft operations were assumed to be performed by Boeing 767-300 aircraft as provided by the Midfield Cargo Operator and consistent with existing activity at the Facility. The day/night distributions from Tables 4.18 and 4.19 were applied. Using the 2018 No Action and 2018 Proposed Action fleet mixes, AEDT estimated an increase of approximately 6.5% in terms of DNL 65+ dB area. **Table 4.21** shows the noise area comparisons for the AEDT analysis and the 1998 EA Proposed Action (Alternative 4R High Growth Scenario, Year 2015), and **Figure 6** shows a comparison of the 2018 No Action (Year 2020), 2018 Proposed Action (Year 2020) and 1998 EA Proposed Action (Year 2015) contours.



LEGEND

- 2018 No Action Noise Contour (Year 2020)
- 2018 Proposed Action Noise Contour (Year 2020)
- 1998 Proposed Action Noise Contour (Year 2015)
- Hospital
- Nursing Home
- School
- Place of Worship
- Historic Resource
- Table 4.21 Listed Housing Unit

Existing Land Use

- Single Family
- Multi-Family Residential
- Mobile Home
- Transient Lodging
- Public Use
- Recreational Open Space
- Mixed Use
- Commercial Use
- Commercial Use Exempt
- Manufacturing and Production
- Transportation
- Vacant / Undefined
- Undeveloped Zoned Residential
- BWI Airport Property
- County Boundary

N

0 1,500 3,000 6,000 Feet

Source: Aerial - MDOT MAA (2016), National Park Service, Maryland Department of Planning, Google Earth

Noise Contours with Land Use
Figure 6

Table 4.21

Noise Analysis – Comparison of the 2018 No Action, 2018 Proposed Action and 1998 EA Proposed Action Contours

	Year 2020		Year 2015	% Change from 2018 No Action to 2018 Proposed Action	% Change from 1998 EA Proposed Action to 2018 Proposed Action
	2018 No Action	2018 Proposed Action	1998 EA Proposed Action[1]		
Annual Operations	273,562	277,212	381,790	1.3%	-37.7%
Average Annual Day Operations	749.4	759.4	1046.0	1.3%	-37.7%
AEDT 65+ DNL Area (Square Miles)	6.2	6.6	6.6[2]	6.5%	0.0%

Notes: [1]1998 EA Proposed Action (Year 2015) = Alternative 4R High Growth Scenario.
[2] As digitized from 1998 EA.

Sources:
(a) Final Environmental Assessment and Finding of No Significant Impact for the Proposed Expansion of Air Cargo Facilities, June 1998.
(b) HNTB analysis, September 2018

There were additional housing units (approximately 870 units) and one school (Rippling Woods Elementary School) within the DNL 65 dB contour area south of the Airport when comparing the 2018 Proposed Action (Year 2020) to the 1998 EA Proposed Action (Year 2015). There was also one additional house within the DNL 65 dB contour area west of the Airport when comparing the 2018 Proposed Action (Year 2020) to the 2018 No Action; however, this house would have been in the 1998 EA Proposed Action (Year 2015). As illustrated in Figure 6, the noise exposure associated with the completion of the Midfield Cargo Facility would be less off of all runway ends with the exception of Runway 33L, as compared to the 1998 EA Proposed Action (Year 2015) noise contours. The projected contour south of Runway 33L is longer than the 1998 EA Proposed Action (Year 2015) contour. This change is unrelated to the Midfield Cargo area; rather, it is due to runway use changes that have occurred at the Airport in response to changes in fleet mix, changes in air carriers, changes in terminal use, etc. For example, in the 1998 EA, nighttime departures for heavy jets were projected to occur off of Runway 28 approximately 82% of the time whereas with the current projections for the year 2020, nighttime departures off of Runway 28 are expected only 62% of the time. Conversely, in the 1998 EA, nighttime departures for heavy jets were projected to occur off of Runway 15R approximately 10% of the time whereas they are projected to occur 35% of the time in this analysis. See *Appendix F, Noise (Attachment 2)* for a complete runway use comparison of heavy and large jets between the 1998 EA and 2018 Proposed Action.

Additionally, as another data point for determining existing and future runway use at BWI Marshall Airport, the 2016 Noise Exposure Maps Update estimated that nighttime departure use of Runway 28 for heavy jets would be approximately 67% by 2019. Nighttime departures for heavy jets off of Runway 15R were estimated to be approximately 29% by 2019. The Noise Exposure Maps Update disclosed that the noise contours were expected to increase by the year 2019 southeast of the Airport near Runway 33L due to increased air carrier arrivals to Runway 33L and departures off Runway 15R. The 2016 Noise Exposure Maps Update discusses the mitigation for non-compatible land uses in the area southeast of Runway 33L.

When comparing the 2018 No Action (Year 2020) to the 2018 Proposed Action (Year 2020), a grid point analysis determined the noise levels over noise sensitive areas not included in the DNL 65+ dB contour only increase by approximately DNL 0.2 dB (or less), as summarized in **Table 4.22**. Notably, Rippling Woods Elementary School was included within the DNL 65+ dB contour in the most recently approved 2016

Noise Exposure Maps Update. It was determined that the school is adequately protected from aircraft noise and that the school does not require any acoustical modification. MDOT MAA's 1989 BWI Marshall NCP identified Rippling Woods Elementary School (ES), within the 65 DNL (or Ldn) contour. A consultant working for MDOT MAA at the time concluded "that the interior of Rippling Woods ES is adequately protected from aircraft noise and that school does not require any acoustical modification." This opinion was confirmed by an independent study commissioned by the Anne Arundel County Board of Education.[13] Additional housing units included in Table 4.21 are indicated on Figure 6 by a black asterisk. The housing units to the south of the Airport, at the southernmost end of the 2018 Proposed Action DNL 65+ dB contour are also included in the 2016 Noise Exposure Maps Update contour. The apartment building indicated in Table 4.21 is within the Village Square Apartments complex that is included in the Residential Sound Insulation Program (RSIP) defined in the 2016 Noise Exposure Maps Update.

The noise model from the 1998 EA was not available to determine specific noise levels estimated for the year 2015 with the Alternative 4R high growth scenario however it is expected that the projected noise levels at the Rippling Woods ES, Village Square Apartment Building, and the house to the south would have been in the range of DNL 60 to 61 and the house to the west would have been in the range of DNL 66. The change in noise exposure between the 1998 EA Proposed Action (Year 2015) and the 2018 Proposed Action (Year 2020) would range from -0.8 to potentially 5 DNL. However, the existing noise levels for these noise sensitive land uses as identified in the *Draft EA and Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport* (January 2018), which is the most recent publicly reviewed noise exposure for BWI Marshall Airport, are well beyond the 1998 EA Proposed Action (Year 2015) DNL 65 contour to the south of Runway 33L. The expansion of the contours south of Runway 33L are due to runway use changes that have occurred at BWI Marshall Airport over the last 20 years as described on the page that follows.

Table 4.22

Noise Levels over Noise Sensitive Areas (DNL) –
2018 No Action (Year 2020) vs. 2018 Proposed Action (Year 2020)

Noise Sensitive Land Use	2018 No Action (Year 2020)	2018 Proposed Action (Year 2020)	1998 EA (Year 2015)[2]	Change from 2018 No Action to 2018 Proposed Action	Change from 1998 EA Proposed Action to 2018 Proposed Action
Rippling Woods Elementary School (South)	65.0	65.2	60-61	0.2	4.2-5.2
Village Square Apartment Building (South)[1]	64.9	65.0	60-61	0.1	4.0-5.0
House (South) [1]	64.9	65.0	60-61	0.1	4.0-5.0
House (West)	65.0	65.2	66	0.2	-0.8

Note: [1] The housing units to the south represent the apartment building and house furthest outside the 2018 No Action (Year 2020) contour, but within the 2018 Proposed Action (Year 2020) contour. Both units are within the 2016 Noise Exposure Maps Update DNL 65+ dB contour.

[2] Exact values at these points are not provided in the 1998 EA, estimated values provided by visual analysis of previous contours.

Sources*: Draft EA and Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport* (January 2018), FAA AEDT, and HNTB Analysis, 2018.

The AEDT analysis determined the noise increase over noise sensitive areas brought into the DNL 65+ dB noise contour as a result of the 2018 Proposed Action to be approximately DNL 0.2 dB when compared to the 2018 No Action. See *Appendix F, Noise (Attachment 2)*. This level of increase will not constitute a significant impact because the increases are below DNL 1.5 dB over noise sensitive areas. This level of change is similar to the expected change reported in the 1998 EA at grid points analyzed when comparing the 1995 No Action (Year 2015) and the 1998 Proposed Action (Year 2015). The range of change reported was between DNL 0.2 and 0.5 dB.

Because of these changes in runway use over the span of 20 years, there are differences between the shape of the noise contours projected for the 2018 Proposed Action in the year 2020 and the 1998 EA Proposed Action projected for the year 2015. However, the overall area of noise exposure remains consistent between the two analyses at 6.6 square miles (see Table 4.20). When comparing the change in noise level between the 2018 No Action and 2018 Proposed Action in the year 2020, there are no significant noise impacts. Additionally, as previously noted, a more conservative scenario, i.e., higher impact associated with the 2018 Proposed Action because higher aircraft utilization rates were assumed for the new parking positions than were subsequently provided by the Midfield Cargo Operator (see *Appendix E*), also demonstrated that there are no significant noise impacts.

As described in Tables 4.16 and 4.17, completion of the Midfield Cargo Facility has the potential to accommodate approximately 6.0 daytime cargo AAD departures and 5.0 nighttime cargo AAD departures (4.0 daytime and 2.0 nighttime departures from existing positions and 2.0 daytime and 3.0 nighttime departures from proposed positions). The 1998 EA estimated that cargo operations by 2015 at the Midfield Cargo Facility would be approximately 6.4 daytime departures and 16.6 nighttime departures under the high growth scenario, still higher than the 2018 Proposed Action. In addition, the 2018 No Action and 2018 Proposed Action both involve operations by modern quieter aircraft and a lower percentage of nighttime departures. The determination that there are no significant noise impacts associated with development, and in this case, the completion of the Midfield Cargo Facility, remains valid.

Further, per FAA Order 1050.1F, paragraph 9-3: (1) the proposed action considered in the 1998 EA and the 2018 Proposed Action have no substantial changes; both envisioned a cargo facility as described in Section 1.3 of this Technical Report; (2) there are no significant new circumstances or information that paints a dramatically different picture of impacts compared to the description of impacts in the 1998 EA relevant to environmental concerns and bearing on the proposed action or impacts. While the specific boundaries of the noise exposure may vary west of Runway 10-28 and south of Runway 15R-33L, the expected change in noise associated with completing the Midfield Cargo Facility remains consistent with the change described in the 1998 EA which was a change between DNL 0.2 and 0.5 dB. In neither circumstance would there be any significant change in aircraft noise. Further, the overall shape and location of the noise contours are similar between the 1998 EA and the analysis within this Technical Report. And, as discussed, the areas in the southern noise contour lobe greater than DNL 65 dB are included in the most recent BWI Marshall Airport Noise Exposure Maps Update (approved 2016) and the Residential Sound Insulation Program.

<u>Construction</u>

Overall, the construction phase of this project would be expected to create minor and temporary impacts at the project site and in the surrounding airfield and terminal area. These impacts would be short-term in nature, lasting for the duration of construction activities. Temporary noise impacts would be generally localized at the vicinity of the construction site and the localized increase in noise levels would not disrupt normal airport operations or activities.

HIGH GROWTH SENSITIVITY ANALYSIS

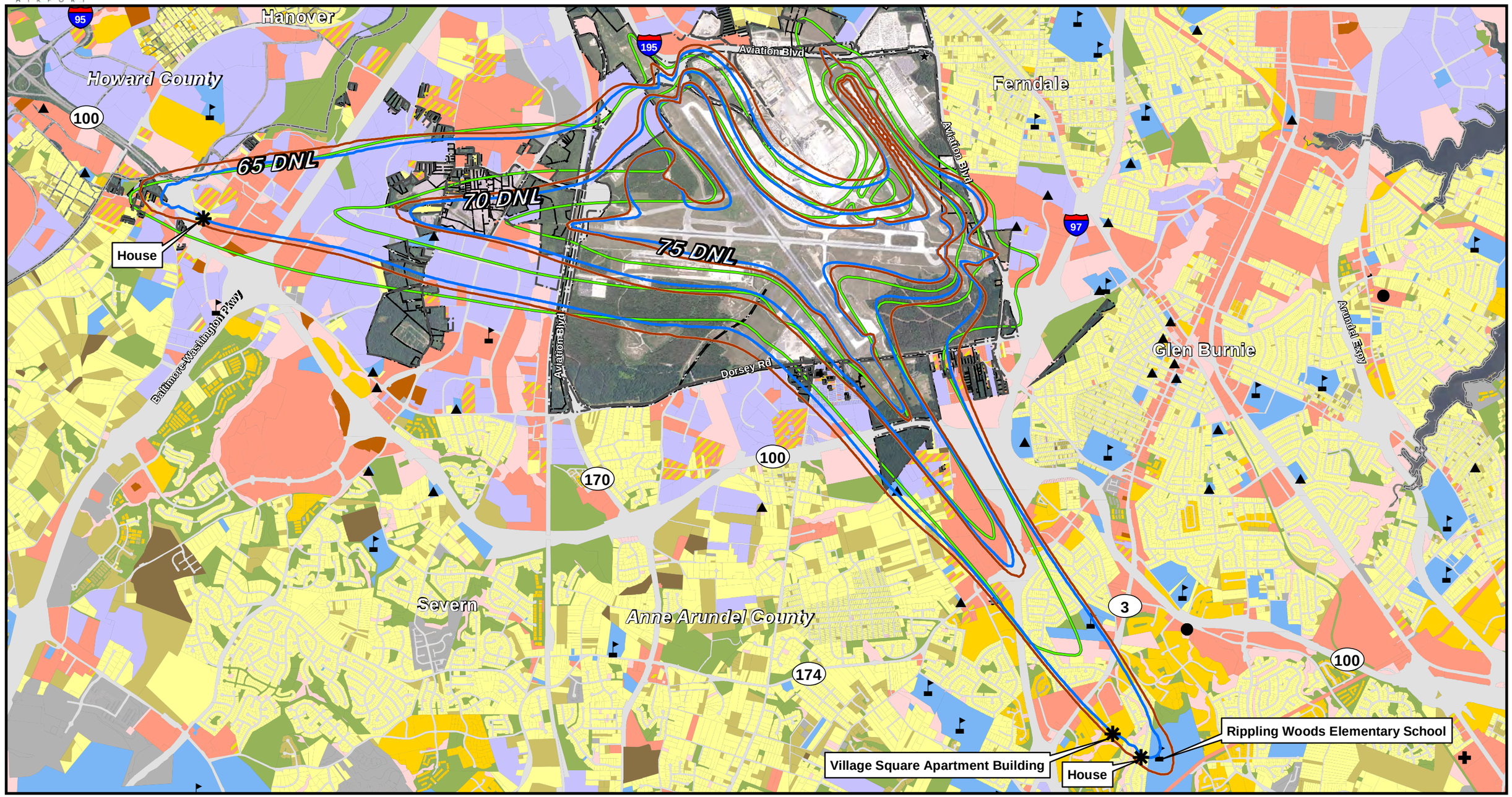
An alternative way of examining the impacts of the Midfield Cargo Project would be to assume that the Midfield Cargo Operator would significantly increase the utilization of the aircraft parking positions far beyond what is projects. This is something it has not achieved in its current operations nor incorporated in the forecast it has made available to MDOT MAA. This level of utilization of the aircraft parking positions would be beyond the utilization rates experienced at other airports. Nevertheless, a more conservative, high growth scenario based on the analysis in Appendix E was developed to address this possibility and test whether there would be any substantial changes from the 1998 EA.

2018 High Growth Scenario Forecast

Table 4.23 shows a high growth scenario in which users of the Midfield Cargo Project are able to generate 10 AAD day aircraft departures or 7,300 annual aircraft departures from the proposed seven additional cargo positions. These operations include both weekday and weekend operations and represent an annual average. Note that this utilization rate would be almost twice as high as the utilization rate in the highest comparable airport, TPA (see Table 4.18). This would result in a total of 21 AAD departures from the Midfield Facility, still less than the 23 AAD departures projected in the 1998 EA High Growth Scenario. Additionally, the High Growth scenario in Table 4.21 assumes quieter, more modern aircraft and a smaller percentage of nighttime departures than the 1998 EA High Growth Scenario based on actual recent usage. Finally, the 2018 High Growth Scenario would generate an airport total of 769.4 AAD operations, compared to the 1046.0 AAD operations (523.0 departures x 2) projected in the 1998 EA High Growth Scenario for the year 2015. Therefore, even a High Growth scenario would still be consistent with the projections developed in the 1998 EA.

Noise Analysis

An AEDT model was created to determine the potential change in contour area for the projected increase in cargo operations specific to the 2018 High Growth Scenario. **Table 4.24** shows the noise area comparisons for the AEDT analysis of the High Growth Scenario and the 1998 EA Proposed Action (Alternative 4R High Growth Scenario, Year 2015), and **Figure 7** shows a comparison of the 2018 No Action (Year 2020), 2018 High Growth Scenario, and 1998 EA Proposed Action (Year 2015) contours. See *Appendix F, Noise (Attachment 3)* for details on the development of the High Growth Scenario contour.



LEGEND

- 2018 No Action Noise Contour (Year 2020)
- 2018 High Growth Scenario Noise Contour
- 1998 Proposed Action Noise Contour (Year 2015)
- Hospital
- Nursing Home
- School
- Place of Worship
- Historic Resource
- Table 4.21 Listed Housing Unit

Existing Land Use

- Single Family
- Multi-Family Residential
- Mobile Home
- Transient Lodging
- Public Use
- Recreational Open Space
- Mixed Use
- Commercial Use
- Commercial Use Exempt
- Manufacturing and Production
- Transportation
- Vacant / Undefined
- Undeveloped Zoned Residential
- BWI Airport Property
- County Boundary

High Growth Sensitivity Analysis
Noise Contours with Land Use
Figure 7

N

0 1,500 3,000 6,000 Feet

Source: Aerial - MDOT MAA (2016), National Park Service, Maryland Department of Planning, Google Earth

Table 4.23

High Growth Sensitivity Analysis

	2018 No-Action Alternative[1]			Proposed Parking Positions[2]			2018 High Growth Scenario[3]		
	Arrivals	**Departures**	**Total**	**Arrivals**	**Departures**	**Total**	**Arrivals**	**Departures**	**Total**
Daytime									
Heavy Jets	6.8	6.7	13.5	5.0	5.0	10.0	11.8	11.7	23.5
Other Large Jets	264.9	262.2	527.1				264.9	262.2	527.1
Other (Light Jets, GA, Military)	41.6	41.5	83.1				41.6	41.5	83.1
Total	**313.3**	**310.4**	**623.7**	**5.0**	**5.0**	**10.0**	**318.3**	**315.4**	**633.7**
Nighttime									
Heavy Jets	6.3	6.4	12.6	5.0	5.0	10.0	11.3	11.4	22.6
Other Large Jets	50.6	53.3	103.8				50.6	53.3	103.8
Other (Light Jets, GA, Military)	4.6	4.7	9.2				4.6	4.7	9.2
Total	**61.4**	**64.3**	**125.7**	**5.0**	**5.0**	**10.0**	**66.4**	**69.3**	**135.7**
Total									
Heavy Jets	13.1	13.1	26.1	10.0	10.0	20.0	23.1	23.1	46.1
Other Large Jets	315.5	315.5	631.0				315.5	315.5	631.0
Other (Light Jets, GA, Military)	46.2	46.2	92.3				46.2	46.2	92.3
Total	**374.7**	**374.7**	**749.4**	**10.0**	**10.0**	**20.0**	**384.7**	**384.7**	**769.4**

[1] Table 4.16.
[2] Appendix E, AEDT Noise and Emissions Analysis using General Planning Assumptions.
[3] No Action Alternative plus Proposed Midfield Facility operations from Appendix E.

Table 4.24

Noise Analysis – Comparison of the 2018 No Action, 2018 High Growth and 1998 EA Proposed Action Contours

	Year 2020		Year 2015	% Change from 2018 No Action to 2018 High Growth	% Change from 1998 EA Proposed Action to 2018 High Growth
	2018 No Action	2018 High Growth	1998 EA Proposed Action[1]		
Annual Operations	273,562	280,831	381,790	2.7%	-36.0%
Average Annual Day Operations	749.4	759.4	1046.0	2.7%	-36.0%
AEDT 65+ DNL Area (Square Miles)	6.2	6.9	6.6[2]	11.3%	4.5%

Notes: [1]1998 EA Proposed Action (Year 2015) = Alternative 4R High Growth Scenario.
[2] As digitized from 1998 EA.

Sources:
(a) Final Environmental Assessment and Finding of No Significant Impact for the Proposed Expansion of Air Cargo Facilities, June 1998.
(b) HNTB analysis, September 2018

A grid point analysis was completed to determine the noise levels over the same noise sensitive levels analyzed in Table 4.22, but for the 2018 High Growth Scenario contour, as summarized in **Table 4.25.** The analysis determined that the noise increase over these areas as a result of the 2018 High Growth Scenario would be approximately DNL 0.5 dB when compared to the 2018 No Action. This level of increase would not constitute a significant impact because the increases are below DNL 1.5 dB over noise sensitive areas.

Table 4.25

Noise Levels over Noise Sensitive Areas (DNL) –
2018 No Action (Year 2020) vs. 2018 High Growth Scenario (Year 2020)

Noise Sensitive Land Use	2018 No Action (Year 2020)	2018 High Growth Scenario (Year 2020)	1998 EA (Year 2015)[2]	Change from 2018 No Action to 2018 High Growth Scenario	Change from 1998 EA Proposed Action to 2018 High Growth Scenario
Rippling Woods Elementary School (South)	65.0	65.5	60-61	0.5	4.5-5.5
Village Square Apartment Building (South)[1]	64.9	65.3	60-61	0.4	4.3-5.3
House (South) [1]	64.9	65.3	60-61	0.6[3]	4.4-5.4
House (West)	65.0	65.4	66	0.4	-0.6

Notes:
[1] The housing units to the south represent the apartment building and house furthest outside the 2018 No Action (Year 2020) contour, but within the 2018 Proposed Action (Year 2020) contour. Both units are within the 2016 Noise Exposure Maps Update DNL 65+ dB contour.
[2] Exact values at these points are not provided in the 1998 EA, estimated values provided by visual analysis of previous contours.
3 The actual noise increase at the House (South) is DNL 0.5 dB, but due to rounding of noise levels under the 2018 No Action and 2018 High Growth Scenarios, the change is shown as DNL 0.6 dB.

As summarized in Table 4.23 under the 2018 High Growth Scenario (conservative case), the Midfield Cargo Facility could accommodate 9.0 daytime and 7.0 nighttime total departures (4.0 daytime and 2.0 nighttime from existing positions and 5.0 daytime and 5.0 nighttime from proposed positions). The 1998 EA estimated that cargo operations by 2015 at the Midfield Cargo Facility would be approximately 6.4 daytime departures and 16.6 nighttime departures under the high growth scenario, still higher than the 2018 High Growth Scenario (conservative case). In addition, the 2018 No Action and 2018 High Growth Scenario both involve assume operations by modern quieter aircraft. The determination that there are no significant noise impacts associated with development, and in this case, the completion of the Midfield Cargo Facility, remains valid.

***Conclusion*:** There would be no significant impacts to noise and noise-compatible land use associated with the expansion of the Midfield Cargo Facility Improvements (2018 Proposed Action), therefore, no mitigation measures are required for this project.

Table 4.26

Summary of Potential Changes to Noise and Noise-Compatible Land Use

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Midfield Improvements Proposed Action**		
No significant impact.	No significant impact. The total number of aircraft departures and all-cargo aircraft departures in the 2018 Proposed Action are less than had been forecast in the 1998 EA, with the number of nighttime cargo departures being significantly lower in the 2018 Proposed Action. The analysis determined that noise levels over noise sensitive areas increase by approximately 0.2 dB (or less) when comparing the 2018 No Action to the 2018 Proposed Action, which does not constitute a significant impact. Due to changes in runway use over the span of 20 years, there are differences between the shape of the noise contours projected for the 2018 Proposed Action in the year 2020 and the 1998 EA Proposed Action projected for the year 2015. However, the overall area of noise exposure remains consistent between the two analyses at 6.6 square miles. The determination that there are no significant noise impacts associated with the revision to the 1998 EA Proposed Action remains valid.	N	N/A

4.4.10 SOCIOECONOMICS, ENVIRONMENTAL JUSTICE, AND CHILDREN'S ENVIRONMENTAL HEALTH AND SAFETY RISKS

SUMMARY OF 1998 EA – ALTERNATIVE 4R

Alternative 4R in the 1998 (as with all Build Alternatives) would be constructed on airport property and would not divide or disrupt any of the established communities within the area. The 1998 EA determined that expansion of cargo facilities would have a positive impact on the economic growth in the Airport vicinity and the Baltimore metropolitan region. The EA noted that additional employment would be created, regardless of the Build Alternative selected.

Surface Transportation

The EA stated that the Build alternatives would increase traffic volumes on the adjacent roadways, particularly Aviation Boulevard, MD Route 100, Dorsey Road, and I-95, however it was determined that the area roadway network had sufficient capacity to accommodate the increased post-construction traffic volumes. The analysis applied an annual growth rate of 2 percent (consistent with previous traffic projections conducted for Airport activities) to the 1994 Average Daily Traffic (ADT) volumes at the MD Route 170 (Aviation Boulevard) and MD Route 176 (Dorsey Road) intersection and the Aviation Boulevard and I-95 intersection to determine a preliminary Year 2000 traffic volume projection. The proposed project was not likely to increase average annual traffic volumes at either intersection in the future by more than the 2 percent growth rate used for the Year 2000 projects; thus, the project was not anticipated to generate a need for additional roadway or intersection improvements in the short-term, with the exception of possible turning lanes at the facility entrance. Four buildings were included as part of Alternative 4R.

Conclusion: There would be no significant impacts to socioeconomics associated with Build Alternative 4R, therefore, no mitigation measures were required for this project.

MIDFIELD CARGO FACILITY IMPROVEMENTS

The Proposed Action would not cause any impacts to surrounding communities or shift any business or economic activity in the community. No residents or businesses will be relocated as part of the project. The project is restricted to existing Airport property in an existing cargo area. Thus, the project would not disrupt an established community.

The project would not disrupt traffic patterns or substantially reduce the levels of service of roads serving the airport or its surrounding communities. Although there would be an increase in surface vehicle traffic at Aviation Boulevard and Mathison Way, as discussed below in *Surface Transportation*, the level of service (LOS) would operate at an LOS B, which is considered acceptable. Although there are minority and/or low-income populations in the vicinity of the Airport, they are not near the Study Area and no disproportionately high or adverse impacts to minority or low-income populations would occur as a result of the project.

The project would result in indirect socioeconomic benefits related to the increase in employment for construction of the project and operation of the proposed cargo processing building.

Surface Transportation

The Proposed Action would result in added surface vehicle traffic to the intersection of Aviation Boulevard and Mathison Way. A Synchro traffic modeling analysis was completed as part of the *Draft EA and Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport* (January 2018) for the intersections around the Airport. The analysis indicated that this intersection would operate at an LOS A in both the 2020 and 2025 Proposed Action Alternatives.

An Institute of Transportation Engineers (ITE) trip generation analysis was completed for the proposed building to determine the potential impacts to surface traffic. (The project includes a 200,000-square foot cargo processing building.) The closest land use type provided in ITE trip generation for the cargo processing building was #156 high-cube parcel warehouse. This land use type is for a warehouse that acts as a consolidation point with short term storage (quick turnaround), and a high degree of automation and logistic management, which is similar to the proposed use of the cargo processing building. It was assumed there would be two shifts/day with shift changes occurring at AM and PM roadway peak.

The ITE trip generation analysis resulted in approximately 200 trips in the AM peak (70 in/130 out) and 165 trips in the PM peak (100 in/65 out) at the intersection of Aviation Boulevard and Mathison Way. The trip generation for the proposed buildings was input into the *Draft EA and Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport* (January 2018) 2020 Proposed Action Alternative Synchro model which indicated that the intersection of Aviation Boulevard and Mathison Way would operate at an LOS B. Per Maryland State Highway Administration (SHA) requirements, operations are considered acceptable at LOS D or better. Therefore, no roadway improvements would be necessary at the intersection due to the increase in trips. The project would not disrupt traffic patterns or substantially reduce the levels of service of roads serving the airport or its surrounding communities.

Construction

No direct or indirect economic impact analysis was conducted for this Technical Report, however it is expected that there would be an increase in the availability of construction jobs during the construction period.

***Conclusion*:** There would be no significant impacts to Socioeconomics, Environmental Justice, and Children's Environmental Health and Safety Risks associated with the Midfield Cargo Facility Improvements (2018 Proposed Action), therefore, no mitigation measures are required for this project.

Table 4.27

Summary of Potential Changes to Socioeconomics, Environmental Justice, and Children's Environmental Health and Safety Risks

Impacts		**Change (Y/N)**	**If yes, proposed mitigation**
1998 EA Alternative 4R	**Midfield Improvements Proposed Action**		
No significant impact. The project was not likely to increase average annual traffic volumes by more than the 2 percent growth rate used for the Year 2000 projects, however no LOS was determined. The project was not anticipated to generate a need for additional roadway or intersection improvements in the short-term, with the exception of possible turning lanes at the facility entrance.	No significant impact. The Midfield Improvements Proposed Action would result in a reduced level of service (from LOS A to LOS B) at the intersection of Aviation Boulevard and Mathison Way.	Y	N/A Per Maryland SHA requirements, operations are considered acceptable at LOS D or better, therefore no mitigation would be necessary at the intersection due to the increase in trips.

4.4.11 VISUAL EFFECTS (INCLUDING LIGHT EMISSIONS)

SUMMARY OF 1998 EA – ALTERNATIVE 4R

The 1998 EA discusses impacts to light emissions under the Energy Supply and Natural Resources section for the Build Alternatives. The Build Alternatives would result in an increase of light emissions from the Airport, however, none of the light sources were expected to significantly increase light emissions to residential uses. The EA noted that shielding and screening techniques would be considered in the construction of the additional air cargo buildings/apron as well as all associated support facilities to minimize any potential impacts on residential areas.

Evaluation of visual effects/impacts was not required for the EA because it was not a resource category identified in FAA Order 1050.1D/5050.4A.

Conclusion: There would be no significant impacts to light emissions associated with Alternative 4R, therefore, no mitigation measures were required for this project.

MIDFIELD CARGO FACILITY IMPROVEMENTS

Light Emission Effects – Additional lighting associated with the project would occur. The midfield cargo improvements may require alterations to existing site and taxiway lighting, however all of the improvements would occur on Airport property and there is already lighting in or around the project areas. The Airport currently has light emissions from aircraft, ground operations, work area lighting and security lighting. Therefore, any additional light from the improvements would not significantly change the light emissions from current conditions. Lighting for the Midfield Cargo Facility would be designed to comply with FAA and airport lighting standards in order to ensure there would be no negative impacts to runway operations or aircraft safety.

The land uses surrounding the Study Area are additional Airport landside facilities with the nearest residential uses located over ½-mile from the project.

Visual Resources and Visual Character – The project would be consistent with the existing cargo area and would not have any visual/aesthetic impacts. The proposed buildings would match existing facilities and would be constructed with similar building materials. It is not anticipated that the project would impact the visual/aesthetic integrity of the area.

***Conclusion*:** There would be no significant impacts from light emissions or visual resources/visual character with the Midfield Cargo Facility Improvements (2018 Proposed Action), therefore, no mitigation measures are required for this project.

Table 4.28

Summary of Potential Changes to Visual Effects (Including Light Emissions)

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Midfield Improvements Proposed Action**		
No significant impact.	No significant impact. Evaluation of visual effects was not required for the 1998 EA because it was not a resource category identified in FAA Order 1050.1D/5050.4A, however no impacts to Visual Effects (Including Light Emissions) associated with the revision to the 1998 EA Proposed Action.	N	N/A

4.4.12 WATER RESOURCES (WETLANDS, SURFACE WATERS, GROUNDWATER)

SUMMARY OF 1998 EA – ALTERNATIVE 4R

The 1998 EA describes the impacts to *Water Quality and Wetlands* resulting from Alternative 4R.

Water Quality – The EA analyzed impacts of Alternative 4R by drainage area. The analysis noted that the development would result in drainage area diversions and land use changes. The Kitten Branch drainage area would increase by 10.2 acres and would include an additional 50 acres of impervious area from the proposed cargo complex. Stormwater runoff would be directed into a new infiltration basin to handle the increased flow. The new basin would be constructed in the infield area between the proposed north parallel taxiway and Taxiway F. Additionally, infiltration trenches would be installed with level spreading devices to help reduce peak flow.

The Signal Branch drainage area would decrease by 10.7 acres and would include an additional 49 acres of impervious area from the proposed cargo complex. Open channel flow and new infiltration trenches would be utilized where possible. Hawkins Branch would also be impacted by the proposed cargo support area, and stormwater management would potentially include open channel flow and stone check dams.

Alternative 4R also included the stockpiling of approximately 2.4 million cubic yards between the Clark Branch and Hawkins Branch wetland areas. Peak flows through this area would be managed by outlet structures on the sediment basin at the base of the stockpile which would serve as a temporary stormwater management facility.

The 1998 EA identified permit requirements and potential mitigation measures. In accordance with Section 404 of the Clean Water Act (CWA) and the Maryland Nontidal Wetlands Protection Act, a Joint Federal and State Permit Application for the Alteration of any Floodplain, Waterway, Tidal or Nontidal Wetland was submitted to the U.S. Army Corps of Engineers (USACE). In accordance with Section 401 of CWA, a Water Quality Certification (WQC) was obtained by MDE. The Airport's existing National Pollutant Discharge Elimination System (NPDES) permit was not expected to be revised based on the proposed Alternative 4R.

The analysis references the 1993 BWI Comprehensive Stormwater Management Plan for measures that can be implemented to control stormwater quantity and enhance overall water quality. As a mitigation

measure, the WQC included the condition that the first ½ inch of runoff from new impervious surfaces would be controlled by water quality structures prior to discharge to receiving waters.

Wetlands - The EA analyzed impacts of Alternative 4R on wetlands and streams by drainage area. The analysis states that Alternative 4R would impact 0.2 acres of wetlands and 45 linear feet of stream within the Hawkins Branch and Clark Branch wetland system; 0.9 acres of wetlands and 617 linear feet of stream within the Signal Branch wetlands system; and 0.04 acres of wetlands and 667 linear feet of stream within the Kitten Branch wetland system. A Section 404 Wetlands Permit was obtained from USACE (97-63850, January 9, 1998) and a wetland mitigation feasibility study was conducted on MAA-owned property west of the Airport.

Groundwater – There is no analysis of impacts to groundwater in the 1998 EA. The EA describes the existing groundwater in Anne Arundel County and around BWI Marshall Airport. The EA notes that BWI is located over the Patapsco Aquifer, which is recharged by surface infiltration of precipitation.

Conclusion: Impacts to water quality within Kitten Branch, Signal Branch, Hawkins Branch and Clark Branch due to construction and operation of Alternative 4R would be minimized through design modification and mitigated through stormwater management systems (quantity and quality controls) approved prior to construction. Impacts to wetlands would be mitigated for on an MAA-owned property west of the Airport.

MIDFIELD CARGO FACILITY IMPROVEMENTS

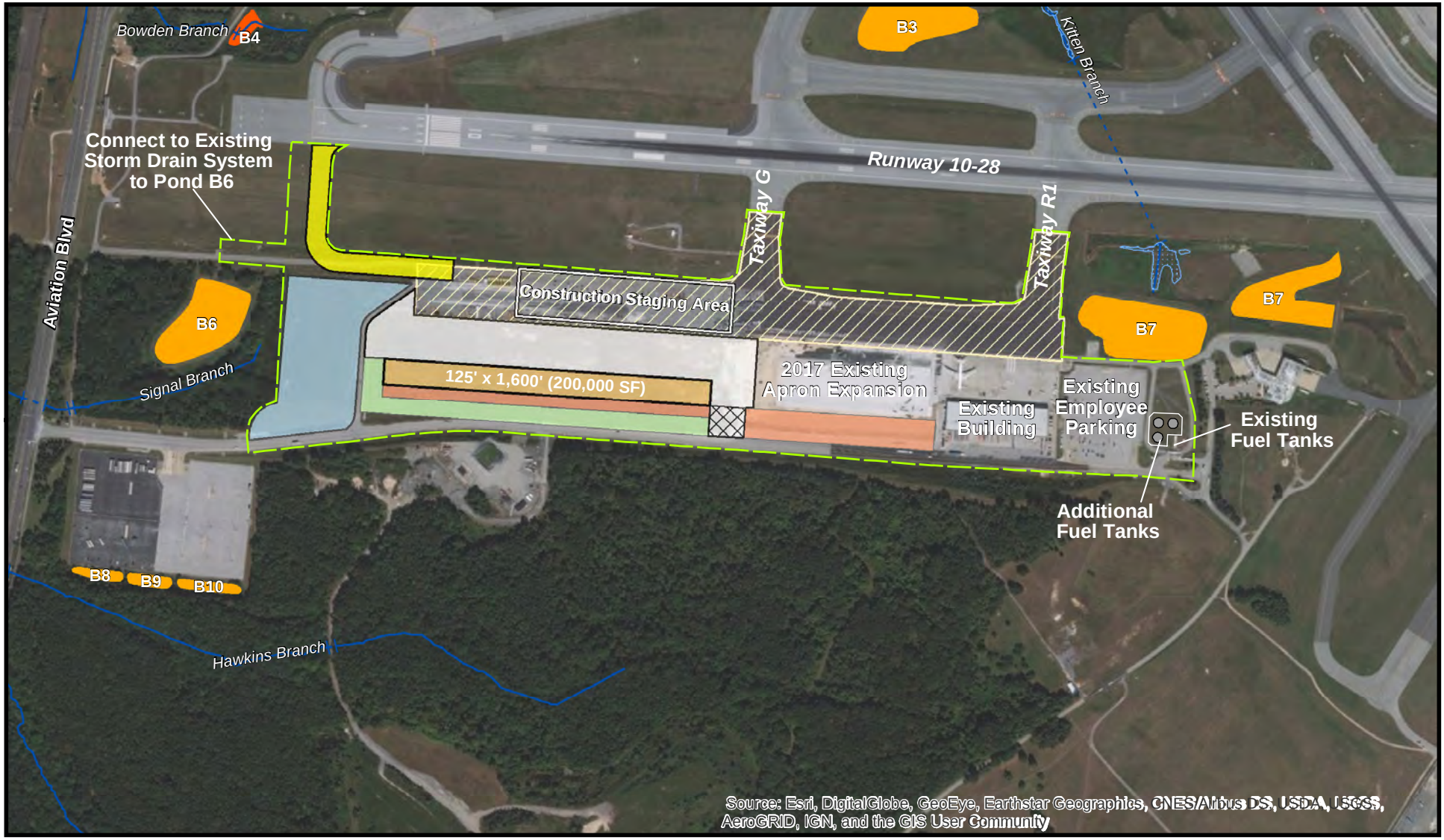
Wetlands - There are no wetlands in or directly adjacent to the Study Area. There are waters of the U.S. (streams) located near the Study Area. The headwaters of Kitten Branch are located to the north of the proposed fuel tank pads, and the headwaters of Signal Branch are located west of the proposed truck staging area. The Proposed Action does not include any impacts to wetlands or streams. Therefore, no permits or mitigation would be required.

Surface Water – Since the completion of the 1998 EA, there have been changes to Maryland's stormwater management regulations. The Maryland *Stormwater Management Act of 2007* (amended in 2009) requires environmental site design (ESD) to the maximum extent practicable (MEP). The Act resulted in the development of updated guidance on implementing the new regulations. The *2000 Maryland Stormwater Design Manua*l was revised in May 2009 to reflect the updated regulations. Additionally, MDE published the *Maryland Stormwater Management Guidelines for State & Federal Projects* (April 15, 2010) for further guidance.

Similar to the 1998 EA Alternative 4R, the current Proposed Action includes impacts to multiple drainage areas: Kitten Branch and Signal Branch. As shown on **Figure 8**, Kitten Branch and Pond B7 are located to the northeast of the project area, and Signal Branch and Pond B6 are located to the west of the project area. The project has a footprint of approximately 35.3 acres of new impervious area. The project is located on area that has already been cleared and graded as part of the construction that occurred following the 1998 EA to facilitate ultimate buildout of the site.

The existing Midfield Cargo Facility apron has a high point near the connection with Taxiway G, with area to the east draining to Kitten Branch and area to the west draining to Signal Branch. The majority of the project area (including the new apron, cargo building, and truck staging area) currently drains west via swales before it outfalls into either Pond B6 or directly into Signal Branch. Pond B6 was designed to treat the buildout of the Midfield Cargo Facility and currently has capacity to treat an additional 37.54 acres of impervious area. The project area draining to Kitten Branch (including the proposed fuel tank area, and parking south of the existing apron) currently enters the closed stormwater drainage system either through an inlet or the existing trench drains, where it continues east to outfall into Pond B7. Pond B7 has capacity to treat an additional 2.01 acres of impervious area. Note that the original design for the Midfield Cargo Facility included stormwater management for the anticipated ultimate site development.

Midfield Improvements



LEGEND

- Study Area
- Proposed Apron Pavement (11.0 Acres)
- Proposed Building (200,000 SF)
- Proposed Truck Parking/Staging Area Pavement (7.6 Acres)
- Proposed Taxiway (2.8 Acres)
- Proposed Vehicle Parking (5.4 Acres)
- Proposed Vehicle Pavement (3.8 Acres)
- Mill and Overlay (21.1 Acres)
- Proposed Truck Staging Area (0.6 Acres)
- Stream
- Culverted Stream
- 100-Year Floodplain
- Stormwater Management Pond
- USACE Jurisdictional Pond

2018 Proposed Action and Water Resources
Figure 8

N

0 175 350 700 Feet

In accordance with the updated MDE regulations, stormwater management for new development includes implementing ESD to the MEP to provide water quality and quantity treatment of the new impervious area.

Signal Branch

The project would require treatment of approximately 32.0 acres of impervious surface in Signal Branch (an ESD volume of 6.58 ac-ft). The proposed apron expansion area would include a continuation of the trench drain facilities currently located on the apron area to the east. The proposed trench drains would connect to a closed storm drain system, and drain west to connect to the existing storm drain system to outfall into Pond B6. Pond B6 was designed for the ultimate buildout and has capacity to treat an additional 37.54 acres of impervious area. The project area within Signal Branch would be graded to allow all new impervious area runoff to enter a closed storm drain system to outfall into Pond B6. The combination of new trench drains and excess capacity available in Pond B6 could be utilized to meet stormwater quality and quantity treatment requirements in Signal Branch.

Kitten Branch

The project would require treatment of approximately 3.3 acres of impervious surface in Kitten Branch (an ESD volume of 0.68 ac-ft). Runoff from the project area south of the existing apron would enter the existing trench drains or a closed storm drain system and continue east to outfall into Pond B7. Runoff from the proposed fuel tank area would also enter the storm drain system through existing inlets and drain into Pond B7. Pond B7 has capacity to treat an additional 2.01 acres of impervious area. Additional treatment could be provided in infiltration trenches constructed in the open area north of the proposed fuel tank. See ***Appendix G, Stormwater*** for the calculation of treatment requirements.

Groundwater –There would be no impacts to groundwater as a result of the Proposed Action. There are no sole source aquifers in the vicinity of the Airport and the improvements to the Midfield Cargo Facility would not impact groundwater such that water quality standards set forth by Federal, state, or local agencies would be exceeded or would have the potential to contaminate an aquifer used for public water supply.

Construction

The proposed construction staging area is located on the existing taxilane north of the proposed apron expansion, as shown on Figure 7. If uncontrolled, construction activities have the potential to cause erosion and sedimentation that can impact water quality. Short-term construction impacts would be minimized by strict adherence to erosion and sediment control procedures. BMPs would be used to avoid and minimize any potential impacts to the environment during construction and for the control of stormwater for quantity and quality.

***Conclusion*:** There would be no significant impacts to water resources with the Midfield Cargo Facility Improvements (2018 Proposed Action). MDE SWM requirements would be met through a combination of (1) new trench drain facilities; (2) excess capacity available downstream in Pond B6 (Signal Branch) and Pond B7 (Kitten Branch); and (3) an additional infiltration trench in Kitten Branch. MDE stormwater, and erosion and sediment control permits would be obtained prior to construction.

Table 4.29

Summary of Potential Changes to Water Resources (Wetlands, Surface Waters, Groundwater)

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Midfield Improvements Proposed Action**		
No significant impact.	No significant impact. The Proposed Action would increase impervious area by 35.3 acres, with 27.9 of those acres within the 1998 EA – Alt 4R impervious area. The remaining 7.4 acres associated with the revision to the Proposed Action are still within the 1998 EA LOD. Stormwater runoff conditions in Signal Branch and Kitten Branch would be similar to the conditions proposed in the 1998 EA for full buildout of the Midfield Cargo area. The Proposed Action would be permittable through the use of existing and proposed stormwater facilities to meet MDE SWM requirements, including existing Pond B6 which was designed for the full build out of the Midfield Cargo area. No other impacts to water resources (from operation or construction) associated with the revision to the 1998 EA Proposed Action.	Y	N/A The change in impervious area from the 1998 EA to the Proposed Action does not require additional mitigation. The Proposed Action would still be permittable and designed to meet MDE SWM requirements.

4.4.13 CUMULATIVE IMPACTS

SUMMARY OF 1998 EA – ALTERNATIVE 4R

The 1998 EA contains a description of the potential cumulative impacts associated with other airfield development projects in the vicinity of the potential cargo development resulting from Alternative 4R. The assessment included review of present, recent past, and reasonably foreseeable actions in the project vicinity. The analysis noted that the other airport projects to be considered cumulatively with the Proposed Action had and would be occurring in previously developed or disturbed areas of BWI Marshall Airport property.

The cumulative impact analysis for each environmental resource concluded that Alternative 4R, when considered with other combined projects, would not contribute to a significant impact to environmental resources.

MIDFIELD CARGO FACILITY IMPROVEMENTS

Rehabilitation of the existing apron and taxilanes is anticipated to occur by the end of 2018. The other improvements associated with the Proposed Action are anticipated to begin in November 2018 and be complete in October 2019 (11 months).

On-Airport Projects

Table 4.30 shows the list of on-airport projects considered for potential cumulative impacts, along with the potential resource categories the project would impact. Note that these projects may or may not occur and even when a timeframe is provided there is no certainty that this project will actually be accomplished.

Table 4.30

BWI Marshall On-Airport Cumulative Projects

Time	Project Name	Year	Potential Impact Categories
Recently Completed (3 years)	Comprehensive Paving Improvements (A)	2011 - 2014	--
	Runway 10-28 Improvements (Including Runway 15R-33L Intersection) (A)	2011-2014	--
	Concourse B/C Connector Improvements (T)	2011 - 2015	--
	Runway 15L-33R FAA Standards Compliance (A)	2012-2015*	--
	International Terminal Bag Screening Improvements (T)	2014-2015*	--
	Homeowner Assistance Program (M)	2012 - 2016	--
	Sheraton Four Points Demolition (L)	2014-2015*	Haz. Mat.
	Runway 15L-33R FAA Improvements (A)	2015*	--
	Runway 15R-33L Improvements (A)	2015*	--
	Runway 10-28 Improvements (as part of Airfield Standards and Pavement Rehabilitation Project) (A)	2015*	--
	Taxiway Uniform (U) Relocation (A)	2015*	--
	Airfield Standards and Pavement Rehabilitation Project (A)	2015*	--
	Expansion of CUP (S)	2015*	--
	On-Airport Roadway Improvements (S)	2015*	--
	Parking Revenue Control System (Maryland CTP)	2015	-
	DC Metroplex Airspace Route and Procedure Changes	2013-2016	AQ, Noise
Current (2016-2017)	Loading Bridge Replacement Program (Maryland CTP)	2014-2017	--
	Conversion of Runway 4-22 into new Taxiway P (Maryland CTP)	2015-2017	--
	Apron Fill at North Cargo Positions F18/F20 (A)	2016-2017	--
	Concourse E (2-Gate Expansion) (Phase 1 of 4-Gate Expansion)	2016-2018	Water
	Concourse D-E Connector (T)	2015-2017*	--
	Staircase at Concourse B	2017	--
	Midfield Apron Expansion	2017	Water
	Consolidated Rental Car Facility Shuttle Bus Fleet Replacement (Maryland CTP)	2018	AQ
	RTR Relocation	2019	--
	Taxiway T and Pier B Gate Apron Reconstruction (A)	2019	--
	Taxiway B Reconstruction	2019	--
	Demolish and Relocate Taxiway Foxtrot (Stub)	2019	--
	Upgrade BHS at Concourse B-C	2019	--
	Expand SWA Concourse A-B BHS	2019	--

Table 4.30

BWI Marshall On-Airport Cumulative Projects

Time	Project Name	Year	Potential Impact Categories
Future (5 years)	Concourse A Extension (T)	2019	--
	Proposed Improvements 2016-2020 (currently being reviewed environmentally) • Second FBO (S) • Northrop Grumman Hangar (S) • ARFF Expansion Bays (S) • New Airline Maintenance Facility (A)) • Runway Deicing Chemical Storage and Access Road (S) • Airport Maintenance Complex Relocation and Consolidation (S) • Relocate Fire Training Facility (S) • Building 113 Demolition (S) • Relocate Taxiways R, F, K, L, H, V (A) • Taxiway U3 – Phase 1 (A) • International Terminal Area Taxiway Fillets/Shoulders (A) • New Infill Pavement Near Taxiways T, P and Future P (A) • RON Apron (A) • Runway 28 Deicing Pad Expansion (A) • Obstruction Removal • New Sky Bridge C (T) • Terminal Roadway Widening and Access Improvements (L) • Northwest Quadrant Perimeter Road (L) • Runway 15R Deicing Pad Expansion (A) • Upper Level Roadway Widening at Concourse E (L) • VSR Connector (L)	2019-2020	AQ, Water, Noise, Section 4(f), Historic
	Hotel Construction, Hourly Garage Expansion, and Sky Bridge E (L)	2020	Traffic
	Ramp BC and Pier B and C Gate Apron Rehabilitation/Reconstruction	2021	--
	Concourse E (2-Gate Expansion) (Phase 2 of 4-Gate Expansion) (T)	Construct or Under Construction by 2020*	Water
	Helipad Relocation (A)		--
	Taxiway Connectors (between Taxiways T-P) (A)		Water
	New Terminal Response Fire Rescue Station (L)		Water, Traffic
	New Air Traffic Control Tower (S)		--
	Service Station Plaza (M)		Water, Haz. Mat.
	Taxiway Uniform (U) 3 – Phase 2 (A)	2021-2025*	Water
	Runway 15R-33L Extension (A)		Water, Noise, Traffic, EJ
	Widening of Taxiway J (A)		Water
	Airline Cargo Demolition		Haz. Mat.
	Demolition of Maintenance Facilities (A)		Haz. Mat.
	Perimeter Road Improvements (A)		--
	Substation Relocations/Expansions (A)		Water

Table 4.30

BWI Marshall On-Airport Cumulative Projects

Time	Project Name	Year	Potential Impact Categories
	Relocation of I-195/Aviation Blvd (L)		Traffic, Water
	Relocation of Light Rail Tracks and Light Rail Station (L)		Traffic
	Daily Garage Expansion (L)		Traffic
	Limo/Bus/Shared Ride Staging (L)		Water
	New Police Station – northeast of existing GA terminal area (L)		Water
	Co-Gen and Chiller Plant Expansion (L)		Haz. Mat.
	Pump Stations (L)		Haz. Mat.
	Bus Staging Fuel Facility (L)		Haz. Mat.
	Hiker/Biker Trail Relocation (L)		EJ, Traffic
	Consolidation of Long-Term Parking Lots (L)		Traffic

Notes:
[1]Type of Project: (A) – Airfield and Airside improvements; (T) – Terminal enhancement; (S) – Support facility; (L) – Landside; (P) – Private investment project; (M) – MDOT MAA project; (G) – General Aviation.
*Indicates Project Name and/or Year updated based on Draft BWI Marshall ALP Narrative, January 2015. Construction years may vary as airport planning is ongoing.

Off-Airport Projects

The majority of off-airport projects are related to transportation improvements (roadways, MARC stations, MAGLEV) or mixed-use developments. These projects would likely result in temporary construction related impacts (noise, air, transportation). The government agency responsible for the development of each cumulative project would be responsible for obtaining all necessary approvals and permits to minimize impacts. Off-airport transportation and development projects would generally benefit the surrounding communities, and local/regional economy.

Construction

Any impacts associated with construction of the project would be temporary and below significance thresholds. Permit requirements would be adhered to and would minimize or mitigate any potential temporary impacts due to construction. Temporary pollution controls employed by MDOT MAA could include restricting open burning; wetting of active equipment work areas; covering of all trucks hauling loose materials; stabilizing materials, mulch, sandbags, slope drains, sediment checks, artificial covering, and berms. All applicable local, state, and Federal environmental construction controls should be incorporated into the specifications and construction plans necessary for the individual cumulative projects. Further, the noise, emissions and traffic analyses all incorporated both project emissions and expected background emissions that would account for cumulative effects. As the project would only include minor temporary impacts during construction and would not result in any significant impacts to any of the environmental resource categories, the project, when combined with past, present or reasonably foreseeable future actions, would not result in any significant cumulative impacts.

Operations

Any cumulative impacts associated with additional operations related to the Midfield Cargo Facility Improvements (2018 Proposed Action) are inherently cumulative, as the technical analyses conducted for this Technical Report include all of the other non-project operations. Specifically, the noise, air quality, and traffic analyses conducted incorporate the Airport's, FAA's, and/or the State's planning assumptions for growth in future operations at BWI Marshall Airport, as well as new infrastructure and airspace procedures.

The noise and air quality analyses were based on noise contours and air quality baseline emissions that were the subject of extensive comments by the public regarding airspace changes and cumulative noise in early 2018, as well as responses to these comments[14]. As the Midfield Cargo Facility Improvements project would not result in any significant impacts to any of the environmental resource categories, the project, when combined with past, present or reasonably foreseeable future actions, would not result in any significant cumulative impacts.

***Conclusion*:** Based on the types of cumulative projects planned at BWI Marshall Airport and for the area surrounding the Airport, MDOT MAA has concluded that the implementation of the Proposed Action, when combined with past, present or reasonably foreseeable future actions, would not result in any significant cumulative impacts along with the cumulative projects would not result in a significant cumulative impact.

Table 4.31

Summary of Potential Changes to Cumulative Impacts

Impacts		Change (Y/N)	If yes, proposed mitigation
1998 EA Alternative 4R	**Midfield Improvements Proposed Action**		
No significant impact.	No significant impact.	N	N/A

Independent Utility

The proposed project has independent utility as construction of the project is not dependent on subsequent phases or projects. Per 40 CFR 1508.25(a) the proposed project is an unconnected single action in that it will not automatically trigger another action; the construction can proceed without other previous or simultaneous actions; and no other actions are necessary to justify the project. Specifically, this project is fully independent of all other proposed projects at the airport (see Table 5.20). It does not depend on any of these projects (e.g., passenger terminal improvements, passenger carrier maintenance, general aviation facilities, runway deicing fluid facilities, etc.) for its justification nor does it require any of these projects to be implemented. None of the future projects listed in Table 5.20 relate to cargo facility improvements in the midfield. Similarly, none of these other projects rely on this Midfield Cargo Facility Improvement project for their justification or implementation. Further, the project does not overlap geographically with other proposed or ongoing projects or affect reasonable alternatives to them.

5. MITIGATION

This chapter identifies the construction mitigation measures the MDOT MAA proposes in order to reduce or minimize the environmental impacts identified in this Technical Report. The following explanations describe each measure's benefits by noting how the measure would avoid or reduce the adverse environmental effects during construction.

Air Quality

Although construction-related emissions associated with the proposed project would not impact air quality or violate air quality standards during construction and would be temporary in duration, these emissions would be further reduced by employing the following measures: Reduction of exposed erodible surface area through appropriate materials and equipment staging procedures; Cover of exposed surface areas with pavement or vegetation in an expeditious manner; Reduction of equipment idling times; Ensure contractor knowledge of appropriate fugitive dust and equipment exhaust controls; Soil and stock-pile

stabilization via cover or periodic watering; Use of low- or zero-emissions equipment; Use of covered haul trucks and conveyors during materials transportation; Reduction of electrical generator usage, wherever possible; Suspension of construction activities during high-wind conditions; Creation of dust, odor and nuisance reporting system; Daily watering of exposed surfaces and demolition activities; Reduction of vehicles speeds onsite; and Prohibition of open burning for waste disposal.

Biological Resources

In accordance with the BWI Marshall Wildlife Hazard Management Plan (WHMP) (Approved April 25, 2018), habitat management control efforts would be implemented to actively reduce wildlife attractions to the project areas during and after construction.

Hazardous Materials, Solid Waste and Pollution Prevention

If contaminated soils or hazardous wastes are encountered during construction and cannot be aerated, they would be disposed of at a licensed facility in accordance with State and local regulations for any disposal of materials.

Any solid waste generated during construction and operation of the project would be properly disposed of in a manner compliant with all federal, State, and local regulations at a permitted solid waste facility, or recycled, if possible. Airport waste is generally hauled to the Millersville Landfill, located approximately 10 miles from BWI Marshall Airport, however it is dependent on the waste hauler chosen for the project.

Historical, Architectural, Archeological, and Cultural Resources

If during construction, any unmarked burial sites, or prehistoric or historic artifacts are encountered, construction would stop and the MAA would follow the procedures established in the BWI Marshall Airport HPP.

Noise and Noise-Compatible Land Use

Noise during construction would be short-term in nature, lasting for the duration of construction activities. Temporary noise impacts would be generally localized at the vicinity of the construction site and the localized increase in noise levels would not disrupt normal airport operations or activities.

Water Resources

If uncontrolled, construction activities have the potential to cause erosion and sedimentation that can impact water quality. Short-term construction impacts would be minimized by strict adherence to erosion and sediment control procedures. BMPs would be used to avoid and minimize any potential impacts to the environment during construction and for the control of stormwater for quantity and quality.

6. Required Permits and Notifications

- MAA Building Permit
- MAA Airport Zoning Permit
- FAA 7460/Construction Safety and Phasing Plan (CSPP) approval
- NPDES Construction General Permit
- MDE Stormwater Management and Erosion and Sediment Control Permit

7. AGENCY AND PUBLIC INVOLVEMENT

7.1 AGENCY COORDINATION

Coordination with the MHT and the MDE Coastal Consistency Coordinator was conducted for the Proposed Action to ensure that updates to impacts for these resource categories remained valid. Agency coordination documentation is included in the appendices identified within the relevant resource category section.

7.2 PUBLIC INVOLVEMENT

The designation of the land use and the development of improvements for use of the Midfield as a cargo area had extensive public involvement and opportunities for comment through the 1998 EA. The current project reflects implementation of that planning process. It does not create any new or unanticipated use of the Midfield Cargo Facility.

In accordance with FAA Order 1050.1F, Re-Evaluations should be reviewed internally and may be made public at the discretion of the FAA, however no public notification is required. Following completion of the Written Re-Evaluation by the FAA (and any subsequent analysis, if any, that FAA conducts), it will be posted for public disclosure (notice) on the MDOT MAA website.

8. CONCLUSION

Based on the analysis presented in *Section 4.4*, there are no meaningful differences of impacts to any environmental criteria between the 1998 *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport* and the proposed Midfield Cargo Facility Improvements (Proposed Action). All impacts and mitigation efforts identified in the 1998 EA that pertain to the Proposed Action have been updated to incorporate new federal, state and local guidance.

NOTES

[1] MAA, BWI Master Plan Technical Report, 2011, p. 1-120 through 1-128.

[2] Includes both freight and mail volumes, MAA Monthly Statistical Report Summaries

[3] MAA, *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, May 1998, pp. II-12 through II-14.

[4] MAA, *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, May 1998, pp. II-12 through II-14.

[5] MAA, *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, May 1998, pp. I-15.

[6] MAA, *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, May 1998, p. I-15.

[7] MAA, *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*, May 1998, p. I-15.

[8] The 1998 EA LOD encompassed three areas: the proposed taxiway area north of Runway 10-28, the Midfield Cargo Area, and the stockpile area. The current Proposed Action is limited to the Midfield Cargo Area LOD and therefore this is the only 1998 EA LOD discussed and shown on Figure 4.

[9] FAA Order 1050.1F Desk Reference (July 2015), p. 3-1, http://www.faa.gov/about/office_org/headquarters_offices/apl/environ_policy_guidance/policy/faa_nepa_order/desk_ref/media/3-climate.pdf, accessed 9/8/16.

[10] At the time MDOT MAA initiated coordination with MDE for the project, the MDOT MAA believed the project was to be environmentally reviewed using a Categorical Exclusion to fulfill NEPA requirements. In cooperation with the FAA, it was subsequently determined that a Re-Evaluation of the 1998 EA was a more appropriate means to fulfill NEPA requirements. Additionally, note that coordination with the MDE originally included a project that has since been eliminated from the Proposed Action (proposed gravity pipe with glycol collection tanks).

[11] http://www.soilsafe.com/index.php/facilities/brandywine (accessed 9/18/18).

[12] At the time MDOT MAA initiated coordination with MHT for the project, the MDOT MAA believed the project was to be environmentally reviewed using a Categorical Exclusion to fulfill NEPA requirements. In cooperation with the FAA, it was subsequently determined that a Re-Evaluation of the 1998 EA was a more appropriate means to fulfill NEPA requirements. Additionally, note that coordination with the MHT originally included a project that has since been eliminated from the Proposed Action (proposed gravity pipe with glycol collection tanks).

[13] The independent study is referenced in the 1989 BWI NCP (Sec. 4.5 pg. 170), as “Aircraft Noise Impact on Anne Arundel County Public Schools In the Vicinity of BWI Airport.”

[14] The *Draft EA and Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport* (January 2018) received extensive comments on the impacts to the community due to implementation of the D.C. Metroplex Project. Confirmation of the incorporation of the D.C. Metroplex proposed procedures into the noise analysis included in the Draft EA and Section 4(f) Determination was undertaken to respond to these comments. The Draft EA and Section 4(f) Determination is expected to be re-issued in early 2019 with responses provided to comments on this topic which clarify the incorporation of the D.C. Metroplex project within the noise analysis for the years 2016, 2020 and 2025.

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APPENDIX A

Air Quality

Project Scenario - Historical Weather Data

Scenario 1 - Winter Weather (Nov-Dec)						
	2017	**2016**	**2015**	**2014**	**2013**	**AVG**
Avg Daily Temp	41	44	50	42	42	43.8
Max. Daily Temp	50	54	60	50	50	52.8
Min. Daily Temp	31	33	40	33	33	34
Max. Temp Change	9	10	10	8	8	9
Min. Temp Change	10	11	10	9	9	9.8

Sceanrio 2 - Winter Weather (Jan-March)						
	2017	**2016**	**2015**	**2014**	**2013**	**AVG**
Avg Daily Temp	43	40	32	33	38	37.2
Max. Daily Temp	52	50	42	43	46	46.6
Min. Daily Temp	33	30	23	23	30	27.8
Max. Temp Change	9	10	10	10	8	9.4
Min. Temp Change	10	10	9	10	8	9.4

Scenario 3 - Summer Weather (April-September)						
	2017	**2016**	**2015**	**2014**	**2013**	**AVG**
Avg Daily Temp	70	70	71	68	69	69.6
Max. Daily Temp	80	80	81	78	79	79.6
Min. Daily Temp	60	60	60	58	59	59.4
Max. Temp Change	10	10	10	10	10	10
Min. Temp Change	10	10	11	10	10	10.2

Source: Weather Underground Historical Data for KBWI, http://www.wunderground.com

ACEIT Construction Schedule Assumptions

				Scenario 1		Scenario 2			Scenario 3						Total Cost
Project Type	**Pavement Type**	**Area**	**Dimensions**	**Nov**	**Dec**	**Jan**	**Feb**	**March**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sept**	
Cargo Apron	Concrete	11.04	250' x 1925'	$2.67, 428'L		$4.0, 642'L			$5.33, 855'L						12
Building	-	4.59	200,000 SF			$12.5, 100,000 SF			$12.5, 100,000 SF						25
Parking Lot (includes all vehicle pavement and truck staging)	Asphalt	16.70	150' x 4850'	$0.3, 970'L		$0.45, 1455'L			$0.75, 2425'L						2
Fuel Tanks (includes fuel and glycol tanks)	Concrete	0.95	100' x 415'						5 tanks - 4' depth						2
Taxiway	Asphalt	2.77	100' x 1205'									$2, 1205'L			2
Drainage System (gravity pipe)	-	-	20' x 600'									$1.5, 600'L			1.5
Runway Rehab (represents mill and overlay of existing apron area)	Asphalt	21.09	250'x3675'	$1.5, 3675'L											1.5

ACEIT Default

Asphalt Application Rates

ACEIT Input - Default Asphalt Application Rates

Airport Constrcution Emission Inventory Tool (ACEIT)
Version 1.0

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Setup
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Study Name
BWI Midfield Improvements

Study Description

State/County
Maryland
Anne Arundel County

Scenarios

Scenario ID	Year	Number of Season		Average Da	Max Daily T	Min Daily Temp Change (degF)
1	2018	2	Winter	30 < T <= 5	0 <= Chang	0 <= Change in T < 10
2	2019	3	Winter	30 < T <= 5	0 <= Chang	0 <= Change in T < 10
3	2019	6	Summer	50 < T <= 8	10 <= Chan	10 <= Change in T < 20
4						

==========
Project
--

Scenario ID
1
2
3

Selected Project

1	Cargo Aprc	SetSelected	
1	Parking Lot	SetSelected	
1	Rehabilitat	SetSelected	
2	Building - 1	SetSelected	
2	Cargo Aprc	SetSelected	
2	Parking Lot	SetSelected	
3	Taxiways	SetSelected	

Selected Construction Activities

1	Cargo Aprc	Clearing an	SetSelected
1	Cargo Aprc	Concrete P	SetSelected
1	Cargo Aprc	Drainage -	SetSelected
1	Cargo Aprc	Drainage -	SetSelected
1	Cargo Aprc	Dust Contr	SetSelected
1	Cargo Aprc	Excavation	SetSelected
1	Cargo Aprc	Excavation	SetSelected
1	Cargo Aprc	Excavation	SetSelected
1	Cargo Aprc	Fencing	SetSelected
1	Cargo Aprc	Grading	SetSelected
1	Cargo Aprc	Hydroseed	SetSelected
1	Cargo Aprc	Lighting	SetSelected
1	Cargo Aprc	Markings	SetSelected
1	Cargo Aprc	Sealing/Fu	SetSelected
1	Cargo Aprc	Soil Erosior	SetSelected
1	Cargo Aprc	Subbase Pl	SetSelected
1	Cargo Aprc	Topsoil Pla	SetSelected
1	Parking Lot	Asphalt Pla	SetSelected
1	Parking Lot	Clearing an	SetSelected
1	Parking Lot	Curbing	SetSelected
1	Parking Lot	Drainage -	SetSelected
1	Parking Lot	Drainage -	SetSelected
1	Parking Lot	Excavation	SetSelected
1	Parking Lot	Excavation	SetSelected
1	Parking Lot	Excavation	SetSelected
1	Parking Lot	Fencing	SetSelected
1	Parking Lot	Grading	SetSelected
1	Parking Lot	Hydroseed	SetSelected
1	Parking Lot	Markings	SetSelected
1	Parking Lot	Sidewalks	SetSelected
1	Parking Lot	Soil Erosior	SetSelected
1	Parking Lot	Street Ligh	SetSelected
1	Parking Lot	Subbase Pl	SetSelected
1	Parking Lot	Topsoil Pla	SetSelected
1	Parking Lot	Tree Planti	SetSelected
1	Rehabilitat	Asphalt Pla	SetSelected
1	Rehabilitat	Cold Millin	SetSelected
1	Rehabilitat	Dust Contr	SetSelected
1	Rehabilitat	Excavation	SetSelected
1	Rehabilitat	Excavation	SetSelected
1	Rehabilitat	Grading	SetSelected
1	Rehabilitat	Hydroseed	SetSelected
1	Rehabilitat	Lighting	SetSelected
1	Rehabilitat	Markings	SetSelected
1	Rehabilitat	Sealing Rar	SetSelected
1	Rehabilitat	Soil Erosior	SetSelected
1	Rehabilitat	Subbase Pl	SetSelected
1	Rehabilitat	Topsoil Pla	SetSelected
2	Building - 1	Concrete F	SetSelected
2	Building - 1	Constructic	SetSelected
2	Building - 1	Exterior W	SetSelected
2	Building - 1	Interior Bu	SetSelected
2	Building - 1	Roofing	SetSelected
2	Building - 1	Security &	SetSelected
2	Building - 1	Structural S	SetSelected
2	Cargo Aprc	Clearing an	SetSelected
2	Cargo Aprc	Concrete P	SetSelected
2	Cargo Aprc	Drainage -	SetSelected
2	Cargo Aprc	Drainage -	SetSelected
2	Cargo Aprc	Dust Contr	SetSelected
2	Cargo Aprc	Excavation	SetSelected
2	Cargo Aprc	Excavation	SetSelected
2	Cargo Aprc	Excavation	SetSelected
2	Cargo Aprc	Fencing	SetSelected
2	Cargo Aprc	Grading	SetSelected
2	Cargo Aprc	Hydroseed	SetSelected
2	Cargo Aprc	Lighting	SetSelected
2	Cargo Aprc	Markings	SetSelected
2	Cargo Aprc	Sealing/Fu	SetSelected
2	Cargo Aprc	Soil Erosior	SetSelected
2	Cargo Aprc	Subbase Pl	SetSelected
2	Cargo Aprc	Topsoil Pla	SetSelected
2	Parking Lot	Asphalt Pla	SetSelected
2	Parking Lot	Clearing an	SetSelected
2	Parking Lot	Curbing	SetSelected
2	Parking Lot	Drainage -	SetSelected
2	Parking Lot	Drainage -	SetSelected
2	Parking Lot	Excavation	SetSelected
2	Parking Lot	Excavation	SetSelected
2	Parking Lot	Excavation	SetSelected
2	Parking Lot	Fencing	SetSelected
2	Parking Lot	Grading	SetSelected
2	Parking Lot	Hydroseed	SetSelected
2	Parking Lot	Markings	SetSelected
2	Parking Lot	Sidewalks	SetSelected
2	Parking Lot	Soil Erosior	SetSelected
2	Parking Lot	Street Ligh	SetSelected
2	Parking Lot	Subbase Pl	SetSelected
2	Parking Lot	Topsoil Pla	SetSelected
2	Parking Lot	Tree Planti	SetSelected
3	Building - 1	Concrete F	SetSelected
3	Building - 1	Constructic	SetSelected
3	Building - 1	Exterior W	SetSelected
3	Building - 1	Interior Bu	SetSelected
3	Building - 1	Roofing	SetSelected
3	Building - 1	Security &	SetSelected
3	Building - 1	Structural S	SetSelected
3	Cargo Aprc	Clearing an	SetSelected
3	Cargo Aprc	Concrete P	SetSelected
3	Cargo Aprc	Drainage -	SetSelected
3	Cargo Aprc	Drainage -	SetSelected
3	Cargo Aprc	Dust Contr	SetSelected
3	Cargo Aprc	Excavation	SetSelected
3	Cargo Aprc	Excavation	SetSelected
3	Cargo Aprc	Excavation	SetSelected
3	Cargo Aprc	Fencing	SetSelected
3	Cargo Aprc	Grading	SetSelected
3	Cargo Aprc	Hydroseed	SetSelected
3	Cargo Aprc	Lighting	SetSelected
3	Cargo Aprc	Markings	SetSelected
3	Cargo Aprc	Sealing/Fu	SetSelected
3	Cargo Aprc	Soil Erosior	SetSelected
3	Cargo Aprc	Subbase Pl	SetSelected
3	Cargo Aprc	Topsoil Pla	SetSelected
3	Drainage S	Drainage -	SetSelected
3	Drainage S	Drainage -	SetSelected
3	Drainage S	Drainage S	SetSelected
3	Drainage S	Hydroseed	SetSelected
3	Drainage S	Soil Erosior	SetSelected
3	Drainage S	Topsoil Pla	SetSelected
3	Fuel Tanks	Clearing an	SetSelected
3	Fuel Tanks	Concrete P	SetSelected
3	Fuel Tanks	Constructic	SetSelected
3	Fuel Tanks	Drainage -	SetSelected
3	Fuel Tanks	Drainage	SetSelected
3	Fuel Tanks	Dust Contr	SetSelected
3	Fuel Tanks	Excavation	SetSelected
3	Fuel Tanks	Excavation	SetSelected

ACEIT Input - Default Asphalt Application Rates

3	Fuel Tanks	Excavation	SetSelected
3	Fuel Tanks	Fencing	SetSelected
3	Fuel Tanks	Grading	SetSelected
3	Fuel Tanks	Hydroseed	SetSelected
3	Fuel Tanks	Markings	SetSelected
3	Fuel Tanks	Soil Erosior	SetSelected
3	Fuel Tanks	Street Ligh	SetSelected
3	Fuel Tanks	Subbase Pl	SetSelected
3	Fuel Tanks	Topsoil Pla	SetSelected
3	Parking Lot	Asphalt Pla	SetSelected
3	Parking Lot	Clearing an	SetSelected
3	Parking Lot	Curbing	SetSelected
3	Parking Lot	Drainage -	SetSelected
3	Parking Lot	Drainage -	SetSelected
3	Parking Lot	Excavation	SetSelected
3	Parking Lot	Excavation	SetSelected
3	Parking Lot	Excavation	SetSelected
3	Parking Lot	Fencing	SetSelected
3	Parking Lot	Grading	SetSelected
3	Parking Lot	Hydroseed	SetSelected
3	Parking Lot	Markings	SetSelected
3	Parking Lot	Sidewalks	SetSelected
3	Parking Lot	Soil Erosior	SetSelected
3	Parking Lot	Street Ligh	SetSelected
3	Parking Lot	Subbase Pl	SetSelected
3	Parking Lot	Topsoil Pla	SetSelected
3	Parking Lot	Tree Planti	SetSelected
3	Taxiways	Asphalt Pla	SetSelected
3	Taxiways	Clearing an	SetSelected
3	Taxiways	Drainage -	SetSelected
3	Taxiways	Drainage -	SetSelected
3	Taxiways	Dust Contr	SetSelected
3	Taxiways	Excavation	SetSelected
3	Taxiways	Excavation	SetSelected
3	Taxiways	Excavation	SetSelected
3	Taxiways	Fencing	SetSelected
3	Taxiways	Grading	SetSelected
3	Taxiways	Hydroseed	SetSelected
3	Taxiways	Lighting	SetSelected
3	Taxiways	Markings	SetSelected
3	Taxiways	Soil Erosior	SetSelected
3	Taxiways	Subbase Pl	SetSelected
3	Taxiways	Topsoil Pla	SetSelected

Selected Fuel Types

1	Diesel
2	Diesel
3	Diesel

Selected Equipment

1	Cargo Aprc	Clearing an	Chain Saw	SetSelected
1	Cargo Aprc	Clearing an	Chipper/St	SetSelected
1	Cargo Aprc	Clearing an	Pickup Truc	SetSelected
1	Cargo Aprc	Concrete P	Air Compre	SetSelected
1	Cargo Aprc	Concrete P	Concrete S	SetSelected
1	Cargo Aprc	Concrete P	Concrete T	SetSelected
1	Cargo Aprc	Concrete P	Other Gene	SetSelected
1	Cargo Aprc	Concrete P	Pickup Truc	SetSelected
1	Cargo Aprc	Concrete P	Rubber Tire	SetSelected
1	Cargo Aprc	Concrete P	Slip Form P	SetSelected
1	Cargo Aprc	Concrete P	Surfacing E	SetSelected
1	Cargo Aprc	Drainage -	Dozer	SetSelected
1	Cargo Aprc	Drainage -	Dump Truc	SetSelected
1	Cargo Aprc	Drainage -	Excavator	SetSelected
1	Cargo Aprc	Drainage -	Loader	SetSelected
1	Cargo Aprc	Drainage -	Other Gene	SetSelected
1	Cargo Aprc	Drainage -	Pickup Truc	SetSelected
1	Cargo Aprc	Drainage -	Roller	SetSelected
1	Cargo Aprc	Drainage -	Dump Truc	SetSelected
1	Cargo Aprc	Drainage -	Loader	SetSelected
1	Cargo Aprc	Drainage -	Other Gene	SetSelected
1	Cargo Aprc	Drainage -	Pickup Truc	SetSelected
1	Cargo Aprc	Drainage -	Tractors/Lc	SetSelected
1	Cargo Aprc	Dust Contr	Water Truc	SetSelected
1	Cargo Aprc	Excavation	Dozer	SetSelected
1	Cargo Aprc	Excavation	Dump Truc	SetSelected
1	Cargo Aprc	Excavation	Pickup Truc	SetSelected
1	Cargo Aprc	Excavation	Roller	SetSelected
1	Cargo Aprc	Excavation	Dozer	SetSelected
1	Cargo Aprc	Excavation	Dump Truc	SetSelected
1	Cargo Aprc	Excavation	Excavator	SetSelected
1	Cargo Aprc	Excavation	Pickup Truc	SetSelected
1	Cargo Aprc	Excavation	Roller	SetSelected
1	Cargo Aprc	Excavation	Scraper	SetSelected
1	Cargo Aprc	Excavation	Dozer	SetSelected
1	Cargo Aprc	Fencing	Concrete T	SetSelected
1	Cargo Aprc	Fencing	Dump Truc	SetSelected
1	Cargo Aprc	Fencing	Other Gene	SetSelected
1	Cargo Aprc	Fencing	Pickup Truc	SetSelected
1	Cargo Aprc	Fencing	Skid Steer I	SetSelected
1	Cargo Aprc	Fencing	Tractors/Lc	SetSelected
1	Cargo Aprc	Grading	Dozer	SetSelected
1	Cargo Aprc	Grading	Grader	SetSelected
1	Cargo Aprc	Grading	Roller	SetSelected
1	Cargo Aprc	Hydroseed	Hydroseed	SetSelected
1	Cargo Aprc	Hydroseed	Off-Road T	SetSelected
1	Cargo Aprc	Lighting	Dump Truc	SetSelected
1	Cargo Aprc	Lighting	Loader	SetSelected
1	Cargo Aprc	Lighting	Other Gene	SetSelected
1	Cargo Aprc	Lighting	Pickup Truc	SetSelected
1	Cargo Aprc	Lighting	Skid Steer I	SetSelected
1	Cargo Aprc	Lighting	Tractors/Lc	SetSelected
1	Cargo Aprc	Markings	Flatbed Tru	SetSelected
1	Cargo Aprc	Markings	Other Gene	SetSelected
1	Cargo Aprc	Markings	Pickup Truc	SetSelected
1	Cargo Aprc	Sealing/Fu	Distributing	SetSelected
1	Cargo Aprc	Sealing/Fu	Other Gene	SetSelected
1	Cargo Aprc	Sealing/Fu	Pickup Truc	SetSelected
1	Cargo Aprc	Soil Erosior	Other Gene	SetSelected
1	Cargo Aprc	Soil Erosior	Pickup Truc	SetSelected
1	Cargo Aprc	Soil Erosior	Pumps	SetSelected
1	Cargo Aprc	Soil Erosior	Tractors/Lc	SetSelected
1	Cargo Aprc	Subbase Pl	Dozer	SetSelected
1	Cargo Aprc	Subbase Pl	Dump Truc	SetSelected
1	Cargo Aprc	Subbase Pl	Pickup Truc	SetSelected
1	Cargo Aprc	Subbase Pl	Roller	SetSelected
1	Cargo Aprc	Topsoil Pla	Dozer	SetSelected
1	Cargo Aprc	Topsoil Pla	Dump Truc	SetSelected
1	Cargo Aprc	Topsoil Pla	Pickup Truc	SetSelected
1	Parking Lot	Asphalt Pla	Asphalt Pa	SetSelected
1	Parking Lot	Asphalt Pla	Dump Truc	SetSelected
1	Parking Lot	Asphalt Pla	Other Gene	SetSelected
1	Parking Lot	Asphalt Pla	Pickup Truc	SetSelected
1	Parking Lot	Asphalt Pla	Roller	SetSelected
1	Parking Lot	Asphalt Pla	Skid Steer I	SetSelected
1	Parking Lot	Asphalt Pla	Surfacing E	SetSelected
1	Parking Lot	Clearing an	Chain Saw	SetSelected
1	Parking Lot	Clearing an	Chipper/St	SetSelected
1	Parking Lot	Clearing an	Pickup Truc	SetSelected
1	Parking Lot	Curbing	Concrete T	SetSelected
1	Parking Lot	Curbing	Curb/Gutte	SetSelected
1	Parking Lot	Curbing	Other Gene	SetSelected
1	Parking Lot	Curbing	Pickup Truc	SetSelected
1	Parking Lot	Drainage -	Dozer	SetSelected
1	Parking Lot	Drainage -	Dump Truc	SetSelected
1	Parking Lot	Drainage -	Excavator	SetSelected
1	Parking Lot	Drainage -	Loader	SetSelected
1	Parking Lot	Drainage -	Other Gene	SetSelected
1	Parking Lot	Drainage -	Pickup Truc	SetSelected
1	Parking Lot	Drainage -	Roller	SetSelected
1	Parking Lot	Drainage -	Dump Truc	SetSelected
1	Parking Lot	Drainage -	Loader	SetSelected
1	Parking Lot	Drainage -	Other Gene	SetSelected
1	Parking Lot	Drainage -	Pickup Truc	SetSelected
1	Parking Lot	Drainage -	Tractors/Lc	SetSelected
1	Parking Lot	Excavation	Dozer	SetSelected
1	Parking Lot	Excavation	Dump Truc	SetSelected
1	Parking Lot	Excavation	Pickup Truc	SetSelected
1	Parking Lot	Excavation	Roller	SetSelected
1	Parking Lot	Excavation	Dozer	SetSelected
1	Parking Lot	Excavation	Dump Truc	SetSelected
1	Parking Lot	Excavation	Excavator	SetSelected
1	Parking Lot	Excavation	Pickup Truc	SetSelected
1	Parking Lot	Excavation	Roller	SetSelected
1	Parking Lot	Excavation	Scraper	SetSelected
1	Parking Lot	Excavation	Dozer	SetSelected
1	Parking Lot	Fencing	Concrete T	SetSelected
1	Parking Lot	Fencing	Dump Truc	SetSelected
1	Parking Lot	Fencing	Other Gene	SetSelected
1	Parking Lot	Fencing	Pickup Truc	SetSelected
1	Parking Lot	Fencing	Skid Steer I	SetSelected
1	Parking Lot	Fencing	Tractors/Lc	SetSelected
1	Parking Lot	Grading	Dozer	SetSelected
1	Parking Lot	Grading	Grader	SetSelected
1	Parking Lot	Grading	Roller	SetSelected
1	Parking Lot	Hydroseed	Hydroseed	SetSelected
1	Parking Lot	Hydroseed	Off-Road T	SetSelected
1	Parking Lot	Markings	Flatbed Tru	SetSelected
1	Parking Lot	Markings	Other Gene	SetSelected
1	Parking Lot	Markings	Pickup Truc	SetSelected
1	Parking Lot	Sidewalks	Concrete T	SetSelected
1	Parking Lot	Sidewalks	Dump Truc	SetSelected

ACEIT Input - Default Asphalt Application Rates

1	Parking Lot	Sidewalks	Pickup Truc	SetSelected
1	Parking Lot	Sidewalks	Tractors/Lc	SetSelected
1	Parking Lot	Sidewalks	Vibratory C	SetSelected
1	Parking Lot	Soil Erosior	Other Gene	SetSelected
1	Parking Lot	Soil Erosior	Pickup Truc	SetSelected
1	Parking Lot	Soil Erosior	Pumps	SetSelected
1	Parking Lot	Soil Erosior	Tractors/Lc	SetSelected
1	Parking Lot	Street Ligh	Dump Truc	SetSelected
1	Parking Lot	Street Ligh	Loader	SetSelected
1	Parking Lot	Street Ligh	Other Gene	SetSelected
1	Parking Lot	Street Ligh	Pickup Truc	SetSelected
1	Parking Lot	Street Ligh	Skid Steer I	SetSelected
1	Parking Lot	Street Ligh	Tractors/Lc	SetSelected
1	Parking Lot	Subbase Pl	Dozer	SetSelected
1	Parking Lot	Subbase Pl	Dump Truc	SetSelected
1	Parking Lot	Subbase Pl	Pickup Truc	SetSelected
1	Parking Lot	Subbase Pl	Roller	SetSelected
1	Parking Lot	Topsoil Pla	Dozer	SetSelected
1	Parking Lot	Topsoil Pla	Dump Truc	SetSelected
1	Parking Lot	Topsoil Pla	Pickup Truc	SetSelected
1	Parking Lot	Tree Planti	Flatbed Tru	SetSelected
1	Parking Lot	Tree Planti	Other Gene	SetSelected
1	Parking Lot	Tree Planti	Pickup Truc	SetSelected
1	Parking Lot	Tree Planti	Tractors/Lc	SetSelected
1	Rehabilitat	Asphalt Pla	Asphalt Pa	SetSelected
1	Rehabilitat	Asphalt Pla	Dump Truc	SetSelected
1	Rehabilitat	Asphalt Pla	Other Gene	SetSelected
1	Rehabilitat	Asphalt Pla	Pickup Truc	SetSelected
1	Rehabilitat	Asphalt Pla	Roller	SetSelected
1	Rehabilitat	Asphalt Pla	Skid Steer I	SetSelected
1	Rehabilitat	Asphalt Pla	Surfacing E	SetSelected
1	Rehabilitat	Cold Millin	Cold Planer	SetSelected
1	Rehabilitat	Cold Millin	Dump Truc	SetSelected
1	Rehabilitat	Cold Millin	Pickup Truc	SetSelected
1	Rehabilitat	Cold Millin	Sweepers	SetSelected
1	Rehabilitat	Cold Millin	Water Truc	SetSelected
1	Rehabilitat	Dust Contr	Water Truc	SetSelected
1	Rehabilitat	Excavation	Dozer	SetSelected
1	Rehabilitat	Excavation	Dump Truc	SetSelected
1	Rehabilitat	Excavation	Excavator	SetSelected
1	Rehabilitat	Excavation	Pickup Truc	SetSelected
1	Rehabilitat	Excavation	Roller	SetSelected
1	Rehabilitat	Excavation	Dozer	SetSelected
1	Rehabilitat	Grading	Dozer	SetSelected
1	Rehabilitat	Grading	Grader	SetSelected
1	Rehabilitat	Grading	Roller	SetSelected
1	Rehabilitat	Hydroseed	Hydroseed	SetSelected
1	Rehabilitat	Hydroseed	Off-Road T	SetSelected
1	Rehabilitat	Lighting	Dump Truc	SetSelected
1	Rehabilitat	Lighting	Loader	SetSelected
1	Rehabilitat	Lighting	Other Gene	SetSelected
1	Rehabilitat	Lighting	Pickup Truc	SetSelected
1	Rehabilitat	Lighting	Skid Steer I	SetSelected
1	Rehabilitat	Lighting	Tractors/Lc	SetSelected
1	Rehabilitat	Markings	Flatbed Tru	SetSelected
1	Rehabilitat	Markings	Other Gene	SetSelected
1	Rehabilitat	Markings	Pickup Truc	SetSelected
1	Rehabilitat	Sealing Rar	Crack Clear	SetSelected
1	Rehabilitat	Sealing Rar	Crack Filler	SetSelected
1	Rehabilitat	Sealing Rar	Flatbed Tru	SetSelected
1	Rehabilitat	Sealing Rar	Other Gene	SetSelected
1	Rehabilitat	Sealing Rar	Pickup Truc	SetSelected
1	Rehabilitat	Soil Erosior	Other Gene	SetSelected
1	Rehabilitat	Soil Erosior	Pickup Truc	SetSelected
1	Rehabilitat	Soil Erosior	Pumps	SetSelected
1	Rehabilitat	Soil Erosior	Tractors/Lc	SetSelected
1	Rehabilitat	Subbase Pl	Dozer	SetSelected
1	Rehabilitat	Subbase Pl	Dump Truc	SetSelected
1	Rehabilitat	Subbase Pl	Pickup Truc	SetSelected
1	Rehabilitat	Subbase Pl	Roller	SetSelected
1	Rehabilitat	Topsoil Pla	Dozer	SetSelected
1	Rehabilitat	Topsoil Pla	Dump Truc	SetSelected
1	Rehabilitat	Topsoil Pla	Pickup Truc	SetSelected
2	Building - 1	Concrete F	Backhoe	SetSelected
2	Building - 1	Concrete F	Concrete P	SetSelected
2	Building - 1	Concrete F	Concrete R	SetSelected
2	Building - 1	Concrete F	Excavator	SetSelected
2	Building - 1	Concrete F	Fork Truck	SetSelected
2	Building - 1	Concrete F	Tool Truck	SetSelected
2	Building - 1	Concrete F	Tractor Tra	SetSelected
2	Building - 1	Constructic	Survey Cre	SetSelected
2	Building - 1	Constructic	Tractor Tra	SetSelected
2	Building - 1	Exterior W	Fork Truck	SetSelected
2	Building - 1	Exterior W	Generator	SetSelected
2	Building - 1	Exterior W	Grout Mixe	SetSelected
2	Building - 1	Exterior W	Grout Whe	SetSelected
2	Building - 1	Exterior W	Man Lift	SetSelected
2	Building - 1	Exterior W	Tool Truck	SetSelected
2	Building - 1	Exterior W	Tractor Tra	SetSelected
2	Building - 1	Exterior W	Truck Towe	SetSelected
2	Building - 1	Interior Bu	Fork Truck	SetSelected
2	Building - 1	Interior Bu	Man Lift	SetSelected
2	Building - 1	Interior Bu	Tool Truck	SetSelected
2	Building - 1	Interior Bu	Tractor Tra	SetSelected
2	Building - 1	Roofing	High Lift	SetSelected
2	Building - 1	Roofing	Man Lift	SetSelected
2	Building - 1	Roofing	Material Dı	SetSelected
2	Building - 1	Roofing	Tractor Tra	SetSelected
2	Building - 1	Roofing	Truck Towe	SetSelected
2	Building - 1	Security &	High Lift	SetSelected
2	Building - 1	Security &	Tool Truck	SetSelected
2	Building - 1	Structural S	90 Ton Cra	SetSelected
2	Building - 1	Structural S	Concrete P	SetSelected
2	Building - 1	Structural S	Concrete T	SetSelected
2	Building - 1	Structural S	Fork Truck	SetSelected
2	Building - 1	Structural S	Tool Truck	SetSelected
2	Building - 1	Structural S	Tractor Tra	SetSelected
2	Building - 1	Structural S	Trowel Ma	SetSelected
2	Building - 1	Structural S	Truck Towe	SetSelected
2	Cargo Apro	Clearing an	Chain Saw	SetSelected
2	Cargo Apro	Clearing an	Chipper/St	SetSelected
2	Cargo Apro	Clearing an	Pickup Truc	SetSelected
2	Cargo Apro	Concrete P	Air Compre	SetSelected
2	Cargo Apro	Concrete P	Concrete S	SetSelected
2	Cargo Apro	Concrete P	Concrete T	SetSelected
2	Cargo Apro	Concrete P	Other Gene	SetSelected
2	Cargo Apro	Concrete P	Pickup Truc	SetSelected
2	Cargo Apro	Concrete P	Rubber Tir	SetSelected
2	Cargo Apro	Concrete P	Slip Form P	SetSelected
2	Cargo Apro	Concrete P	Surfacing E	SetSelected
2	Cargo Apro	Drainage -	Dozer	SetSelected
2	Cargo Apro	Drainage -	Dump Truc	SetSelected
2	Cargo Apro	Drainage -	Excavator	SetSelected
2	Cargo Apro	Drainage -	Loader	SetSelected
2	Cargo Apro	Drainage -	Other Gene	SetSelected
2	Cargo Apro	Drainage -	Pickup Truc	SetSelected
2	Cargo Apro	Drainage -	Roller	SetSelected
2	Cargo Apro	Drainage -	Dump Truc	SetSelected
2	Cargo Apro	Drainage -	Loader	SetSelected
2	Cargo Apro	Drainage -	Other Gene	SetSelected
2	Cargo Apro	Drainage -	Pickup Truc	SetSelected
2	Cargo Apro	Drainage -	Tractors/Lc	SetSelected
2	Cargo Apro	Dust Contr	Water Truc	SetSelected
2	Cargo Apro	Excavation	Dozer	SetSelected
2	Cargo Apro	Excavation	Dump Truc	SetSelected
2	Cargo Apro	Excavation	Pickup Truc	SetSelected
2	Cargo Apro	Excavation	Roller	SetSelected
2	Cargo Apro	Excavation	Dozer	SetSelected
2	Cargo Apro	Excavation	Dump Truc	SetSelected
2	Cargo Apro	Excavation	Excavator	SetSelected
2	Cargo Apro	Excavation	Pickup Truc	SetSelected
2	Cargo Apro	Excavation	Roller	SetSelected
2	Cargo Apro	Excavation	Scraper	SetSelected
2	Cargo Apro	Excavation	Dozer	SetSelected
2	Cargo Apro	Fencing	Concrete T	SetSelected
2	Cargo Apro	Fencing	Dump Truc	SetSelected
2	Cargo Apro	Fencing	Other Gene	SetSelected
2	Cargo Apro	Fencing	Pickup Truc	SetSelected
2	Cargo Apro	Fencing	Skid Steer I	SetSelected
2	Cargo Apro	Fencing	Tractors/Lc	SetSelected
2	Cargo Apro	Grading	Dozer	SetSelected
2	Cargo Apro	Grading	Grader	SetSelected
2	Cargo Apro	Grading	Roller	SetSelected
2	Cargo Apro	Hydroseed	Hydroseed	SetSelected
2	Cargo Apro	Hydroseed	Off-Road T	SetSelected
2	Cargo Apro	Lighting	Dump Truc	SetSelected
2	Cargo Apro	Lighting	Loader	SetSelected
2	Cargo Apro	Lighting	Other Gene	SetSelected
2	Cargo Apro	Lighting	Pickup Truc	SetSelected
2	Cargo Apro	Lighting	Skid Steer I	SetSelected
2	Cargo Apro	Lighting	Tractors/Lc	SetSelected
2	Cargo Apro	Markings	Flatbed Tru	SetSelected
2	Cargo Apro	Markings	Other Gene	SetSelected
2	Cargo Apro	Markings	Pickup Truc	SetSelected
2	Cargo Apro	Sealing/Fu	Distributing	SetSelected
2	Cargo Apro	Sealing/Fu	Other Gene	SetSelected
2	Cargo Apro	Sealing/Fu	Pickup Truc	SetSelected
2	Cargo Apro	Soil Erosior	Other Gene	SetSelected
2	Cargo Apro	Soil Erosior	Pickup Truc	SetSelected
2	Cargo Apro	Soil Erosior	Pumps	SetSelected
2	Cargo Apro	Soil Erosior	Tractors/Lc	SetSelected
2	Cargo Apro	Subbase Pl	Dozer	SetSelected

ACEIT Input - Default Asphalt Application Rates

2	Cargo Apro	Subbase Pl	Dump Truc	SetSelected
2	Cargo Apro	Subbase Pl	Pickup Truc	SetSelected
2	Cargo Apro	Subbase Pl	Roller	SetSelected
2	Cargo Apro	Topsoil Pla	Dozer	SetSelected
2	Cargo Apro	Topsoil Pla	Dump Truc	SetSelected
2	Cargo Apro	Topsoil Pla	Pickup Truc	SetSelected
2	Parking Lot	Asphalt Pla	Asphalt Pav	SetSelected
2	Parking Lot	Asphalt Pla	Dump Truc	SetSelected
2	Parking Lot	Asphalt Pla	Other Gene	SetSelected
2	Parking Lot	Asphalt Pla	Pickup Truc	SetSelected
2	Parking Lot	Asphalt Pla	Roller	SetSelected
2	Parking Lot	Asphalt Pla	Skid Steer I	SetSelected
2	Parking Lot	Asphalt Pla	Surfacing E	SetSelected
2	Parking Lot	Clearing an	Chain Saw	SetSelected
2	Parking Lot	Clearing an	Chipper/St	SetSelected
2	Parking Lot	Clearing an	Pickup Truc	SetSelected
2	Parking Lot	Curbing	Concrete T	SetSelected
2	Parking Lot	Curbing	Curb/Gutte	SetSelected
2	Parking Lot	Curbing	Other Gene	SetSelected
2	Parking Lot	Curbing	Pickup Truc	SetSelected
2	Parking Lot	Drainage -	Dozer	SetSelected
2	Parking Lot	Drainage -	Dump Truc	SetSelected
2	Parking Lot	Drainage -	Excavator	SetSelected
2	Parking Lot	Drainage -	Loader	SetSelected
2	Parking Lot	Drainage -	Other Gene	SetSelected
2	Parking Lot	Drainage -	Pickup Truc	SetSelected
2	Parking Lot	Drainage -	Roller	SetSelected
2	Parking Lot	Drainage -	Dump Truc	SetSelected
2	Parking Lot	Drainage -	Loader	SetSelected
2	Parking Lot	Drainage -	Other Gene	SetSelected
2	Parking Lot	Drainage -	Pickup Truc	SetSelected
2	Parking Lot	Drainage -	Tractors/Lo	SetSelected
2	Parking Lot	Excavation	Dozer	SetSelected
2	Parking Lot	Excavation	Dump Truc	SetSelected
2	Parking Lot	Excavation	Pickup Truc	SetSelected
2	Parking Lot	Excavation	Roller	SetSelected
2	Parking Lot	Excavation	Dozer	SetSelected
2	Parking Lot	Excavation	Dump Truc	SetSelected
2	Parking Lot	Excavation	Excavator	SetSelected
2	Parking Lot	Excavation	Pickup Truc	SetSelected
2	Parking Lot	Excavation	Roller	SetSelected
2	Parking Lot	Excavation	Scraper	SetSelected
2	Parking Lot	Excavation	Dozer	SetSelected
2	Parking Lot	Fencing	Concrete T	SetSelected
2	Parking Lot	Fencing	Dump Truc	SetSelected
2	Parking Lot	Fencing	Other Gene	SetSelected
2	Parking Lot	Fencing	Pickup Truc	SetSelected
2	Parking Lot	Fencing	Skid Steer I	SetSelected
2	Parking Lot	Fencing	Tractors/Lo	SetSelected
2	Parking Lot	Grading	Dozer	SetSelected
2	Parking Lot	Grading	Grader	SetSelected
2	Parking Lot	Grading	Roller	SetSelected
2	Parking Lot	Hydroseed	Hydroseed	SetSelected
2	Parking Lot	Hydroseed	Off-Road T	SetSelected
2	Parking Lot	Markings	Flatbed Tru	SetSelected
2	Parking Lot	Markings	Other Gene	SetSelected
2	Parking Lot	Markings	Pickup Truc	SetSelected
2	Parking Lot	Sidewalks	Concrete T	SetSelected
2	Parking Lot	Sidewalks	Dump Truc	SetSelected
2	Parking Lot	Sidewalks	Pickup Truc	SetSelected
2	Parking Lot	Sidewalks	Tractors/Lo	SetSelected
2	Parking Lot	Sidewalks	Vibratory C	SetSelected
2	Parking Lot	Soil Erosion	Other Gene	SetSelected
2	Parking Lot	Soil Erosion	Pickup Truc	SetSelected
2	Parking Lot	Soil Erosion	Pumps	SetSelected
2	Parking Lot	Soil Erosion	Tractors/Lo	SetSelected
2	Parking Lot	Street Ligh	Dump Truc	SetSelected
2	Parking Lot	Street Ligh	Loader	SetSelected
2	Parking Lot	Street Ligh	Other Gene	SetSelected
2	Parking Lot	Street Ligh	Pickup Truc	SetSelected
2	Parking Lot	Street Ligh	Skid Steer I	SetSelected
2	Parking Lot	Street Ligh	Tractors/Lo	SetSelected
2	Parking Lot	Subbase Pl	Dozer	SetSelected
2	Parking Lot	Subbase Pl	Dump Truc	SetSelected
2	Parking Lot	Subbase Pl	Pickup Truc	SetSelected
2	Parking Lot	Subbase Pl	Roller	SetSelected
2	Parking Lot	Topsoil Pla	Dozer	SetSelected
2	Parking Lot	Topsoil Pla	Dump Truc	SetSelected
2	Parking Lot	Topsoil Pla	Pickup Truc	SetSelected
2	Parking Lot	Tree Planti	Flatbed Tru	SetSelected
2	Parking Lot	Tree Planti	Other Gene	SetSelected
2	Parking Lot	Tree Planti	Pickup Truc	SetSelected
2	Parking Lot	Tree Planti	Tractors/Lo	SetSelected
3	Building - 1	Concrete F	Backhoe	SetSelected
3	Building - 1	Concrete F	Concrete P	SetSelected
3	Building - 1	Concrete F	Concrete R	SetSelected
3	Building - 1	Concrete F	Excavator	SetSelected
3	Building - 1	Concrete F	Fork Truck	SetSelected
3	Building - 1	Concrete F	Tool Truck	SetSelected
3	Building - 1	Concrete F	Tractor Tra	SetSelected
3	Building - 1	Constructio	Survey Cre	SetSelected
3	Building - 1	Constructio	Tractor Tra	SetSelected
3	Building - 1	Exterior W	Fork Truck	SetSelected
3	Building - 1	Exterior W	Generator	SetSelected
3	Building - 1	Exterior W	Grout Mixe	SetSelected
3	Building - 1	Exterior W	Grout Whe	SetSelected
3	Building - 1	Exterior W	Man Lift	SetSelected
3	Building - 1	Exterior W	Tool Truck	SetSelected
3	Building - 1	Exterior W	Tractor Tra	SetSelected
3	Building - 1	Exterior W	Truck Towe	SetSelected
3	Building - 1	Interior Bu	Fork Truck	SetSelected
3	Building - 1	Interior Bu	Man Lift	SetSelected
3	Building - 1	Interior Bu	Tool Truck	SetSelected
3	Building - 1	Interior Bu	Tractor Tra	SetSelected
3	Building - 1	Roofing	High Lift	SetSelected
3	Building - 1	Roofing	Man Lift	SetSelected
3	Building - 1	Roofing	Material De	SetSelected
3	Building - 1	Roofing	Tractor Tra	SetSelected
3	Building - 1	Roofing	Truck Towe	SetSelected
3	Building - 1	Security &	High Lift	SetSelected
3	Building - 1	Security &	Tool Truck	SetSelected
3	Building - 1	Structural S	90 Ton Cra	SetSelected
3	Building - 1	Structural S	Concrete P	SetSelected
3	Building - 1	Structural S	Concrete T	SetSelected
3	Building - 1	Structural S	Fork Truck	SetSelected
3	Building - 1	Structural S	Tool Truck	SetSelected
3	Building - 1	Structural S	Tractor Tra	SetSelected
3	Building - 1	Structural S	Trowel Ma	SetSelected
3	Building - 1	Structural S	Truck Towe	SetSelected
3	Cargo Apro	Clearing an	Chain Saw	SetSelected
3	Cargo Apro	Clearing an	Chipper/St	SetSelected
3	Cargo Apro	Clearing an	Pickup Truc	SetSelected
3	Cargo Apro	Concrete P	Air Compre	SetSelected
3	Cargo Apro	Concrete P	Concrete S	SetSelected
3	Cargo Apro	Concrete P	Concrete T	SetSelected
3	Cargo Apro	Concrete P	Other Gene	SetSelected
3	Cargo Apro	Concrete P	Pickup Truc	SetSelected
3	Cargo Apro	Concrete P	Rubber Tire	SetSelected
3	Cargo Apro	Concrete P	Slip Form P	SetSelected
3	Cargo Apro	Concrete P	Surfacing E	SetSelected
3	Cargo Apro	Drainage -	Dozer	SetSelected
3	Cargo Apro	Drainage -	Dump Truc	SetSelected
3	Cargo Apro	Drainage -	Excavator	SetSelected
3	Cargo Apro	Drainage -	Loader	SetSelected
3	Cargo Apro	Drainage -	Other Gene	SetSelected
3	Cargo Apro	Drainage -	Pickup Truc	SetSelected
3	Cargo Apro	Drainage -	Roller	SetSelected
3	Cargo Apro	Drainage -	Dump Truc	SetSelected
3	Cargo Apro	Drainage -	Loader	SetSelected
3	Cargo Apro	Drainage -	Other Gene	SetSelected
3	Cargo Apro	Drainage -	Pickup Truc	SetSelected
3	Cargo Apro	Drainage -	Tractors/Lo	SetSelected
3	Cargo Apro	Dust Contr	Water Truc	SetSelected
3	Cargo Apro	Excavation	Dozer	SetSelected
3	Cargo Apro	Excavation	Dump Truc	SetSelected
3	Cargo Apro	Excavation	Pickup Truc	SetSelected
3	Cargo Apro	Excavation	Roller	SetSelected
3	Cargo Apro	Excavation	Dozer	SetSelected
3	Cargo Apro	Excavation	Dump Truc	SetSelected
3	Cargo Apro	Excavation	Excavator	SetSelected
3	Cargo Apro	Excavation	Pickup Truc	SetSelected
3	Cargo Apro	Excavation	Roller	SetSelected
3	Cargo Apro	Excavation	Scraper	SetSelected
3	Cargo Apro	Excavation	Dozer	SetSelected
3	Cargo Apro	Fencing	Concrete T	SetSelected
3	Cargo Apro	Fencing	Dump Truc	SetSelected
3	Cargo Apro	Fencing	Other Gene	SetSelected
3	Cargo Apro	Fencing	Pickup Truc	SetSelected
3	Cargo Apro	Fencing	Skid Steer I	SetSelected
3	Cargo Apro	Fencing	Tractors/Lo	SetSelected
3	Cargo Apro	Grading	Dozer	SetSelected
3	Cargo Apro	Grading	Grader	SetSelected
3	Cargo Apro	Grading	Roller	SetSelected
3	Cargo Apro	Hydroseed	Hydroseed	SetSelected
3	Cargo Apro	Hydroseed	Off-Road T	SetSelected
3	Cargo Apro	Lighting	Dump Truc	SetSelected
3	Cargo Apro	Lighting	Loader	SetSelected
3	Cargo Apro	Lighting	Other Gene	SetSelected
3	Cargo Apro	Lighting	Pickup Truc	SetSelected
3	Cargo Apro	Lighting	Skid Steer I	SetSelected
3	Cargo Apro	Lighting	Tractors/Lo	SetSelected
3	Cargo Apro	Markings	Flatbed Tru	SetSelected

ACEIT Input - Default Asphalt Application Rates

3	Cargo Apro	Markings	Other Gen	Set	Selected
3	Cargo Apro	Markings	Pickup Truc	Set	Selected
3	Cargo Apro	Sealing/Fu	Distributing	Set	Selected
3	Cargo Apro	Sealing/Fu	Other Gen	Set	Selected
3	Cargo Apro	Sealing/Fu	Pickup Truc	Set	Selected
3	Cargo Apro	Soil Erosior	Other Gen	Set	Selected
3	Cargo Apro	Soil Erosior	Pickup Truc	Set	Selected
3	Cargo Apro	Soil Erosior	Pumps	Set	Selected
3	Cargo Apro	Soil Erosior	Tractors/Lc	Set	Selected
3	Cargo Apro	Subbase Pl	Dozer	Set	Selected
3	Cargo Apro	Subbase Pl	Dump Truc	Set	Selected
3	Cargo Apro	Subbase Pl	Pickup Truc	Set	Selected
3	Cargo Apro	Subbase Pl	Roller	Set	Selected
3	Cargo Apro	Topsoil Pla	Dozer	Set	Selected
3	Cargo Apro	Topsoil Pla	Dump Truc	Set	Selected
3	Cargo Apro	Topsoil Pla	Pickup Truc	Set	Selected
3	Drainage S	Drainage -	Dozer	Set	Selected
3	Drainage S	Drainage -	Dump Truc	Set	Selected
3	Drainage S	Drainage -	Excavator	Set	Selected
3	Drainage S	Drainage -	Loader	Set	Selected
3	Drainage S	Drainage -	Other Gen	Set	Selected
3	Drainage S	Drainage -	Pickup Truc	Set	Selected
3	Drainage S	Drainage -	Roller	Set	Selected
3	Drainage S	Drainage -	Dozer	Set	Selected
3	Drainage S	Drainage -	Dump Truc	Set	Selected
3	Drainage S	Drainage -	Excavator	Set	Selected
3	Drainage S	Drainage -	Loader	Set	Selected
3	Drainage S	Drainage -	Other Gen	Set	Selected
3	Drainage S	Drainage -	Pickup Truc	Set	Selected
3	Drainage S	Drainage -	Roller	Set	Selected
3	Drainage S	Drainage S	Dump Truc	Set	Selected
3	Drainage S	Drainage S	Excavator	Set	Selected
3	Drainage S	Drainage S	Other Gen	Set	Selected
3	Drainage S	Drainage S	Pickup Truc	Set	Selected
3	Drainage S	Hydroseed	Hydroseed	Set	Selected
3	Drainage S	Hydroseed	Off-Road T	Set	Selected
3	Drainage S	Soil Erosior	Other Gen	Set	Selected
3	Drainage S	Soil Erosior	Pickup Truc	Set	Selected
3	Drainage S	Soil Erosior	Pumps	Set	Selected
3	Drainage S	Soil Erosior	Tractors/Lc	Set	Selected
3	Drainage S	Topsoil Pla	Dozer	Set	Selected
3	Drainage S	Topsoil Pla	Dump Truc	Set	Selected
3	Drainage S	Topsoil Pla	Pickup Truc	Set	Selected
3	Fuel Tanks	Clearing an	Chain Saw	Set	Selected
3	Fuel Tanks	Clearing an	Chipper/St	Set	Selected
3	Fuel Tanks	Clearing an	Pickup Truc	Set	Selected
3	Fuel Tanks	Concrete P	Air Compre	Set	Selected
3	Fuel Tanks	Concrete P	Concrete S	Set	Selected
3	Fuel Tanks	Concrete P	Concrete T	Set	Selected
3	Fuel Tanks	Concrete P	Other Gen	Set	Selected
3	Fuel Tanks	Concrete P	Pickup Truc	Set	Selected
3	Fuel Tanks	Concrete P	Rubber Tir	Set	Selected
3	Fuel Tanks	Concrete P	Slip Form P	Set	Selected
3	Fuel Tanks	Concrete P	Surfacing E	Set	Selected
3	Fuel Tanks	Constructic	Crane	Set	Selected
3	Fuel Tanks	Constructic	Other Gen	Set	Selected
3	Fuel Tanks	Constructic	Pickup Truc	Set	Selected
3	Fuel Tanks	Drainage -	Excavator	Set	Selected
3	Fuel Tanks	Drainage	Dozer	Set	Selected
3	Fuel Tanks	Drainage	Dump Truc	Set	Selected
3	Fuel Tanks	Drainage	Loader	Set	Selected
3	Fuel Tanks	Drainage	Other Gen	Set	Selected
3	Fuel Tanks	Drainage	Pickup Truc	Set	Selected
3	Fuel Tanks	Drainage	Roller	Set	Selected
3	Fuel Tanks	Dust Contr	Water Truc	Set	Selected
3	Fuel Tanks	Excavation	Dozer	Set	Selected
3	Fuel Tanks	Excavation	Dump Truc	Set	Selected
3	Fuel Tanks	Excavation	Pickup Truc	Set	Selected
3	Fuel Tanks	Excavation	Roller	Set	Selected
3	Fuel Tanks	Excavation	Dozer	Set	Selected
3	Fuel Tanks	Excavation	Dump Truc	Set	Selected
3	Fuel Tanks	Excavation	Excavator	Set	Selected
3	Fuel Tanks	Excavation	Pickup Truc	Set	Selected
3	Fuel Tanks	Excavation	Roller	Set	Selected
3	Fuel Tanks	Excavation	Scraper	Set	Selected
3	Fuel Tanks	Excavation	Dozer	Set	Selected
3	Fuel Tanks	Fencing	Concrete T	Set	Selected
3	Fuel Tanks	Fencing	Dump Truc	Set	Selected
3	Fuel Tanks	Fencing	Other Gen	Set	Selected
3	Fuel Tanks	Fencing	Pickup Truc	Set	Selected
3	Fuel Tanks	Fencing	Skid Steer I	Set	Selected
3	Fuel Tanks	Fencing	Tractors/Lc	Set	Selected
3	Fuel Tanks	Grading	Dozer	Set	Selected
3	Fuel Tanks	Grading	Grader	Set	Selected
3	Fuel Tanks	Grading	Roller	Set	Selected
3	Fuel Tanks	Hydroseed	Hydroseed	Set	Selected
3	Fuel Tanks	Hydroseed	Off-Road T	Set	Selected
3	Fuel Tanks	Markings	Flatbed Tru	Set	Selected
3	Fuel Tanks	Markings	Other Gen	Set	Selected
3	Fuel Tanks	Markings	Pickup Truc	Set	Selected
3	Fuel Tanks	Soil Erosior	Other Gen	Set	Selected
3	Fuel Tanks	Soil Erosior	Pickup Truc	Set	Selected
3	Fuel Tanks	Soil Erosior	Pumps	Set	Selected
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Set	Selected
3	Fuel Tanks	Street Ligh	Dump Truc	Set	Selected
3	Fuel Tanks	Street Ligh	Loader	Set	Selected
3	Fuel Tanks	Street Ligh	Other Gen	Set	Selected
3	Fuel Tanks	Street Ligh	Pickup Truc	Set	Selected
3	Fuel Tanks	Street Ligh	Skid Steer I	Set	Selected
3	Fuel Tanks	Street Ligh	Tractors/Lc	Set	Selected
3	Fuel Tanks	Subbase Pl	Dozer	Set	Selected
3	Fuel Tanks	Subbase Pl	Dump Truc	Set	Selected
3	Fuel Tanks	Subbase Pl	Pickup Truc	Set	Selected
3	Fuel Tanks	Subbase Pl	Roller	Set	Selected
3	Fuel Tanks	Topsoil Pla	Dozer	Set	Selected
3	Fuel Tanks	Topsoil Pla	Dump Truc	Set	Selected
3	Fuel Tanks	Topsoil Pla	Pickup Truc	Set	Selected
3	Parking Lot	Asphalt Pla	Asphalt Pa	Set	Selected
3	Parking Lot	Asphalt Pla	Dump Truc	Set	Selected
3	Parking Lot	Asphalt Pla	Other Gen	Set	Selected
3	Parking Lot	Asphalt Pla	Pickup Truc	Set	Selected
3	Parking Lot	Asphalt Pla	Roller	Set	Selected
3	Parking Lot	Asphalt Pla	Skid Steer I	Set	Selected
3	Parking Lot	Asphalt Pla	Surfacing E	Set	Selected
3	Parking Lot	Clearing an	Chain Saw	Set	Selected
3	Parking Lot	Clearing an	Chipper/St	Set	Selected
3	Parking Lot	Clearing an	Pickup Truc	Set	Selected
3	Parking Lot	Curbing	Concrete T	Set	Selected
3	Parking Lot	Curbing	Curb/Gutte	Set	Selected
3	Parking Lot	Curbing	Other Gen	Set	Selected
3	Parking Lot	Curbing	Pickup Truc	Set	Selected
3	Parking Lot	Drainage -	Dozer	Set	Selected
3	Parking Lot	Drainage -	Dump Truc	Set	Selected
3	Parking Lot	Drainage -	Excavator	Set	Selected
3	Parking Lot	Drainage -	Loader	Set	Selected
3	Parking Lot	Drainage -	Other Gen	Set	Selected
3	Parking Lot	Drainage -	Pickup Truc	Set	Selected
3	Parking Lot	Drainage -	Roller	Set	Selected
3	Parking Lot	Drainage -	Dump Truc	Set	Selected
3	Parking Lot	Drainage -	Loader	Set	Selected
3	Parking Lot	Drainage -	Other Gen	Set	Selected
3	Parking Lot	Drainage -	Pickup Truc	Set	Selected
3	Parking Lot	Drainage -	Tractors/Lc	Set	Selected
3	Parking Lot	Excavation	Dozer	Set	Selected
3	Parking Lot	Excavation	Dump Truc	Set	Selected
3	Parking Lot	Excavation	Pickup Truc	Set	Selected
3	Parking Lot	Excavation	Roller	Set	Selected
3	Parking Lot	Excavation	Dozer	Set	Selected
3	Parking Lot	Excavation	Dump Truc	Set	Selected
3	Parking Lot	Excavation	Excavator	Set	Selected
3	Parking Lot	Excavation	Pickup Truc	Set	Selected
3	Parking Lot	Excavation	Roller	Set	Selected
3	Parking Lot	Excavation	Scraper	Set	Selected
3	Parking Lot	Excavation	Dozer	Set	Selected
3	Parking Lot	Fencing	Concrete T	Set	Selected
3	Parking Lot	Fencing	Dump Truc	Set	Selected
3	Parking Lot	Fencing	Other Gen	Set	Selected
3	Parking Lot	Fencing	Pickup Truc	Set	Selected
3	Parking Lot	Fencing	Skid Steer I	Set	Selected
3	Parking Lot	Fencing	Tractors/Lc	Set	Selected
3	Parking Lot	Grading	Dozer	Set	Selected
3	Parking Lot	Grading	Grader	Set	Selected
3	Parking Lot	Grading	Roller	Set	Selected
3	Parking Lot	Hydroseed	Hydroseed	Set	Selected
3	Parking Lot	Hydroseed	Off-Road T	Set	Selected
3	Parking Lot	Markings	Flatbed Tru	Set	Selected
3	Parking Lot	Markings	Other Gen	Set	Selected
3	Parking Lot	Markings	Pickup Truc	Set	Selected
3	Parking Lot	Sidewalks	Concrete T	Set	Selected
3	Parking Lot	Sidewalks	Dump Truc	Set	Selected
3	Parking Lot	Sidewalks	Pickup Truc	Set	Selected
3	Parking Lot	Sidewalks	Tractors/Lc	Set	Selected
3	Parking Lot	Sidewalks	Vibratory C	Set	Selected
3	Parking Lot	Soil Erosior	Other Gen	Set	Selected
3	Parking Lot	Soil Erosior	Pickup Truc	Set	Selected
3	Parking Lot	Soil Erosior	Pumps	Set	Selected
3	Parking Lot	Soil Erosior	Tractors/Lc	Set	Selected
3	Parking Lot	Street Ligh	Dump Truc	Set	Selected
3	Parking Lot	Street Ligh	Loader	Set	Selected
3	Parking Lot	Street Ligh	Other Gen	Set	Selected
3	Parking Lot	Street Ligh	Pickup Truc	Set	Selected
3	Parking Lot	Street Ligh	Skid Steer I	Set	Selected

ACEIT Input - Default Asphalt Application Rates

3	Parking Lot	Street Ligh	Tractors/Lc	SetSelected
3	Parking Lot	Subbase Pl	Dozer	SetSelected
3	Parking Lot	Subbase Pl	Dump Truc	SetSelected
3	Parking Lot	Subbase Pl	Pickup Truc	SetSelected
3	Parking Lot	Subbase Pl	Roller	SetSelected
3	Parking Lot	Topsoil Pla	Dozer	SetSelected
3	Parking Lot	Topsoil Pla	Dump Truc	SetSelected
3	Parking Lot	Topsoil Pla	Pickup Truc	SetSelected
3	Parking Lot	Tree Planti	Flatbed Tru	SetSelected
3	Parking Lot	Tree Planti	Other Gene	SetSelected
3	Parking Lot	Tree Planti	Pickup Truc	SetSelected
3	Parking Lot	Tree Planti	Tractors/Lc	SetSelected
3	Taxiways	Asphalt Pla	Asphalt Pa	SetSelected
3	Taxiways	Asphalt Pla	Dump Truc	SetSelected
3	Taxiways	Asphalt Pla	Other Gene	SetSelected
3	Taxiways	Asphalt Pla	Pickup Truc	SetSelected
3	Taxiways	Asphalt Pla	Roller	SetSelected
3	Taxiways	Asphalt Pla	Skid Steer l	SetSelected
3	Taxiways	Asphalt Pla	Surfacing E	SetSelected
3	Taxiways	Clearing an	Chain Saw	SetSelected
3	Taxiways	Clearing an	Chipper/St	SetSelected
3	Taxiways	Clearing an	Pickup Truc	SetSelected
3	Taxiways	Drainage -	Dozer	SetSelected
3	Taxiways	Drainage -	Dump Truc	SetSelected
3	Taxiways	Drainage -	Excavator	SetSelected
3	Taxiways	Drainage -	Loader	SetSelected
3	Taxiways	Drainage -	Other Gene	SetSelected
3	Taxiways	Drainage -	Pickup Truc	SetSelected
3	Taxiways	Drainage -	Roller	SetSelected
3	Taxiways	Drainage -	Dump Truc	SetSelected
3	Taxiways	Drainage -	Loader	SetSelected
3	Taxiways	Drainage -	Other Gene	SetSelected
3	Taxiways	Drainage -	Pickup Truc	SetSelected
3	Taxiways	Drainage -	Tractors/Lc	SetSelected
3	Taxiways	Dust Contr	Water Truc	SetSelected
3	Taxiways	Excavation	Dozer	SetSelected
3	Taxiways	Excavation	Dump Truc	SetSelected
3	Taxiways	Excavation	Pickup Truc	SetSelected
3	Taxiways	Excavation	Roller	SetSelected
3	Taxiways	Excavation	Dozer	SetSelected
3	Taxiways	Excavation	Dump Truc	SetSelected
3	Taxiways	Excavation	Excavator	SetSelected
3	Taxiways	Excavation	Pickup Truc	SetSelected
3	Taxiways	Excavation	Roller	SetSelected
3	Taxiways	Excavation	Scraper	SetSelected
3	Taxiways	Excavation	Dozer	SetSelected
3	Taxiways	Fencing	Concrete T	SetSelected
3	Taxiways	Fencing	Dump Truc	SetSelected
3	Taxiways	Fencing	Other Gene	SetSelected
3	Taxiways	Fencing	Pickup Truc	SetSelected
3	Taxiways	Fencing	Skid Steer l	SetSelected
3	Taxiways	Fencing	Tractors/Lc	SetSelected
3	Taxiways	Grading	Dozer	SetSelected
3	Taxiways	Grading	Grader	SetSelected
3	Taxiways	Grading	Roller	SetSelected
3	Taxiways	Hydroseed	Hydroseed	SetSelected
3	Taxiways	Hydroseed	Off-Road T	SetSelected
3	Taxiways	Lighting	Dump Truc	SetSelected
3	Taxiways	Lighting	Loader	SetSelected
3	Taxiways	Lighting	Other Gene	SetSelected
3	Taxiways	Lighting	Pickup Truc	SetSelected
3	Taxiways	Lighting	Skid Steer l	SetSelected
3	Taxiways	Lighting	Tractors/Lc	SetSelected
3	Taxiways	Markings	Flatbed Tru	SetSelected
3	Taxiways	Markings	Other Gene	SetSelected
3	Taxiways	Markings	Pickup Truc	SetSelected
3	Taxiways	Soil Erosior	Other Gene	SetSelected
3	Taxiways	Soil Erosior	Pickup Truc	SetSelected
3	Taxiways	Soil Erosior	Pumps	SetSelected
3	Taxiways	Soil Erosior	Tractors/Lc	SetSelected
3	Taxiways	Subbase Pl	Dozer	SetSelected
3	Taxiways	Subbase Pl	Dump Truc	SetSelected
3	Taxiways	Subbase Pl	Pickup Truc	SetSelected
3	Taxiways	Subbase Pl	Roller	SetSelected
3	Taxiways	Topsoil Pla	Dozer	SetSelected
3	Taxiways	Topsoil Pla	Dump Truc	SetSelected
3	Taxiways	Topsoil Pla	Pickup Truc	SetSelected

Final Selections

1	Cargo Aprc	Clearing an	Chain Saw	Diesel
1	Cargo Aprc	Clearing an	Chipper/St	Diesel
1	Cargo Aprc	Clearing an	Pickup Truc	Diesel
1	Cargo Aprc	Concrete P	Air Compre	Diesel
1	Cargo Aprc	Concrete P	Concrete S	Diesel
1	Cargo Aprc	Concrete P	Concrete T	Diesel
1	Cargo Aprc	Concrete P	Other Gene	Diesel
1	Cargo Aprc	Concrete P	Pickup Truc	Diesel
1	Cargo Aprc	Concrete P	Rubber Tire	Diesel
1	Cargo Aprc	Concrete P	Slip Form P	Diesel
1	Cargo Aprc	Concrete P	Surfacing E	Diesel
1	Cargo Aprc	Drainage -	Dozer	Diesel
1	Cargo Aprc	Drainage -	Dump Truc	Diesel
1	Cargo Aprc	Drainage -	Excavator	Diesel
1	Cargo Aprc	Drainage -	Loader	Diesel
1	Cargo Aprc	Drainage -	Other Gene	Diesel
1	Cargo Aprc	Drainage -	Pickup Truc	Diesel
1	Cargo Aprc	Drainage -	Roller	Diesel
1	Cargo Aprc	Drainage -	Dump Truc	Diesel
1	Cargo Aprc	Drainage -	Loader	Diesel
1	Cargo Aprc	Drainage -	Other Gene	Diesel
1	Cargo Aprc	Drainage -	Pickup Truc	Diesel
1	Cargo Aprc	Drainage -	Tractors/Lc	Diesel
1	Cargo Aprc	Dust Contr	Water Truc	Diesel
1	Cargo Aprc	Excavation	Dozer	Diesel
1	Cargo Aprc	Excavation	Dump Truc	Diesel
1	Cargo Aprc	Excavation	Pickup Truc	Diesel
1	Cargo Aprc	Excavation	Roller	Diesel
1	Cargo Aprc	Excavation	Dozer	Diesel
1	Cargo Aprc	Excavation	Dump Truc	Diesel
1	Cargo Aprc	Excavation	Excavator	Diesel
1	Cargo Aprc	Excavation	Pickup Truc	Diesel
1	Cargo Aprc	Excavation	Roller	Diesel
1	Cargo Aprc	Excavation	Scraper	Diesel
1	Cargo Aprc	Excavation	Dozer	Diesel
1	Cargo Aprc	Fencing	Concrete T	Diesel
1	Cargo Aprc	Fencing	Dump Truc	Diesel
1	Cargo Aprc	Fencing	Other Gene	Diesel
1	Cargo Aprc	Fencing	Pickup Truc	Diesel
1	Cargo Aprc	Fencing	Skid Steer l	Diesel
1	Cargo Aprc	Fencing	Tractors/Lc	Diesel
1	Cargo Aprc	Grading	Dozer	Diesel
1	Cargo Aprc	Grading	Grader	Diesel
1	Cargo Aprc	Grading	Roller	Diesel
1	Cargo Aprc	Hydroseed	Hydroseed	Diesel
1	Cargo Aprc	Hydroseed	Off-Road T	Diesel
1	Cargo Aprc	Lighting	Dump Truc	Diesel
1	Cargo Aprc	Lighting	Loader	Diesel
1	Cargo Aprc	Lighting	Other Gene	Diesel
1	Cargo Aprc	Lighting	Pickup Truc	Diesel
1	Cargo Aprc	Lighting	Skid Steer l	Diesel
1	Cargo Aprc	Lighting	Tractors/Lc	Diesel
1	Cargo Aprc	Markings	Flatbed Tru	Diesel
1	Cargo Aprc	Markings	Other Gene	Diesel
1	Cargo Aprc	Markings	Pickup Truc	Diesel
1	Cargo Aprc	Sealing/Fu	Distributing	Diesel
1	Cargo Aprc	Sealing/Fu	Other Gene	Diesel
1	Cargo Aprc	Sealing/Fu	Pickup Truc	Diesel
1	Cargo Aprc	Soil Erosior	Other Gene	Diesel
1	Cargo Aprc	Soil Erosior	Pickup Truc	Diesel
1	Cargo Aprc	Soil Erosior	Pumps	Diesel
1	Cargo Aprc	Soil Erosior	Tractors/Lc	Diesel
1	Cargo Aprc	Subbase Pl	Dozer	Diesel
1	Cargo Aprc	Subbase Pl	Dump Truc	Diesel
1	Cargo Aprc	Subbase Pl	Pickup Truc	Diesel
1	Cargo Aprc	Subbase Pl	Roller	Diesel
1	Cargo Aprc	Topsoil Pla	Dozer	Diesel
1	Cargo Aprc	Topsoil Pla	Dump Truc	Diesel
1	Cargo Aprc	Topsoil Pla	Pickup Truc	Diesel
1	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel
1	Parking Lot	Asphalt Pla	Dump Truc	Diesel
1	Parking Lot	Asphalt Pla	Other Gene	Diesel
1	Parking Lot	Asphalt Pla	Pickup Truc	Diesel
1	Parking Lot	Asphalt Pla	Roller	Diesel
1	Parking Lot	Asphalt Pla	Skid Steer l	Diesel
1	Parking Lot	Asphalt Pla	Surfacing E	Diesel
1	Parking Lot	Clearing an	Chain Saw	Diesel
1	Parking Lot	Clearing an	Chipper/St	Diesel
1	Parking Lot	Clearing an	Pickup Truc	Diesel
1	Parking Lot	Curbing	Concrete T	Diesel
1	Parking Lot	Curbing	Curb/Gutte	Diesel
1	Parking Lot	Curbing	Other Gene	Diesel
1	Parking Lot	Curbing	Pickup Truc	Diesel
1	Parking Lot	Drainage -	Dozer	Diesel
1	Parking Lot	Drainage -	Dump Truc	Diesel
1	Parking Lot	Drainage -	Excavator	Diesel
1	Parking Lot	Drainage -	Loader	Diesel
1	Parking Lot	Drainage -	Other Gene	Diesel
1	Parking Lot	Drainage -	Pickup Truc	Diesel
1	Parking Lot	Drainage -	Roller	Diesel
1	Parking Lot	Drainage -	Dump Truc	Diesel
1	Parking Lot	Drainage -	Loader	Diesel
1	Parking Lot	Drainage -	Other Gene	Diesel

ACEIT Input - Default Asphalt Application Rates

1	Parking Lot	Drainage -	Pickup Truc	Diesel
1	Parking Lot	Drainage -	Tractors/Lc	Diesel
1	Parking Lot	Excavation	Dozer	Diesel
1	Parking Lot	Excavation	Dump Truc	Diesel
1	Parking Lot	Excavation	Pickup Truc	Diesel
1	Parking Lot	Excavation	Roller	Diesel
1	Parking Lot	Excavation	Dozer	Diesel
1	Parking Lot	Excavation	Dump Truc	Diesel
1	Parking Lot	Excavation	Excavator	Diesel
1	Parking Lot	Excavation	Pickup Truc	Diesel
1	Parking Lot	Excavation	Roller	Diesel
1	Parking Lot	Excavation	Scraper	Diesel
1	Parking Lot	Excavation	Dozer	Diesel
1	Parking Lot	Fencing	Concrete T	Diesel
1	Parking Lot	Fencing	Dump Truc	Diesel
1	Parking Lot	Fencing	Other Gen	Diesel
1	Parking Lot	Fencing	Pickup Truc	Diesel
1	Parking Lot	Fencing	Skid Steer l	Diesel
1	Parking Lot	Fencing	Tractors/Lc	Diesel
1	Parking Lot	Grading	Dozer	Diesel
1	Parking Lot	Grading	Grader	Diesel
1	Parking Lot	Grading	Roller	Diesel
1	Parking Lot	Hydroseed	Hydroseed	Diesel
1	Parking Lot	Hydroseed	Off-Road T	Diesel
1	Parking Lot	Markings	Flatbed Tru	Diesel
1	Parking Lot	Markings	Other Gen	Diesel
1	Parking Lot	Markings	Pickup Truc	Diesel
1	Parking Lot	Sidewalks	Concrete T	Diesel
1	Parking Lot	Sidewalks	Dump Truc	Diesel
1	Parking Lot	Sidewalks	Pickup Truc	Diesel
1	Parking Lot	Sidewalks	Tractors/Lc	Diesel
1	Parking Lot	Sidewalks	Vibratory C	Diesel
1	Parking Lot	Soil Erosior	Other Gen	Diesel
1	Parking Lot	Soil Erosior	Pickup Truc	Diesel
1	Parking Lot	Soil Erosior	Pumps	Diesel
1	Parking Lot	Soil Erosior	Tractors/Lc	Diesel
1	Parking Lot	Street Ligh	Dump Truc	Diesel
1	Parking Lot	Street Ligh	Loader	Diesel
1	Parking Lot	Street Ligh	Other Gen	Diesel
1	Parking Lot	Street Ligh	Pickup Truc	Diesel
1	Parking Lot	Street Ligh	Skid Steer l	Diesel
1	Parking Lot	Street Ligh	Tractors/Lc	Diesel
1	Parking Lot	Subbase Pl	Dozer	Diesel
1	Parking Lot	Subbase Pl	Dump Truc	Diesel
1	Parking Lot	Subbase Pl	Pickup Truc	Diesel
1	Parking Lot	Subbase Pl	Roller	Diesel
1	Parking Lot	Topsoil Pla	Dozer	Diesel
1	Parking Lot	Topsoil Pla	Dump Truc	Diesel
1	Parking Lot	Topsoil Pla	Pickup Truc	Diesel
1	Parking Lot	Tree Planti	Flatbed Tru	Diesel
1	Parking Lot	Tree Planti	Other Gen	Diesel
1	Parking Lot	Tree Planti	Pickup Truc	Diesel
1	Parking Lot	Tree Planti	Tractors/Lc	Diesel
1	Rehabilitat	Asphalt Pla	Asphalt Pa	Diesel
1	Rehabilitat	Asphalt Pla	Dump Truc	Diesel
1	Rehabilitat	Asphalt Pla	Other Gen	Diesel
1	Rehabilitat	Asphalt Pla	Pickup Truc	Diesel
1	Rehabilitat	Asphalt Pla	Roller	Diesel
1	Rehabilitat	Asphalt Pla	Skid Steer l	Diesel
1	Rehabilitat	Asphalt Pla	Surfacing E	Diesel
1	Rehabilitat	Cold Millin	Cold Plane	Diesel
1	Rehabilitat	Cold Millin	Dump Truc	Diesel
1	Rehabilitat	Cold Millin	Pickup Truc	Diesel
1	Rehabilitat	Cold Millin	Sweepers	Diesel
1	Rehabilitat	Cold Millin	Water Truc	Diesel
1	Rehabilitat	Dust Contr	Water Truc	Diesel
1	Rehabilitat	Excavation	Dozer	Diesel
1	Rehabilitat	Excavation	Dump Truc	Diesel
1	Rehabilitat	Excavation	Excavator	Diesel
1	Rehabilitat	Excavation	Pickup Truc	Diesel
1	Rehabilitat	Excavation	Roller	Diesel
1	Rehabilitat	Excavation	Dozer	Diesel
1	Rehabilitat	Grading	Dozer	Diesel
1	Rehabilitat	Grading	Grader	Diesel
1	Rehabilitat	Grading	Roller	Diesel
1	Rehabilitat	Hydroseed	Hydroseed	Diesel
1	Rehabilitat	Hydroseed	Off-Road T	Diesel
1	Rehabilitat	Lighting	Dump Truc	Diesel
1	Rehabilitat	Lighting	Loader	Diesel
1	Rehabilitat	Lighting	Other Gen	Diesel
1	Rehabilitat	Lighting	Pickup Truc	Diesel
1	Rehabilitat	Lighting	Skid Steer l	Diesel
1	Rehabilitat	Lighting	Tractors/Lc	Diesel
1	Rehabilitat	Markings	Flatbed Tru	Diesel
1	Rehabilitat	Markings	Other Gen	Diesel
1	Rehabilitat	Markings	Pickup Truc	Diesel
1	Rehabilitat	Sealing Rar	Crack Clear	Diesel
1	Rehabilitat	Sealing Rar	Crack Filler	Diesel
1	Rehabilitat	Sealing Rar	Flatbed Tru	Diesel
1	Rehabilitat	Sealing Rar	Other Gen	Diesel
1	Rehabilitat	Sealing Rar	Pickup Truc	Diesel
1	Rehabilitat	Soil Erosior	Other Gen	Diesel
1	Rehabilitat	Soil Erosior	Pickup Truc	Diesel
1	Rehabilitat	Soil Erosior	Pumps	Diesel
1	Rehabilitat	Soil Erosior	Tractors/Lc	Diesel
1	Rehabilitat	Subbase Pl	Dozer	Diesel
1	Rehabilitat	Subbase Pl	Dump Truc	Diesel
1	Rehabilitat	Subbase Pl	Pickup Truc	Diesel
1	Rehabilitat	Subbase Pl	Roller	Diesel
1	Rehabilitat	Topsoil Pla	Dozer	Diesel
1	Rehabilitat	Topsoil Pla	Dump Truc	Diesel
1	Rehabilitat	Topsoil Pla	Pickup Truc	Diesel
2	Building - 1	Concrete F	Backhoe	Diesel
2	Building - 1	Concrete F	Concrete P	Diesel
2	Building - 1	Concrete F	Concrete R	Diesel
2	Building - 1	Concrete F	Excavator	Diesel
2	Building - 1	Concrete F	Fork Truck	Diesel
2	Building - 1	Concrete F	Tool Truck	Diesel
2	Building - 1	Concrete F	Tractor Tra	Diesel
2	Building - 1	Constructic	Survey Cre	Diesel
2	Building - 1	Constructic	Tractor Tra	Diesel
2	Building - 1	Exterior W	Fork Truck	Diesel
2	Building - 1	Exterior W	Generator	Diesel
2	Building - 1	Exterior W	Grout Mixe	Diesel
2	Building - 1	Exterior W	Grout Whe	Diesel
2	Building - 1	Exterior W	Man Lift	Diesel
2	Building - 1	Exterior W	Tool Truck	Diesel
2	Building - 1	Exterior W	Tractor Tra	Diesel
2	Building - 1	Exterior W	Truck Towe	Diesel
2	Building - 1	Interior Bu	Fork Truck	Diesel
2	Building - 1	Interior Bu	Man Lift	Diesel
2	Building - 1	Interior Bu	Tool Truck	Diesel
2	Building - 1	Interior Bu	Tractor Tra	Diesel
2	Building - 1	Roofing	High Lift	Diesel
2	Building - 1	Roofing	Man Lift	Diesel
2	Building - 1	Roofing	Material De	Diesel
2	Building - 1	Roofing	Tractor Tra	Diesel
2	Building - 1	Roofing	Truck Towe	Diesel
2	Building - 1	Security &	High Lift	Diesel
2	Building - 1	Security &	Tool Truck	Diesel
2	Building - 1	Structural S	90 Ton Cra	Diesel
2	Building - 1	Structural S	Concrete P	Diesel
2	Building - 1	Structural S	Concrete T	Diesel
2	Building - 1	Structural S	Fork Truck	Diesel
2	Building - 1	Structural S	Tool Truck	Diesel
2	Building - 1	Structural S	Tractor Tra	Diesel
2	Building - 1	Structural S	Trowel Ma	Diesel
2	Building - 1	Structural S	Truck Towe	Diesel
2	Cargo Appro	Clearing an	Chain Saw	Diesel
2	Cargo Appro	Clearing an	Chipper/St	Diesel
2	Cargo Appro	Clearing an	Pickup Truc	Diesel
2	Cargo Appro	Concrete P	Air Compre	Diesel
2	Cargo Appro	Concrete P	Concrete S	Diesel
2	Cargo Appro	Concrete P	Concrete T	Diesel
2	Cargo Appro	Concrete P	Other Gen	Diesel
2	Cargo Appro	Concrete P	Pickup Truc	Diesel
2	Cargo Appro	Concrete P	Rubber Tir	Diesel
2	Cargo Appro	Concrete P	Slip Form P	Diesel
2	Cargo Appro	Concrete P	Surfacing E	Diesel
2	Cargo Appro	Drainage -	Dozer	Diesel
2	Cargo Appro	Drainage -	Dump Truc	Diesel
2	Cargo Appro	Drainage -	Excavator	Diesel
2	Cargo Appro	Drainage -	Loader	Diesel
2	Cargo Appro	Drainage -	Other Gen	Diesel
2	Cargo Appro	Drainage -	Pickup Truc	Diesel
2	Cargo Appro	Drainage -	Roller	Diesel
2	Cargo Appro	Drainage -	Dump Truc	Diesel
2	Cargo Appro	Drainage -	Loader	Diesel
2	Cargo Appro	Drainage -	Other Gen	Diesel
2	Cargo Appro	Drainage -	Pickup Truc	Diesel
2	Cargo Appro	Drainage -	Tractors/Lc	Diesel
2	Cargo Appro	Dust Contr	Water Truc	Diesel
2	Cargo Appro	Excavation	Dozer	Diesel
2	Cargo Appro	Excavation	Dump Truc	Diesel
2	Cargo Appro	Excavation	Pickup Truc	Diesel
2	Cargo Appro	Excavation	Roller	Diesel
2	Cargo Appro	Excavation	Dozer	Diesel
2	Cargo Appro	Excavation	Dump Truc	Diesel
2	Cargo Appro	Excavation	Excavator	Diesel
2	Cargo Appro	Excavation	Pickup Truc	Diesel
2	Cargo Appro	Excavation	Roller	Diesel
2	Cargo Appro	Excavation	Scraper	Diesel

ACEIT Input - Default Asphalt Application Rates

2	Cargo Apro	Excavation	Dozer	Diesel
2	Cargo Apro	Fencing	Concrete T	Diesel
2	Cargo Apro	Fencing	Dump Truc	Diesel
2	Cargo Apro	Fencing	Other Gen	Diesel
2	Cargo Apro	Fencing	Pickup Tru	Diesel
2	Cargo Apro	Fencing	Skid Steer l	Diesel
2	Cargo Apro	Fencing	Tractors/Lo	Diesel
2	Cargo Apro	Grading	Dozer	Diesel
2	Cargo Apro	Grading	Grader	Diesel
2	Cargo Apro	Grading	Roller	Diesel
2	Cargo Apro	Hydroseed	Hydroseed	Diesel
2	Cargo Apro	Hydroseed	Off-Road T	Diesel
2	Cargo Apro	Lighting	Dump Truc	Diesel
2	Cargo Apro	Lighting	Loader	Diesel
2	Cargo Apro	Lighting	Other Gen	Diesel
2	Cargo Apro	Lighting	Pickup Tru	Diesel
2	Cargo Apro	Lighting	Skid Steer l	Diesel
2	Cargo Apro	Lighting	Tractors/Lo	Diesel
2	Cargo Apro	Markings	Flatbed Tru	Diesel
2	Cargo Apro	Markings	Other Gen	Diesel
2	Cargo Apro	Markings	Pickup Tru	Diesel
2	Cargo Apro	Sealing/Fu	Distributing	Diesel
2	Cargo Apro	Sealing/Fu	Other Gen	Diesel
2	Cargo Apro	Sealing/Fu	Pickup Tru	Diesel
2	Cargo Apro	Soil Erosior	Other Gen	Diesel
2	Cargo Apro	Soil Erosior	Pickup Tru	Diesel
2	Cargo Apro	Soil Erosior	Pumps	Diesel
2	Cargo Apro	Soil Erosior	Tractors/Lo	Diesel
2	Cargo Apro	Subbase Pl	Dozer	Diesel
2	Cargo Apro	Subbase Pl	Dump Truc	Diesel
2	Cargo Apro	Subbase Pl	Pickup Tru	Diesel
2	Cargo Apro	Subbase Pl	Roller	Diesel
2	Cargo Apro	Topsoil Pla	Dozer	Diesel
2	Cargo Apro	Topsoil Pla	Dump Truc	Diesel
2	Cargo Apro	Topsoil Pla	Pickup Tru	Diesel
2	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel
2	Parking Lot	Asphalt Pla	Dump Truc	Diesel
2	Parking Lot	Asphalt Pla	Other Gen	Diesel
2	Parking Lot	Asphalt Pla	Pickup Tru	Diesel
2	Parking Lot	Asphalt Pla	Roller	Diesel
2	Parking Lot	Asphalt Pla	Skid Steer l	Diesel
2	Parking Lot	Asphalt Pla	Surfacing E	Diesel
2	Parking Lot	Clearing an	Chain Saw	Diesel
2	Parking Lot	Clearing an	Chipper/St	Diesel
2	Parking Lot	Clearing an	Pickup Tru	Diesel
2	Parking Lot	Curbing	Concrete T	Diesel
2	Parking Lot	Curbing	Curb/Gutte	Diesel
2	Parking Lot	Curbing	Other Gen	Diesel
2	Parking Lot	Curbing	Pickup Tru	Diesel
2	Parking Lot	Drainage -	Dozer	Diesel
2	Parking Lot	Drainage -	Dump Truc	Diesel
2	Parking Lot	Drainage -	Excavator	Diesel
2	Parking Lot	Drainage -	Loader	Diesel
2	Parking Lot	Drainage -	Other Gen	Diesel
2	Parking Lot	Drainage -	Pickup Tru	Diesel
2	Parking Lot	Drainage -	Dump Truc	Diesel
2	Parking Lot	Drainage -	Roller	Diesel
2	Parking Lot	Drainage -	Dump Truc	Diesel
2	Parking Lot	Drainage -	Loader	Diesel
2	Parking Lot	Drainage -	Other Gen	Diesel
2	Parking Lot	Drainage -	Pickup Tru	Diesel
2	Parking Lot	Drainage -	Tractors/Lo	Diesel
2	Parking Lot	Excavation	Dozer	Diesel
2	Parking Lot	Excavation	Dump Truc	Diesel
2	Parking Lot	Excavation	Pickup Tru	Diesel
2	Parking Lot	Excavation	Roller	Diesel
2	Parking Lot	Excavation	Dozer	Diesel
2	Parking Lot	Excavation	Dump Truc	Diesel
2	Parking Lot	Excavation	Excavator	Diesel
2	Parking Lot	Excavation	Pickup Tru	Diesel
2	Parking Lot	Excavation	Roller	Diesel
2	Parking Lot	Excavation	Scraper	Diesel
2	Parking Lot	Excavation	Dozer	Diesel
2	Parking Lot	Fencing	Concrete T	Diesel
2	Parking Lot	Fencing	Dump Truc	Diesel
2	Parking Lot	Fencing	Other Gen	Diesel
2	Parking Lot	Fencing	Pickup Tru	Diesel
2	Parking Lot	Fencing	Skid Steer l	Diesel
2	Parking Lot	Fencing	Tractors/Lo	Diesel
2	Parking Lot	Grading	Dozer	Diesel
2	Parking Lot	Grading	Grader	Diesel
2	Parking Lot	Grading	Roller	Diesel
2	Parking Lot	Hydroseed	Hydroseed	Diesel
2	Parking Lot	Hydroseed	Off-Road T	Diesel
2	Parking Lot	Markings	Flatbed Tru	Diesel
2	Parking Lot	Markings	Other Gen	Diesel
2	Parking Lot	Markings	Pickup Tru	Diesel
2	Parking Lot	Sidewalks	Concrete T	Diesel
2	Parking Lot	Sidewalks	Dump Truc	Diesel
2	Parking Lot	Sidewalks	Pickup Tru	Diesel
2	Parking Lot	Sidewalks	Tractors/Lo	Diesel
2	Parking Lot	Sidewalks	Vibratory C	Diesel
2	Parking Lot	Soil Erosior	Other Gen	Diesel
2	Parking Lot	Soil Erosior	Pickup Tru	Diesel
2	Parking Lot	Soil Erosior	Pumps	Diesel
2	Parking Lot	Soil Erosior	Tractors/Lo	Diesel
2	Parking Lot	Street Ligh	Dump Truc	Diesel
2	Parking Lot	Street Ligh	Loader	Diesel
2	Parking Lot	Street Ligh	Other Gen	Diesel
2	Parking Lot	Street Ligh	Pickup Tru	Diesel
2	Parking Lot	Street Ligh	Skid Steer l	Diesel
2	Parking Lot	Street Ligh	Tractors/Lo	Diesel
2	Parking Lot	Subbase Pl	Dozer	Diesel
2	Parking Lot	Subbase Pl	Dump Truc	Diesel
2	Parking Lot	Subbase Pl	Pickup Tru	Diesel
2	Parking Lot	Subbase Pl	Roller	Diesel
2	Parking Lot	Topsoil Pla	Dozer	Diesel
2	Parking Lot	Topsoil Pla	Dump Truc	Diesel
2	Parking Lot	Topsoil Pla	Pickup Tru	Diesel
2	Parking Lot	Tree Planti	Flatbed Tru	Diesel
2	Parking Lot	Tree Planti	Other Gen	Diesel
2	Parking Lot	Tree Planti	Pickup Tru	Diesel
2	Parking Lot	Tree Planti	Tractors/Lo	Diesel
3	Building - 1	Concrete F	Backhoe	Diesel
3	Building - 1	Concrete F	Concrete P	Diesel
3	Building - 1	Concrete F	Concrete R	Diesel
3	Building - 1	Concrete F	Excavator	Diesel
3	Building - 1	Concrete F	Fork Truck	Diesel
3	Building - 1	Concrete F	Tool Truck	Diesel
3	Building - 1	Concrete F	Tractor Tra	Diesel
3	Building - 1	Constructic	Survey Cre	Diesel
3	Building - 1	Constructic	Tractor Tra	Diesel
3	Building - 1	Exterior W	Fork Truck	Diesel
3	Building - 1	Exterior W	Generator	Diesel
3	Building - 1	Exterior W	Grout Mixe	Diesel
3	Building - 1	Exterior W	Grout Whe	Diesel
3	Building - 1	Exterior W	Man Lift	Diesel
3	Building - 1	Exterior W	Tool Truck	Diesel
3	Building - 1	Exterior W	Tractor Tra	Diesel
3	Building - 1	Exterior W	Truck Towe	Diesel
3	Building - 1	Interior Bu	Fork Truck	Diesel
3	Building - 1	Interior Bu	Man Lift	Diesel
3	Building - 1	Interior Bu	Tool Truck	Diesel
3	Building - 1	Interior Bu	Tractor Tra	Diesel
3	Building - 1	Roofing	High Lift	Diesel
3	Building - 1	Roofing	Man Lift	Diesel
3	Building - 1	Roofing	Material De	Diesel
3	Building - 1	Roofing	Tractor Tra	Diesel
3	Building - 1	Roofing	Truck Towe	Diesel
3	Building - 1	Security &	High Lift	Diesel
3	Building - 1	Security &	Tool Truck	Diesel
3	Building - 1	Structural S	90 Ton Cra	Diesel
3	Building - 1	Structural S	Concrete P	Diesel
3	Building - 1	Structural S	Concrete T	Diesel
3	Building - 1	Structural S	Fork Truck	Diesel
3	Building - 1	Structural S	Tool Truck	Diesel
3	Building - 1	Structural S	Tractor Tra	Diesel
3	Building - 1	Structural S	Trowel Ma	Diesel
3	Building - 1	Structural S	Truck Towe	Diesel
3	Cargo Apro	Clearing an	Chain Saw	Diesel
3	Cargo Apro	Clearing an	Chipper/St	Diesel
3	Cargo Apro	Clearing an	Pickup Tru	Diesel
3	Cargo Apro	Concrete P	Air Compre	Diesel
3	Cargo Apro	Concrete P	Concrete S	Diesel
3	Cargo Apro	Concrete P	Concrete T	Diesel
3	Cargo Apro	Concrete P	Other Gen	Diesel
3	Cargo Apro	Concrete P	Pickup Tru	Diesel
3	Cargo Apro	Concrete P	Rubber Tir	Diesel
3	Cargo Apro	Concrete P	Slip Form P	Diesel
3	Cargo Apro	Concrete P	Surfacing E	Diesel
3	Cargo Apro	Drainage -	Dozer	Diesel
3	Cargo Apro	Drainage -	Dump Truc	Diesel
3	Cargo Apro	Drainage -	Excavator	Diesel
3	Cargo Apro	Drainage -	Loader	Diesel
3	Cargo Apro	Drainage -	Other Gen	Diesel
3	Cargo Apro	Drainage -	Pickup Tru	Diesel
3	Cargo Apro	Drainage -	Roller	Diesel
3	Cargo Apro	Drainage -	Dump Truc	Diesel
3	Cargo Apro	Drainage -	Loader	Diesel
3	Cargo Apro	Drainage -	Other Gen	Diesel
3	Cargo Apro	Drainage -	Pickup Tru	Diesel
3	Cargo Apro	Drainage -	Tractors/Lo	Diesel
3	Cargo Apro	Dust Contr	Water Truc	Diesel

ACEIT Input - Default Asphalt Application Rates

3	Cargo Apro	Excavation	Dozer	Diesel
3	Cargo Apro	Excavation	Dump Truc	Diesel
3	Cargo Apro	Excavation	Pickup Truc	Diesel
3	Cargo Apro	Excavation	Roller	Diesel
3	Cargo Apro	Excavation	Dozer	Diesel
3	Cargo Apro	Excavation	Dump Truc	Diesel
3	Cargo Apro	Excavation	Excavator	Diesel
3	Cargo Apro	Excavation	Pickup Truc	Diesel
3	Cargo Apro	Excavation	Roller	Diesel
3	Cargo Apro	Excavation	Scraper	Diesel
3	Cargo Apro	Excavation	Dozer	Diesel
3	Cargo Apro	Fencing	Concrete T	Diesel
3	Cargo Apro	Fencing	Dump Truc	Diesel
3	Cargo Apro	Fencing	Other Gen	Diesel
3	Cargo Apro	Fencing	Pickup Truc	Diesel
3	Cargo Apro	Fencing	Skid Steer l	Diesel
3	Cargo Apro	Fencing	Tractors/Lc	Diesel
3	Cargo Apro	Grading	Dozer	Diesel
3	Cargo Apro	Grading	Grader	Diesel
3	Cargo Apro	Grading	Roller	Diesel
3	Cargo Apro	Hydroseed	Hydroseed	Diesel
3	Cargo Apro	Hydroseed	Off-Road T	Diesel
3	Cargo Apro	Lighting	Dump Truc	Diesel
3	Cargo Apro	Lighting	Loader	Diesel
3	Cargo Apro	Lighting	Other Gen	Diesel
3	Cargo Apro	Lighting	Pickup Truc	Diesel
3	Cargo Apro	Lighting	Skid Steer l	Diesel
3	Cargo Apro	Lighting	Tractors/Lc	Diesel
3	Cargo Apro	Markings	Flatbed Tru	Diesel
3	Cargo Apro	Markings	Other Gen	Diesel
3	Cargo Apro	Markings	Pickup Truc	Diesel
3	Cargo Apro	Sealing/Fu	Distributin	Diesel
3	Cargo Apro	Sealing/Fu	Other Gen	Diesel
3	Cargo Apro	Sealing/Fu	Pickup Truc	Diesel
3	Cargo Apro	Soil Erosior	Other Gen	Diesel
3	Cargo Apro	Soil Erosior	Pickup Truc	Diesel
3	Cargo Apro	Soil Erosior	Pumps	Diesel
3	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel
3	Cargo Apro	Subbase Pl	Dozer	Diesel
3	Cargo Apro	Subbase Pl	Dump Truc	Diesel
3	Cargo Apro	Subbase Pl	Pickup Truc	Diesel
3	Cargo Apro	Subbase Pl	Roller	Diesel
3	Cargo Apro	Topsoil Pla	Dozer	Diesel
3	Cargo Apro	Topsoil Pla	Dump Truc	Diesel
3	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel
3	Drainage S	Drainage -	Dozer	Diesel
3	Drainage S	Drainage -	Dump Truc	Diesel
3	Drainage S	Drainage -	Excavator	Diesel
3	Drainage S	Drainage -	Loader	Diesel
3	Drainage S	Drainage -	Other Gen	Diesel
3	Drainage S	Drainage -	Pickup Truc	Diesel
3	Drainage S	Drainage -	Roller	Diesel
3	Drainage S	Drainage -	Dozer	Diesel
3	Drainage S	Drainage -	Dump Truc	Diesel
3	Drainage S	Drainage -	Excavator	Diesel
3	Drainage S	Drainage -	Loader	Diesel
3	Drainage S	Drainage -	Other Gen	Diesel
3	Drainage S	Drainage -	Pickup Truc	Diesel
3	Drainage S	Drainage -	Roller	Diesel
3	Drainage S	Drainage S	Dump Truc	Diesel
3	Drainage S	Drainage S	Excavator	Diesel
3	Drainage S	Drainage S	Other Gen	Diesel
3	Drainage S	Drainage S	Pickup Truc	Diesel
3	Drainage S	Hydroseed	Hydroseed	Diesel
3	Drainage S	Hydroseed	Off-Road T	Diesel
3	Drainage S	Soil Erosior	Other Gen	Diesel
3	Drainage S	Soil Erosior	Pickup Truc	Diesel
3	Drainage S	Soil Erosior	Pumps	Diesel
3	Drainage S	Soil Erosior	Tractors/Lc	Diesel
3	Drainage S	Topsoil Pla	Dozer	Diesel
3	Drainage S	Topsoil Pla	Dump Truc	Diesel
3	Drainage S	Topsoil Pla	Pickup Truc	Diesel
3	Fuel Tanks	Clearing an	Chain Saw	Diesel
3	Fuel Tanks	Clearing an	Chipper/St	Diesel
3	Fuel Tanks	Clearing an	Pickup Truc	Diesel
3	Fuel Tanks	Concrete P	Air Compre	Diesel
3	Fuel Tanks	Concrete P	Concrete S	Diesel
3	Fuel Tanks	Concrete P	Concrete T	Diesel
3	Fuel Tanks	Concrete P	Other Gen	Diesel
3	Fuel Tanks	Concrete P	Pickup Truc	Diesel
3	Fuel Tanks	Concrete P	Rubber Tir	Diesel
3	Fuel Tanks	Concrete P	Slip Form P	Diesel
3	Fuel Tanks	Concrete P	Surfacing E	Diesel
3	Fuel Tanks	Constructic	Crane	Diesel
3	Fuel Tanks	Constructic	Other Gen	Diesel
3	Fuel Tanks	Constructic	Pickup Truc	Diesel
3	Fuel Tanks	Drainage -	Excavator	Diesel
3	Fuel Tanks	Drainage	Dozer	Diesel
3	Fuel Tanks	Drainage	Dump Truc	Diesel
3	Fuel Tanks	Drainage	Loader	Diesel
3	Fuel Tanks	Drainage	Other Gen	Diesel
3	Fuel Tanks	Drainage	Pickup Truc	Diesel
3	Fuel Tanks	Drainage	Roller	Diesel
3	Fuel Tanks	Dust Contr	Water Truc	Diesel
3	Fuel Tanks	Excavation	Dozer	Diesel
3	Fuel Tanks	Excavation	Dump Truc	Diesel
3	Fuel Tanks	Excavation	Pickup Truc	Diesel
3	Fuel Tanks	Excavation	Roller	Diesel
3	Fuel Tanks	Excavation	Dozer	Diesel
3	Fuel Tanks	Excavation	Dump Truc	Diesel
3	Fuel Tanks	Excavation	Excavator	Diesel
3	Fuel Tanks	Excavation	Pickup Truc	Diesel
3	Fuel Tanks	Excavation	Roller	Diesel
3	Fuel Tanks	Excavation	Scraper	Diesel
3	Fuel Tanks	Excavation	Dozer	Diesel
3	Fuel Tanks	Fencing	Concrete T	Diesel
3	Fuel Tanks	Fencing	Dump Truc	Diesel
3	Fuel Tanks	Fencing	Other Gen	Diesel
3	Fuel Tanks	Fencing	Pickup Truc	Diesel
3	Fuel Tanks	Fencing	Skid Steer l	Diesel
3	Fuel Tanks	Fencing	Tractors/Lc	Diesel
3	Fuel Tanks	Grading	Dozer	Diesel
3	Fuel Tanks	Grading	Grader	Diesel
3	Fuel Tanks	Grading	Roller	Diesel
3	Fuel Tanks	Hydroseed	Hydroseed	Diesel
3	Fuel Tanks	Hydroseed	Off-Road T	Diesel
3	Fuel Tanks	Markings	Flatbed Tru	Diesel
3	Fuel Tanks	Markings	Other Gen	Diesel
3	Fuel Tanks	Markings	Pickup Truc	Diesel
3	Fuel Tanks	Soil Erosior	Other Gen	Diesel
3	Fuel Tanks	Soil Erosior	Pickup Truc	Diesel
3	Fuel Tanks	Soil Erosior	Pumps	Diesel
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel
3	Fuel Tanks	Street Ligh	Dump Truc	Diesel
3	Fuel Tanks	Street Ligh	Loader	Diesel
3	Fuel Tanks	Street Ligh	Other Gen	Diesel
3	Fuel Tanks	Street Ligh	Pickup Truc	Diesel
3	Fuel Tanks	Street Ligh	Skid Steer l	Diesel
3	Fuel Tanks	Street Ligh	Tractors/Lc	Diesel
3	Fuel Tanks	Subbase Pl	Dozer	Diesel
3	Fuel Tanks	Subbase Pl	Dump Truc	Diesel
3	Fuel Tanks	Subbase Pl	Pickup Truc	Diesel
3	Fuel Tanks	Subbase Pl	Roller	Diesel
3	Fuel Tanks	Topsoil Pla	Dozer	Diesel
3	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel
3	Fuel Tanks	Topsoil Pla	Pickup Truc	Diesel
3	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel
3	Parking Lot	Asphalt Pla	Dump Truc	Diesel
3	Parking Lot	Asphalt Pla	Other Gen	Diesel
3	Parking Lot	Asphalt Pla	Pickup Truc	Diesel
3	Parking Lot	Asphalt Pla	Roller	Diesel
3	Parking Lot	Asphalt Pla	Skid Steer l	Diesel
3	Parking Lot	Asphalt Pla	Surfacing E	Diesel
3	Parking Lot	Clearing an	Chain Saw	Diesel
3	Parking Lot	Clearing an	Chipper/St	Diesel
3	Parking Lot	Clearing an	Pickup Truc	Diesel
3	Parking Lot	Curbing	Concrete T	Diesel
3	Parking Lot	Curbing	Curb/Gutte	Diesel
3	Parking Lot	Curbing	Other Gen	Diesel
3	Parking Lot	Curbing	Pickup Truc	Diesel
3	Parking Lot	Drainage -	Dozer	Diesel
3	Parking Lot	Drainage -	Dump Truc	Diesel
3	Parking Lot	Drainage -	Excavator	Diesel
3	Parking Lot	Drainage -	Loader	Diesel
3	Parking Lot	Drainage -	Other Gen	Diesel
3	Parking Lot	Drainage -	Pickup Truc	Diesel
3	Parking Lot	Drainage -	Roller	Diesel
3	Parking Lot	Drainage -	Dump Truc	Diesel
3	Parking Lot	Drainage -	Loader	Diesel
3	Parking Lot	Drainage -	Other Gen	Diesel
3	Parking Lot	Drainage -	Pickup Truc	Diesel
3	Parking Lot	Drainage -	Tractors/Lc	Diesel
3	Parking Lot	Excavation	Dozer	Diesel
3	Parking Lot	Excavation	Dump Truc	Diesel
3	Parking Lot	Excavation	Pickup Truc	Diesel
3	Parking Lot	Excavation	Roller	Diesel
3	Parking Lot	Excavation	Dozer	Diesel
3	Parking Lot	Excavation	Dump Truc	Diesel
3	Parking Lot	Excavation	Excavator	Diesel
3	Parking Lot	Excavation	Pickup Truc	Diesel
3	Parking Lot	Excavation	Roller	Diesel
3	Parking Lot	Excavation	Scraper	Diesel

ACEIT Input - Default Asphalt Application Rates

3	Parking Lot	Excavation	Dozer	Diesel
3	Parking Lot	Fencing	Concrete T	Diesel
3	Parking Lot	Fencing	Dump Truc	Diesel
3	Parking Lot	Fencing	Other Gen	Diesel
3	Parking Lot	Fencing	Pickup Truc	Diesel
3	Parking Lot	Fencing	Skid Steer l	Diesel
3	Parking Lot	Fencing	Tractors/Lc	Diesel
3	Parking Lot	Grading	Dozer	Diesel
3	Parking Lot	Grading	Grader	Diesel
3	Parking Lot	Grading	Roller	Diesel
3	Parking Lot	Hydroseed	Hydroseed	Diesel
3	Parking Lot	Hydroseed	Off-Road T	Diesel
3	Parking Lot	Markings	Flatbed Tru	Diesel
3	Parking Lot	Markings	Other Gen	Diesel
3	Parking Lot	Markings	Pickup Truc	Diesel
3	Parking Lot	Sidewalks	Concrete T	Diesel
3	Parking Lot	Sidewalks	Dump Truc	Diesel
3	Parking Lot	Sidewalks	Pickup Truc	Diesel
3	Parking Lot	Sidewalks	Tractors/Lc	Diesel
3	Parking Lot	Sidewalks	Vibratory C	Diesel
3	Parking Lot	Soil Erosior	Other Gen	Diesel
3	Parking Lot	Soil Erosior	Pickup Truc	Diesel
3	Parking Lot	Soil Erosior	Pumps	Diesel
3	Parking Lot	Soil Erosior	Tractors/Lc	Diesel
3	Parking Lot	Street Ligh	Dump Truc	Diesel
3	Parking Lot	Street Ligh	Loader	Diesel
3	Parking Lot	Street Ligh	Other Gen	Diesel
3	Parking Lot	Street Ligh	Pickup Truc	Diesel
3	Parking Lot	Street Ligh	Skid Steer l	Diesel
3	Parking Lot	Street Ligh	Tractors/Lc	Diesel
3	Parking Lot	Subbase Pl	Dozer	Diesel
3	Parking Lot	Subbase Pl	Dump Truc	Diesel
3	Parking Lot	Subbase Pl	Pickup Truc	Diesel
3	Parking Lot	Subbase Pl	Roller	Diesel
3	Parking Lot	Topsoil Pla	Dozer	Diesel
3	Parking Lot	Topsoil Pla	Dump Truc	Diesel
3	Parking Lot	Topsoil Pla	Pickup Truc	Diesel
3	Parking Lot	Tree Planti	Flatbed Tru	Diesel
3	Parking Lot	Tree Planti	Other Gen	Diesel
3	Parking Lot	Tree Planti	Pickup Truc	Diesel
3	Parking Lot	Tree Planti	Tractors/Lc	Diesel
3	Taxiways	Asphalt Pla	Asphalt Pa	Diesel
3	Taxiways	Asphalt Pla	Dump Truc	Diesel
3	Taxiways	Asphalt Pla	Other Gen	Diesel
3	Taxiways	Asphalt Pla	Pickup Truc	Diesel
3	Taxiways	Asphalt Pla	Roller	Diesel
3	Taxiways	Asphalt Pla	Skid Steer l	Diesel
3	Taxiways	Asphalt Pla	Surfacing E	Diesel
3	Taxiways	Clearing an	Chain Saw	Diesel
3	Taxiways	Clearing an	Chipper/St	Diesel
3	Taxiways	Clearing an	Pickup Truc	Diesel
3	Taxiways	Drainage -	Dozer	Diesel
3	Taxiways	Drainage -	Dump Truc	Diesel
3	Taxiways	Drainage -	Excavator	Diesel
3	Taxiways	Drainage -	Loader	Diesel
3	Taxiways	Drainage -	Other Gen	Diesel
3	Taxiways	Drainage -	Pickup Truc	Diesel
3	Taxiways	Drainage -	Roller	Diesel
3	Taxiways	Drainage -	Dump Truc	Diesel
3	Taxiways	Drainage -	Loader	Diesel
3	Taxiways	Drainage -	Other Gen	Diesel
3	Taxiways	Drainage -	Pickup Truc	Diesel
3	Taxiways	Drainage -	Tractors/Lc	Diesel
3	Taxiways	Dust Contr	Water Truc	Diesel
3	Taxiways	Excavation	Dozer	Diesel
3	Taxiways	Excavation	Dump Truc	Diesel
3	Taxiways	Excavation	Pickup Truc	Diesel
3	Taxiways	Excavation	Roller	Diesel
3	Taxiways	Excavation	Dozer	Diesel
3	Taxiways	Excavation	Dump Truc	Diesel
3	Taxiways	Excavation	Excavator	Diesel
3	Taxiways	Excavation	Pickup Truc	Diesel
3	Taxiways	Excavation	Roller	Diesel
3	Taxiways	Excavation	Scraper	Diesel
3	Taxiways	Excavation	Dozer	Diesel
3	Taxiways	Fencing	Concrete T	Diesel
3	Taxiways	Fencing	Dump Truc	Diesel
3	Taxiways	Fencing	Other Gen	Diesel
3	Taxiways	Fencing	Pickup Truc	Diesel
3	Taxiways	Fencing	Skid Steer l	Diesel
3	Taxiways	Fencing	Tractors/Lc	Diesel
3	Taxiways	Grading	Dozer	Diesel
3	Taxiways	Grading	Grader	Diesel
3	Taxiways	Grading	Roller	Diesel
3	Taxiways	Hydroseed	Hydroseed	Diesel
3	Taxiways	Hydroseed	Off-Road T	Diesel
3	Taxiways	Lighting	Dump Truc	Diesel
3	Taxiways	Lighting	Loader	Diesel
3	Taxiways	Lighting	Other Gen	Diesel
3	Taxiways	Lighting	Pickup Truc	Diesel
3	Taxiways	Lighting	Skid Steer l	Diesel
3	Taxiways	Lighting	Tractors/Lc	Diesel
3	Taxiways	Markings	Flatbed Tru	Diesel
3	Taxiways	Markings	Other Gen	Diesel
3	Taxiways	Markings	Pickup Truc	Diesel
3	Taxiways	Soil Erosior	Other Gen	Diesel
3	Taxiways	Soil Erosior	Pickup Truc	Diesel
3	Taxiways	Soil Erosior	Pumps	Diesel
3	Taxiways	Soil Erosior	Tractors/Lc	Diesel
3	Taxiways	Subbase Pl	Dozer	Diesel
3	Taxiways	Subbase Pl	Dump Truc	Diesel
3	Taxiways	Subbase Pl	Pickup Truc	Diesel
3	Taxiways	Subbase Pl	Roller	Diesel
3	Taxiways	Topsoil Pla	Dozer	Diesel
3	Taxiways	Topsoil Pla	Dump Truc	Diesel
3	Taxiways	Topsoil Pla	Pickup Truc	Diesel

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Overall Size

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Scenario ID	Project	Project Size	User Input	Unit
1	Cargo Apro	What is the	2.67	$ Million(s)
1	Cargo Apro	What is the	428	Feet
1	Cargo Apro	What is the	250	Feet
1	Parking Lot	What is the	0.4	$ Million(s)
1	Parking Lot	What is the	970	Feet
1	Parking Lot	What is the	150	Feet
1	Rehabilitat	What is the	1.5	$ Million(s)
1	Rehabilitat	What is the	3675	Feet
1	Rehabilitat	What is the	250	Feet
2	Building - 1	What is the	12.5	$ Million(s)
2	Cargo Apro	What is the	4	$ Million(s)
2	Cargo Apro	What is the	642	Feet
2	Cargo Apro	What is the	250	Feet
2	Parking Lot	What is the	0.6	$ Million(s)
2	Parking Lot	What is the	1455	Feet
2	Parking Lot	What is the	150	Feet
3	Building - 1	What is the	12.5	$ Million(s)
3	Cargo Apro	What is the	5.33	$ Million(s)
3	Cargo Apro	What is the	855	Feet
3	Cargo Apro	What is the	250	Feet
3	Drainage S	What is the	1.5	$ Million(s)
3	Drainage S	What is the	6	Feet
3	Drainage S	What is the	600	Feet
3	Drainage S	What is the	20	Feet
3	Fuel Tanks	What is the	2	$ Million(s)
3	Fuel Tanks	What is the	4	Feet
3	Fuel Tanks	What is the	415	Feet
3	Fuel Tanks	What is the	100	Feet
3	Fuel Tanks	What is the	5	---
3	Parking Lot	What is the	1	$ Million(s)
3	Parking Lot	What is the	2425	Feet
3	Parking Lot	What is the	150	Feet
3	Taxiways	What is the	2	$ Million(s)
3	Taxiways	What is the	1205	Feet
3	Taxiways	What is the	100	Feet

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Size Detail

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ScenarioID	Project	Constructic	Default Act	Unit	User Activity Size
1	Cargo Apro	Clearing an	2.6	Acres	
1	Cargo Apro	Concrete P	4948.8	Cubic Yards	
1	Cargo Apro	Drainage -	438	Linear Feet	
1	Cargo Apro	Drainage -	876	Linear Feet	
1	Cargo Apro	Dust Contr	60	Days	
1	Cargo Apro	Excavation	4948.8	Cubic Yards	
1	Cargo Apro	Excavation	4948.8	Cubic Yards	
1	Cargo Apro	Excavation	11877	Square Yards	
1	Cargo Apro	Fencing	428	Linear Feet	
1	Cargo Apro	Grading	12640.7	Square Yards	
1	Cargo Apro	Hydroseed	113880	Square Feet	
1	Cargo Apro	Lighting	1356	Linear Feet	
1	Cargo Apro	Markings	107000	Square Feet	
1	Cargo Apro	Sealing/Fu	11877	Square Yards	
1	Cargo Apro	Soil Erosior	2.6	Acres	
1	Cargo Apro	Subbase Pl	11877	Square Yards	
1	Cargo Apro	Subbase Pl	3959	Cubic Yards	
1	Cargo Apro	Topsoil Pla	2106.8	Cubic Yards	
1	Parking Lot	Asphalt Pla	16150.5	Square Yards	

ACEIT Input - Default Asphalt Application Rates

1	Parking Lot	Clearing an	3.6	Acres
1	Parking Lot	Curbing	970	Linear Feet
1	Parking Lot	Drainage -	980	Linear Feet
1	Parking Lot	Drainage -	5880	Linear Feet
1	Parking Lot	Excavation	6729.4	Cubic Yards
1	Parking Lot	Excavation	6729.4	Cubic Yards
1	Parking Lot	Excavation	16150.5	Square Yards
1	Parking Lot	Fencing	970	Linear Feet
1	Parking Lot	Grading	17404.8	Square Yards
1	Parking Lot	Hydroseed	156800	Square Feet
1	Parking Lot	Markings	2240	Square Feet
1	Parking Lot	Sidewalks	2910	Square Feet
1	Parking Lot	Soil Erosior	3.6	Acres
1	Parking Lot	Street Ligh	3.6	Lights
1	Parking Lot	Subbase Pl	16150.5	Square Yards
1	Parking Lot	Subbase Pl	5383.5	Cubic Yards
1	Parking Lot	Topsoil Pla	2900.8	Cubic Yards
1	Parking Lot	Tree Planti	0	Trees
1	Rehabilitat	Asphalt Pla	101981.3	Square Yards
1	Rehabilitat	Cold Millin	101981.3	Square Yards
1	Rehabilitat	Dust Contr	60	Days
1	Rehabilitat	Excavation	8498.4	Cubic Yards
1	Rehabilitat	Excavation	20396.3	Square Yards
1	Rehabilitat	Grading	21269.8	Square Yards
1	Rehabilitat	Hydroseed	21269.8	Square Feet
1	Rehabilitat	Lighting	7850	Linear Feet
1	Rehabilitat	Markings	918750	Square Feet
1	Rehabilitat	Sealing Rar	3675	Linear Feet
1	Rehabilitat	Soil Erosior	4.4	Acres
1	Rehabilitat	Subbase Pl	101981.3	Square Yards
1	Rehabilitat	Subbase Pl	33993.8	Cubic Yards
1	Rehabilitat	Topsoil Pla	3545	Cubic Yards
2	Cargo Apro	Clearing an	3.9	Acres
2	Cargo Apro	Concrete P	7423.1	Cubic Yards
2	Cargo Apro	Drainage -	652	Linear Feet
2	Cargo Apro	Drainage -	1304	Linear Feet
2	Cargo Apro	Dust Contr	90	Days
2	Cargo Apro	Excavation	7423.1	Cubic Yards
2	Cargo Apro	Excavation	7423.1	Cubic Yards
2	Cargo Apro	Excavation	17815.5	Square Yards
2	Cargo Apro	Fencing	642	Linear Feet
2	Cargo Apro	Grading	18816.7	Square Yards
2	Cargo Apro	Hydroseed	169520	Square Feet
2	Cargo Apro	Lighting	1784	Linear Feet
2	Cargo Apro	Markings	160500	Square Feet
2	Cargo Apro	Sealing/Fu	17815.5	Square Yards
2	Cargo Apro	Soil Erosior	3.9	Acres
2	Cargo Apro	Subbase Pl	17815.5	Square Yards
2	Cargo Apro	Subbase Pl	5938.5	Cubic Yards
2	Cargo Apro	Topsoil Pla	3136.1	Cubic Yards
2	Parking Lot	Asphalt Pla	24225.8	Square Yards
2	Parking Lot	Clearing an	5.4	Acres
2	Parking Lot	Curbing	1455	Linear Feet
2	Parking Lot	Drainage -	1465	Linear Feet
2	Parking Lot	Drainage -	8790	Linear Feet
2	Parking Lot	Excavation	10094.1	Cubic Yards
2	Parking Lot	Excavation	10094.1	Cubic Yards
2	Parking Lot	Excavation	24225.8	Square Yards
2	Parking Lot	Fencing	1455	Linear Feet
2	Parking Lot	Grading	26018.4	Square Yards
2	Parking Lot	Hydroseed	234400	Square Feet
2	Parking Lot	Markings	3210	Square Feet
2	Parking Lot	Sidewalks	4365	Square Feet
2	Parking Lot	Soil Erosior	5.4	Acres
2	Parking Lot	Street Ligh	5.5	Lights
2	Parking Lot	Subbase Pl	24225.8	Square Yards
2	Parking Lot	Subbase Pl	8075.3	Cubic Yards
2	Parking Lot	Topsoil Pla	4336.4	Cubic Yards
2	Parking Lot	Tree Planti	0	Trees
3	Cargo Apro	Clearing an	5.2	Acres
3	Cargo Apro	Concrete P	9885.9	Cubic Yards
3	Cargo Apro	Drainage -	865	Linear Feet
3	Cargo Apro	Drainage -	1730	Linear Feet
3	Cargo Apro	Dust Contr	180	Days
3	Cargo Apro	Excavation	9885.9	Cubic Yards
3	Cargo Apro	Excavation	9885.9	Cubic Yards
3	Cargo Apro	Excavation	23726.3	Square Yards
3	Cargo Apro	Fencing	855	Linear Feet
3	Cargo Apro	Grading	24963.9	Square Yards
3	Cargo Apro	Hydroseed	224900	Square Feet
3	Cargo Apro	Lighting	2210	Linear Feet
3	Cargo Apro	Markings	213750	Square Feet
3	Cargo Apro	Sealing/Fu	23726.3	Square Yards
3	Cargo Apro	Soil Erosior	5.2	Acres
3	Cargo Apro	Subbase Pl	23726.3	Square Yards
3	Cargo Apro	Subbase Pl	7908.8	Cubic Yards
3	Cargo Apro	Topsoil Pla	4160.7	Cubic Yards
3	Drainage S	Drainage -	600	Linear Feet
3	Drainage S	Drainage -	600	Linear Feet
3	Drainage S	Drainage S	1.2	Units
3	Drainage S	Hydroseed	12200	Square Feet
3	Drainage S	Soil Erosior	0.3	Acres
3	Drainage S	Topsoil Pla	225.7	Cubic Yards
3	Fuel Tanks	Clearing an	1.1	Acres
3	Fuel Tanks	Concrete P	1919.4	Cubic Yards
3	Fuel Tanks	Constructio	5	Tank
3	Fuel Tanks	Drainage -	425	Linear Feet
3	Fuel Tanks	Drainage	425	Linear Feet
3	Fuel Tanks	Dust Contr	180	Days
3	Fuel Tanks	Excavation	6142	Cubic Yards
3	Fuel Tanks	Excavation	6142	Cubic Yards
3	Fuel Tanks	Excavation	4606.5	Square Yards
3	Fuel Tanks	Fencing	415	Linear Feet
3	Fuel Tanks	Grading	5189.3	Square Yards
3	Fuel Tanks	Hydroseed	46750	Square Feet
3	Fuel Tanks	Markings	41500	Square Feet
3	Fuel Tanks	Soil Erosior	1.1	Acres
3	Fuel Tanks	Street Ligh	1	Lights
3	Fuel Tanks	Subbase Pl	4606.5	Square Yards
3	Fuel Tanks	Subbase Pl	1535.5	Cubic Yards
3	Fuel Tanks	Topsoil Pla	1729.8	Cubic Yards
3	Parking Lot	Asphalt Pla	40376.3	Square Yards
3	Parking Lot	Clearing an	9	Acres
3	Parking Lot	Curbing	2425	Linear Feet
3	Parking Lot	Drainage -	2435	Linear Feet
3	Parking Lot	Drainage -	14610	Linear Feet
3	Parking Lot	Excavation	16823.4	Cubic Yards
3	Parking Lot	Excavation	16823.4	Cubic Yards
3	Parking Lot	Excavation	40376.3	Square Yards
3	Parking Lot	Fencing	2425	Linear Feet
3	Parking Lot	Grading	43245.6	Square Yards
3	Parking Lot	Hydroseed	389600	Square Feet
3	Parking Lot	Markings	5150	Square Feet
3	Parking Lot	Sidewalks	7275	Square Feet
3	Parking Lot	Soil Erosior	9	Acres
3	Parking Lot	Street Ligh	9.1	Lights
3	Parking Lot	Subbase Pl	40376.3	Square Yards
3	Parking Lot	Subbase Pl	13458.8	Cubic Yards
3	Parking Lot	Topsoil Pla	7207.6	Cubic Yards
3	Parking Lot	Tree Planti	5	Trees
3	Taxiways	Asphalt Pla	13375.5	Square Yards
3	Taxiways	Clearing an	3.1	Acres
3	Taxiways	Drainage -	1215	Linear Feet
3	Taxiways	Drainage -	2430	Linear Feet
3	Taxiways	Dust Contr	180	Days
3	Taxiways	Excavation	5573.1	Cubic Yards
3	Taxiways	Excavation	5573.1	Cubic Yards
3	Taxiways	Excavation	13375.5	Square Yards
3	Taxiways	Fencing	1205	Linear Feet
3	Taxiways	Grading	14835.2	Square Yards
3	Taxiways	Hydroseed	133650	Square Feet
3	Taxiways	Lighting	2610	Linear Feet
3	Taxiways	Markings	120500	Square Feet
3	Taxiways	Soil Erosior	3.1	Acres
3	Taxiways	Subbase Pl	13375.5	Square Yards
3	Taxiways	Subbase Pl	4458.5	Cubic Yards
3	Taxiways	Topsoil Pla	2472.5	Cubic Yards

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Activity: Non-Road

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Scenario ID	Project	Constructic	Equipment	Fuel Type	Activity Siz	Activity Ra	Default Act	Activity Un	User Activity Data
1	Cargo Apro	Clearing an	Chain Saw	Diesel	2.60 Acre	12 Hours p	31.2	hours	
1	Cargo Apro	Clearing an	Chipper/St	Diesel	2.60 Acre	12 Hours p	31.2	hours	
1	Cargo Apro	Clearing an	Pickup Truc	Diesel	2.60 Acre	16 Hours p	41.6	hours	
1	Cargo Apro	Concrete P	Air Compre	Diesel	4948.80 CY	8 Hours pe	39.5904	hours	
1	Cargo Apro	Concrete P	Concrete S	Diesel	4948.80 CY	8 Hours pe	39.5904	hours	
1	Cargo Apro	Concrete P	Concrete T	Diesel	4948.80 CY	8 Hours pe	164.96	hours	
1	Cargo Apro	Concrete P	Other Gen	Diesel	4948.80 CY	16 Hours p	79.1808	hours	
1	Cargo Apro	Concrete P	Pickup Truc	Diesel	4948.80 CY	24 Hours p	118.7712	hours	
1	Cargo Apro	Concrete P	Rubber Tir	Diesel	4948.80 CY	8 Hours pe	39.5904	hours	
1	Cargo Apro	Concrete P	Slip Form P	Diesel	4948.80 CY	8 Hours pe	39.5904	hours	
1	Cargo Apro	Concrete P	Surfacing E	Diesel	4948.80 CY	8 Hours pe	39.5904	hours	
1	Cargo Apro	Drainage -	Dozer	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Excavator	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Loader	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Other Gen	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Roller	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	876.00 LF	8 Hours pe	7.786667	hours	

ACEIT Input - Default Asphalt Application Rates

1	Cargo Apro	Drainage -	Loader	Diesel	876.00	LF	8 Hours pe	7.786667	hours
1	Cargo Apro	Drainage -	Other Gen	Diesel	876.00	LF	8 Hours pe	7.786667	hours
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	876.00	LF	8 Hours pe	7.786667	hours
1	Cargo Apro	Drainage -	Tractors/Lc	Diesel	876.00	LF	8 Hours pe	7.786667	hours
1	Cargo Apro	Dust Contr	Water Truc	Diesel	60.00	Day	8 Hours pe	480	hours
1	Cargo Apro	Excavation	Dozer	Diesel	4948.80	CY	8 Hours pe	65.984	hours
1	Cargo Apro	Excavation	Dump Truc	Diesel	4948.80	CY	8 Hours pe	65.984	hours
1	Cargo Apro	Excavation	Pickup Truc	Diesel	4948.80	CY	8 Hours pe	65.984	hours
1	Cargo Apro	Excavation	Roller	Diesel	4948.80	CY	8 Hours pe	30.45415	hours
1	Cargo Apro	Excavation	Dozer	Diesel	4948.80	CY	8 Hours pe	49.488	hours
1	Cargo Apro	Excavation	Dump Truc	Diesel	4948.80	CY	8 Hours pe	131.968	hours
1	Cargo Apro	Excavation	Excavator	Diesel	4948.80	CY	8 Hours pe	39.5904	hours
1	Cargo Apro	Excavation	Pickup Truc	Diesel	4948.80	CY	8 Hours pe	39.5904	hours
1	Cargo Apro	Excavation	Roller	Diesel	4948.80	CY	8 Hours pe	39.5904	hours
1	Cargo Apro	Excavation	Scraper	Diesel	4948.80	CY	8 Hours pe	49.488	hours
1	Cargo Apro	Excavation	Dozer	Diesel	11877.00	S	8 Hours pe	18.63059	hours
1	Cargo Apro	Fencing	Concrete T	Diesel	428.00	LF	2 Hours pe	4.755556	hours
1	Cargo Apro	Fencing	Dump Truc	Diesel	428.00	LF	8 Hours pe	19.02222	hours
1	Cargo Apro	Fencing	Other Gen	Diesel	428.00	LF	8 Hours pe	19.02222	hours
1	Cargo Apro	Fencing	Pickup Truc	Diesel	428.00	LF	8 Hours pe	19.02222	hours
1	Cargo Apro	Fencing	Skid Steer l	Diesel	428.00	LF	8 Hours pe	19.02222	hours
1	Cargo Apro	Fencing	Tractors/Lc	Diesel	428.00	LF	8 Hours pe	19.02222	hours
1	Cargo Apro	Grading	Dozer	Diesel	12640.70	S	8 Hours pe	12.6407	hours
1	Cargo Apro	Grading	Grader	Diesel	12640.70	S	8 Hours pe	12.6407	hours
1	Cargo Apro	Grading	Roller	Diesel	12640.70	S	8 Hours pe	12.6407	hours
1	Cargo Apro	Hydroseed	Hydroseed	Diesel	113880.00		8 Hours pe	11.388	hours
1	Cargo Apro	Hydroseed	Off-Road T	Diesel	113880.00		8 Hours pe	11.388	hours
1	Cargo Apro	Lighting	Dump Truc	Diesel	1356.00	LF	8 Hours pe	9.04	hours
1	Cargo Apro	Lighting	Loader	Diesel	1356.00	LF	8 Hours pe	9.04	hours
1	Cargo Apro	Lighting	Other Gen	Diesel	1356.00	LF	8 Hours pe	9.04	hours
1	Cargo Apro	Lighting	Pickup Truc	Diesel	1356.00	LF	8 Hours pe	9.04	hours
1	Cargo Apro	Lighting	Skid Steer l	Diesel	1356.00	LF	8 Hours pe	9.04	hours
1	Cargo Apro	Lighting	Tractors/Lc	Diesel	1356.00	LF	8 Hours pe	9.04	hours
1	Cargo Apro	Markings	Flatbed Tru	Diesel	107000.00		8 Hours pe	244.5714	hours
1	Cargo Apro	Markings	Other Gen	Diesel	107000.00		8 Hours pe	244.5714	hours
1	Cargo Apro	Markings	Pickup Truc	Diesel	107000.00		8 Hours pe	244.5714	hours
1	Cargo Apro	Sealing/Fu	Distributin	Diesel	11877.00	S	8 Hours pe	31.672	hours
1	Cargo Apro	Sealing/Fu	Other Gen	Diesel	11877.00	S	8 Hours pe	31.672	hours
1	Cargo Apro	Sealing/Fu	Pickup Truc	Diesel	11877.00	S	8 Hours pe	31.672	hours
1	Cargo Apro	Soil Erosior	Other Gen	Diesel	2.60	Acre	4 Hours pe	10.4	hours
1	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	2.60	Acre	8 Hours pe	20.8	hours
1	Cargo Apro	Soil Erosior	Pumps	Diesel	2.60	Acre	4 Hours pe	10.4	hours
1	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	2.60	Acre	4 Hours pe	10.4	hours
1	Cargo Apro	Subbase Pl	Dozer	Diesel	11877.00	S	8 Hours pe	25.00421	hours
1	Cargo Apro	Subbase Pl	Dump Truc	Diesel	3959.00	CY	8 Hours pe	175.9556	hours
1	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	11877.00	S	8 Hours pe	25.00421	hours
1	Cargo Apro	Subbase Pl	Roller	Diesel	3959.00	CY	8 Hours pe	24.36308	hours
1	Cargo Apro	Topsoil Pla	Dozer	Diesel	2106.80	CY	8 Hours pe	28.09067	hours
1	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	2106.80	CY	8 Hours pe	28.09067	hours
1	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	2106.80	CY	8 Hours pe	28.09067	hours
1	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	16150.50	S	8 Hours pe	20.18813	hours
1	Parking Lot	Asphalt Pla	Dump Truc	Diesel	16150.50	S	8 Hours pe	72.70906	hours
1	Parking Lot	Asphalt Pla	Other Gen	Diesel	16150.50	S	16 Hours p	40.37625	hours
1	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	16150.50	S	8 Hours pe	20.18813	hours
1	Parking Lot	Asphalt Pla	Roller	Diesel	16150.50	S	8 Hours pe	20.18813	hours
1	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	16150.50	S	8 Hours pe	20.18813	hours
1	Parking Lot	Asphalt Pla	Surfacing E	Diesel	16150.50	S	8 Hours pe	25.8408	hours
1	Parking Lot	Clearing an	Chain Saw	Diesel	3.60	Acre	12 Hours p	43.2	hours
1	Parking Lot	Clearing an	Chipper/St	Diesel	3.60	Acre	12 Hours p	43.2	hours
1	Parking Lot	Clearing an	Pickup Truc	Diesel	3.60	Acre	16 Hours p	57.6	hours
1	Parking Lot	Curbing	Concrete T	Diesel	970.00	LF	8 Hours pe	19.4	hours
1	Parking Lot	Curbing	Curb/Gutte	Diesel	970.00	LF	8 Hours pe	19.4	hours
1	Parking Lot	Curbing	Other Gen	Diesel	970.00	LF	8 Hours pe	19.4	hours
1	Parking Lot	Curbing	Pickup Truc	Diesel	970.00	LF	8 Hours pe	19.4	hours
1	Parking Lot	Drainage -	Dozer	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Dump Truc	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Excavator	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Loader	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Other Gen	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Pickup Truc	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Roller	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Dump Truc	Diesel	5880.00	LF	8 Hours pe	52.26667	hours
1	Parking Lot	Drainage -	Loader	Diesel	5880.00	LF	8 Hours pe	52.26667	hours
1	Parking Lot	Drainage -	Other Gen	Diesel	5880.00	LF	8 Hours pe	52.26667	hours
1	Parking Lot	Drainage -	Pickup Truc	Diesel	5880.00	LF	8 Hours pe	52.26667	hours
1	Parking Lot	Drainage -	Tractors/Lc	Diesel	5880.00	LF	8 Hours pe	52.26667	hours
1	Parking Lot	Excavation	Dozer	Diesel	6729.40	CY	8 Hours pe	89.72533	hours
1	Parking Lot	Excavation	Dump Truc	Diesel	6729.40	CY	8 Hours pe	89.72533	hours
1	Parking Lot	Excavation	Pickup Truc	Diesel	6729.40	CY	8 Hours pe	89.72533	hours
1	Parking Lot	Excavation	Roller	Diesel	6729.40	CY	8 Hours pe	41.41169	hours
1	Parking Lot	Excavation	Dozer	Diesel	6729.40	CY	8 Hours pe	67.294	hours
1	Parking Lot	Excavation	Dump Truc	Diesel	6729.40	CY	8 Hours pe	179.4507	hours
1	Parking Lot	Excavation	Excavator	Diesel	6729.40	CY	8 Hours pe	53.8352	hours
1	Parking Lot	Excavation	Pickup Truc	Diesel	6729.40	CY	8 Hours pe	53.8352	hours
1	Parking Lot	Excavation	Roller	Diesel	6729.40	CY	8 Hours pe	53.8352	hours
1	Parking Lot	Excavation	Scraper	Diesel	6729.40	CY	8 Hours pe	67.294	hours
1	Parking Lot	Excavation	Dozer	Diesel	16150.50	S	8 Hours pe	25.33412	hours
1	Parking Lot	Fencing	Concrete T	Diesel	970.00	LF	2 Hours pe	10.77778	hours
1	Parking Lot	Fencing	Dump Truc	Diesel	970.00	LF	8 Hours pe	43.11111	hours
1	Parking Lot	Fencing	Other Gen	Diesel	970.00	LF	8 Hours pe	43.11111	hours
1	Parking Lot	Fencing	Pickup Truc	Diesel	970.00	LF	8 Hours pe	43.11111	hours
1	Parking Lot	Fencing	Skid Steer l	Diesel	970.00	LF	8 Hours pe	43.11111	hours
1	Parking Lot	Fencing	Tractors/Lc	Diesel	970.00	LF	8 Hours pe	43.11111	hours
1	Parking Lot	Grading	Dozer	Diesel	17404.80	S	8 Hours pe	17.4048	hours
1	Parking Lot	Grading	Grader	Diesel	17404.80	S	8 Hours pe	17.4048	hours
1	Parking Lot	Grading	Roller	Diesel	17404.80	S	8 Hours pe	17.4048	hours
1	Parking Lot	Hydroseed	Hydroseed	Diesel	156800.00		8 Hours pe	15.68	hours
1	Parking Lot	Hydroseed	Off-Road T	Diesel	156800.00		8 Hours pe	15.68	hours
1	Parking Lot	Markings	Flatbed Tru	Diesel	2240.00	SF	8 Hours pe	5.12	hours
1	Parking Lot	Markings	Other Gen	Diesel	2240.00	SF	8 Hours pe	5.12	hours
1	Parking Lot	Markings	Pickup Truc	Diesel	2240.00	SF	8 Hours pe	5.12	hours
1	Parking Lot	Sidewalks	Concrete T	Diesel	2910.00	SF	8 Hours pe	38.8	hours
1	Parking Lot	Sidewalks	Dump Truc	Diesel	2910.00	SF	8 Hours pe	38.8	hours
1	Parking Lot	Sidewalks	Pickup Truc	Diesel	2910.00	SF	8 Hours pe	38.8	hours
1	Parking Lot	Sidewalks	Tractors/Lc	Diesel	2910.00	SF	8 Hours pe	38.8	hours
1	Parking Lot	Sidewalks	Vibratory C	Diesel	2910.00	SF	8 Hours pe	38.8	hours
1	Parking Lot	Soil Erosior	Other Gen	Diesel	3.60	Acre	4 Hours pe	14.4	hours
1	Parking Lot	Soil Erosior	Pickup Truc	Diesel	3.60	Acre	8 Hours pe	28.8	hours
1	Parking Lot	Soil Erosior	Pumps	Diesel	3.60	Acre	4 Hours pe	14.4	hours
1	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	3.60	Acre	4 Hours pe	14.4	hours
1	Parking Lot	Street Ligh	Dump Truc	Diesel	3.60	Lights	8 Hours pe	9.6	hours
1	Parking Lot	Street Ligh	Loader	Diesel	3.60	Lights	8 Hours pe	9.6	hours
1	Parking Lot	Street Ligh	Other Gen	Diesel	3.60	Lights	8 Hours pe	9.6	hours
1	Parking Lot	Street Ligh	Pickup Truc	Diesel	3.60	Lights	8 Hours pe	9.6	hours
1	Parking Lot	Street Ligh	Skid Steer l	Diesel	3.60	Lights	8 Hours pe	9.6	hours
1	Parking Lot	Street Ligh	Tractors/Lc	Diesel	3.60	Lights	8 Hours pe	9.6	hours
1	Parking Lot	Subbase Pl	Dozer	Diesel	16150.50	S	8 Hours pe	34.00105	hours
1	Parking Lot	Subbase Pl	Dump Truc	Diesel	5383.50	CY	8 Hours pe	239.2667	hours
1	Parking Lot	Subbase Pl	Pickup Truc	Diesel	16150.50	S	8 Hours pe	34.00105	hours
1	Parking Lot	Subbase Pl	Roller	Diesel	5383.50	CY	8 Hours pe	33.12923	hours
1	Parking Lot	Topsoil Pla	Dozer	Diesel	2900.80	CY	8 Hours pe	38.67733	hours
1	Parking Lot	Topsoil Pla	Dump Truc	Diesel	2900.80	CY	8 Hours pe	38.67733	hours
1	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	2900.80	CY	8 Hours pe	38.67733	hours
1	Parking Lot	Tree Planti	Flatbed Tru	Diesel	0.00	Trees	8 Hours pe	0	hours
1	Parking Lot	Tree Planti	Other Gen	Diesel	0.00	Trees	8 Hours pe	0	hours
1	Parking Lot	Tree Planti	Pickup Truc	Diesel	0.00	Trees	8 Hours pe	0	hours
1	Parking Lot	Tree Planti	Tractors/Lc	Diesel	0.00	Trees	8 Hours pe	0	hours
1	Rehabilitat	Asphalt Pla	Asphalt Pa	Diesel	101981.30		8 Hours pe	127.4766	hours
1	Rehabilitat	Asphalt Pla	Dump Truc	Diesel	101981.30		8 Hours pe	459.1167	hours
1	Rehabilitat	Asphalt Pla	Other Gen	Diesel	101981.30		16 Hours p	254.9533	hours
1	Rehabilitat	Asphalt Pla	Pickup Truc	Diesel	101981.30		8 Hours pe	127.4766	hours
1	Rehabilitat	Asphalt Pla	Roller	Diesel	101981.30		8 Hours pe	127.4766	hours
1	Rehabilitat	Asphalt Pla	Skid Steer l	Diesel	101981.30		8 Hours pe	127.4766	hours
1	Rehabilitat	Asphalt Pla	Surfacing E	Diesel	101981.30		8 Hours pe	163.1701	hours
1	Rehabilitat	Cold Millin	Cold Plane	Diesel	101981.30		8 Hours pe	203.9626	hours
1	Rehabilitat	Cold Millin	Dump Truc	Diesel	101981.30		8 Hours pe	203.9626	hours
1	Rehabilitat	Cold Millin	Pickup Truc	Diesel	101981.30		8 Hours pe	203.9626	hours
1	Rehabilitat	Cold Millin	Sweepers	Diesel	101981.30		8 Hours pe	203.9626	hours
1	Rehabilitat	Cold Millin	Water Truc	Diesel	101981.30		8 Hours pe	203.9626	hours
1	Rehabilitat	Dust Contr	Water Truc	Diesel	60.00	Day	8 Hours pe	480	hours
1	Rehabilitat	Excavation	Dozer	Diesel	8498.40	CY	8 Hours pe	67.9872	hours
1	Rehabilitat	Excavation	Dump Truc	Diesel	8498.40	CY	8 Hours pe	226.624	hours
1	Rehabilitat	Excavation	Excavator	Diesel	8498.40	CY	8 Hours pe	67.9872	hours
1	Rehabilitat	Excavation	Pickup Truc	Diesel	8498.40	CY	8 Hours pe	67.9872	hours
1	Rehabilitat	Excavation	Roller	Diesel	8498.40	CY	8 Hours pe	67.9872	hours
1	Rehabilitat	Excavation	Dozer	Diesel	20396.30	S	8 Hours pe	31.9942	hours
1	Rehabilitat	Grading	Dozer	Diesel	21269.80	S	8 Hours pe	21.2698	hours
1	Rehabilitat	Grading	Grader	Diesel	21269.80	S	8 Hours pe	21.2698	hours
1	Rehabilitat	Grading	Roller	Diesel	21269.80	S	8 Hours pe	21.2698	hours
1	Rehabilitat	Hydroseed	Hydroseed	Diesel	21269.80	S	8 Hours pe	2.12698	hours
1	Rehabilitat	Hydroseed	Off-Road T	Diesel	21269.80	S	8 Hours pe	2.12698	hours
1	Rehabilitat	Lighting	Dump Truc	Diesel	7850.00	LF	8 Hours pe	52.33333	hours
1	Rehabilitat	Lighting	Loader	Diesel	7850.00	LF	8 Hours pe	52.33333	hours
1	Rehabilitat	Lighting	Other Gen	Diesel	7850.00	LF	8 Hours pe	52.33333	hours
1	Rehabilitat	Lighting	Pickup Truc	Diesel	7850.00	LF	8 Hours pe	52.33333	hours
1	Rehabilitat	Lighting	Skid Steer l	Diesel	7850.00	LF	8 Hours pe	52.33333	hours
1	Rehabilitat	Lighting	Tractors/Lc	Diesel	7850.00	LF	8 Hours pe	52.33333	hours
1	Rehabilitat	Markings	Flatbed Tru	Diesel	918750.00		8 Hours pe	2100	hours
1	Rehabilitat	Markings	Other Gen	Diesel	918750.00		8 Hours pe	2100	hours
1	Rehabilitat	Markings	Pickup Truc	Diesel	918750.00		8 Hours pe	2100	hours
1	Rehabilitat	Sealing Rar	Crack Clear	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Sealing Rar	Crack Filler	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Sealing Rar	Flatbed Tru	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Sealing Rar	Other Gen	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Sealing Rar	Pickup Truc	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Soil Erosior	Other Gen	Diesel	4.40	Acre	4 Hours pe	17.6	hours
1	Rehabilitat	Soil Erosior	Pickup Truc	Diesel	4.40	Acre	8 Hours pe	35.2	hours
1	Rehabilitat	Soil Erosior	Pumps	Diesel	4.40	Acre	4 Hours pe	17.6	hours
1	Rehabilitat	Soil Erosior	Tractors/Lc	Diesel	4.40	Acre	4 Hours pe	17.6	hours
1	Rehabilitat	Subbase Pl	Dozer	Diesel	101981.30		8 Hours pe	214.6975	hours
1	Rehabilitat	Subbase Pl	Dump Truc	Diesel	33993.80	C	8 Hours pe	1510.836	hours
1	Rehabilitat	Subbase Pl	Pickup Truc	Diesel	101981.30		8 Hours pe	214.6975	hours

ACEIT Input - Default Asphalt Application Rates

1	Rehabilitat	Subbase Pl	Roller	Diesel	33993.80	C	8 Hours pe	209.1926	hours
1	Rehabilitat	Topsoil Pla	Dozer	Diesel	3545.00	CY	8 Hours pe	47.26667	hours
1	Rehabilitat	Topsoil Pla	Dump Truc	Diesel	3545.00	CY	8 Hours pe	47.26667	hours
1	Rehabilitat	Topsoil Pla	Pickup Tru	Diesel	3545.00	CY	8 Hours pe	47.26667	hours
2	Building - 1	Concrete F	Backhoe	Diesel	100000.00		0.0048 Hou	480	hours
2	Building - 1	Concrete F	Concrete P	Diesel	100000.00		0.0018 Hou	180	hours
2	Building - 1	Concrete F	Concrete R	Diesel	100000.00		0.0036 Hou	360	hours
2	Building - 1	Concrete F	Excavator	Diesel	100000.00		0.0016 Hou	160	hours
2	Building - 1	Concrete F	Fork Truck	Diesel	100000.00		0.0048 Hou	480	hours
2	Building - 1	Concrete F	Tool Truck	Diesel	100000.00		0.0012 Hou	120	hours
2	Building - 1	Concrete F	Tractor Tra	Diesel	100000.00		0.0024 Hou	240	hours
2	Building - 1	Constructic	Survey Cre	Diesel	100000.00		0.0001 Hou	10	hours
2	Building - 1	Constructic	Tractor Tra	Diesel	100000.00		0.00004 Ho	4	hours
2	Building - 1	Exterior W	Fork Truck	Diesel	100000.00		0.0084 Hou	840	hours
2	Building - 1	Exterior W	Generator	Diesel	100000.00		0.0008 Hou	80	hours
2	Building - 1	Exterior W	Grout Mixe	Diesel	100000.00		0.0042 Hou	420	hours
2	Building - 1	Exterior W	Grout Whe	Diesel	100000.00		0.0016 Hou	160	hours
2	Building - 1	Exterior W	Man Lift	Diesel	100000.00		0.0168 Hou	1680	hours
2	Building - 1	Exterior W	Tool Truck	Diesel	100000.00		0.0042 Hou	420	hours
2	Building - 1	Exterior W	Tractor Tra	Diesel	100000.00		0.0084 Hou	840	hours
2	Building - 1	Exterior W	Truck Towe	Diesel	100000.00		0.0008 Hou	80	hours
2	Building - 1	Interior Bu	Fork Truck	Diesel	100000.00		0.016 Hour	1600	hours
2	Building - 1	Interior Bu	Man Lift	Diesel	100000.00		0.032 Hour	3200	hours
2	Building - 1	Interior Bu	Tool Truck	Diesel	100000.00		0.016 Hour	1600	hours
2	Building - 1	Interior Bu	Tractor Tra	Diesel	100000.00		0.016 Hour	1600	hours
2	Building - 1	Roofing	High Lift	Diesel	100000.00		0.0016 Hou	160	hours
2	Building - 1	Roofing	Man Lift	Diesel	100000.00		0.0004 Hou	40	hours
2	Building - 1	Roofing	Material De	Diesel	100000.00		0.0006 Hou	60	hours
2	Building - 1	Roofing	Tractor Tra	Diesel	100000.00		0.0004 Hou	40	hours
2	Building - 1	Roofing	Truck Towe	Diesel	100000.00		0.0012 Hou	120	hours
2	Building - 1	Security &	High Lift	Diesel	100000.00		0.008 Hour	800	hours
2	Building - 1	Security &	Tool Truck	Diesel	100000.00		0.008 Hour	800	hours
2	Building - 1	Structural S	90 Ton Cra	Diesel	100000.00		0.0024 Hou	240	hours
2	Building - 1	Structural S	Concrete P	Diesel	100000.00		0.0006 Hou	60	hours
2	Building - 1	Structural S	Concrete T	Diesel	100000.00		0.0006 Hou	60	hours
2	Building - 1	Structural S	Fork Truck	Diesel	100000.00		0.0064 Hou	640	hours
2	Building - 1	Structural S	Tool Truck	Diesel	100000.00		0.0016 Hou	160	hours
2	Building - 1	Structural S	Tractor Tra	Diesel	100000.00		0.0036 Hou	360	hours
2	Building - 1	Structural S	Trowel Ma	Diesel	100000.00		0.0004 Hou	40	hours
2	Building - 1	Structural S	Truck Towe	Diesel	100000.00		0.0072 Hou	720	hours
2	Cargo Aprc	Clearing an	Chain Saw	Diesel	3.90	Acre	12 Hours p	46.8	hours
2	Cargo Aprc	Clearing an	Chipper/St	Diesel	3.90	Acre	12 Hours p	46.8	hours
2	Cargo Aprc	Clearing an	Pickup Tru	Diesel	3.90	Acre	16 Hours p	62.4	hours
2	Cargo Aprc	Concrete P	Air Compre	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Concrete P	Concrete S	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Concrete P	Concrete T	Diesel	7423.10	CY	8 Hours pe	247.4367	hours
2	Cargo Aprc	Concrete P	Other Gen	Diesel	7423.10	CY	16 Hours p	118.7696	hours
2	Cargo Aprc	Concrete P	Pickup Tru	Diesel	7423.10	CY	24 Hours p	178.1544	hours
2	Cargo Aprc	Concrete P	Rubber Tir	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Concrete P	Slip Form P	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Concrete P	Surfacing E	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Drainage -	Dozer	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Dump Truc	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Excavator	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Loader	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Other Gen	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Pickup Tru	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Roller	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Dump Truc	Diesel	1304.00	LF	8 Hours pe	11.59111	hours
2	Cargo Aprc	Drainage -	Loader	Diesel	1304.00	LF	8 Hours pe	11.59111	hours
2	Cargo Aprc	Drainage -	Other Gen	Diesel	1304.00	LF	8 Hours pe	11.59111	hours
2	Cargo Aprc	Drainage -	Pickup Tru	Diesel	1304.00	LF	8 Hours pe	11.59111	hours
2	Cargo Aprc	Drainage -	Tractors/Lc	Diesel	1304.00	LF	8 Hours pe	11.59111	hours
2	Cargo Aprc	Dust Contr	Water Truc	Diesel	90.00	Day	8 Hours pe	720	hours
2	Cargo Aprc	Excavation	Dozer	Diesel	7423.10	CY	8 Hours pe	98.97467	hours
2	Cargo Aprc	Excavation	Dump Truc	Diesel	7423.10	CY	8 Hours pe	98.97467	hours
2	Cargo Aprc	Excavation	Pickup Tru	Diesel	7423.10	CY	8 Hours pe	98.97467	hours
2	Cargo Aprc	Excavation	Roller	Diesel	7423.10	CY	8 Hours pe	45.68062	hours
2	Cargo Aprc	Excavation	Dozer	Diesel	7423.10	CY	8 Hours pe	74.231	hours
2	Cargo Aprc	Excavation	Dump Truc	Diesel	7423.10	CY	8 Hours pe	197.9493	hours
2	Cargo Aprc	Excavation	Excavator	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Excavation	Pickup Tru	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Excavation	Roller	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Excavation	Scraper	Diesel	7423.10	CY	8 Hours pe	74.231	hours
2	Cargo Aprc	Excavation	Dozer	Diesel	17815.50	S	8 Hours pe	27.94588	hours
2	Cargo Aprc	Fencing	Concrete T	Diesel	642.00	LF	2 Hours pe	7.133333	hours
2	Cargo Aprc	Fencing	Dump Truc	Diesel	642.00	LF	8 Hours pe	28.53333	hours
2	Cargo Aprc	Fencing	Other Gen	Diesel	642.00	LF	8 Hours pe	28.53333	hours
2	Cargo Aprc	Fencing	Pickup Tru	Diesel	642.00	LF	8 Hours pe	28.53333	hours
2	Cargo Aprc	Fencing	Skid Steer l	Diesel	642.00	LF	8 Hours pe	28.53333	hours
2	Cargo Aprc	Fencing	Tractors/Lc	Diesel	642.00	LF	8 Hours pe	28.53333	hours
2	Cargo Aprc	Grading	Dozer	Diesel	18816.70	S	8 Hours pe	18.8167	hours
2	Cargo Aprc	Grading	Grader	Diesel	18816.70	S	8 Hours pe	18.8167	hours
2	Cargo Aprc	Grading	Roller	Diesel	18816.70	S	8 Hours pe	18.8167	hours
2	Cargo Aprc	Hydroseed	Hydroseed	Diesel	169520.00		8 Hours pe	16.952	hours
2	Cargo Aprc	Hydroseed	Off-Road T	Diesel	169520.00		8 Hours pe	16.952	hours
2	Cargo Aprc	Lighting	Dump Truc	Diesel	1784.00	LF	8 Hours pe	11.89333	hours
2	Cargo Aprc	Lighting	Loader	Diesel	1784.00	LF	8 Hours pe	11.89333	hours
2	Cargo Aprc	Lighting	Other Gen	Diesel	1784.00	LF	8 Hours pe	11.89333	hours
2	Cargo Aprc	Lighting	Pickup Tru	Diesel	1784.00	LF	8 Hours pe	11.89333	hours
2	Cargo Aprc	Lighting	Skid Steer l	Diesel	1784.00	LF	8 Hours pe	11.89333	hours
2	Cargo Aprc	Lighting	Tractors/Lc	Diesel	1784.00	LF	8 Hours pe	11.89333	hours
2	Cargo Aprc	Markings	Flatbed Tru	Diesel	160500.00		8 Hours pe	366.8571	hours
2	Cargo Aprc	Markings	Other Gen	Diesel	160500.00		8 Hours pe	366.8571	hours
2	Cargo Aprc	Markings	Pickup Tru	Diesel	160500.00		8 Hours pe	366.8571	hours
2	Cargo Aprc	Sealing/Fu	Distributin	Diesel	17815.50	S	8 Hours pe	47.508	hours
2	Cargo Aprc	Sealing/Fu	Other Gen	Diesel	17815.50	S	8 Hours pe	47.508	hours
2	Cargo Aprc	Sealing/Fu	Pickup Tru	Diesel	17815.50	S	8 Hours pe	47.508	hours
2	Cargo Aprc	Soil Erosior	Other Gen	Diesel	3.90	Acre	4 Hours pe	15.6	hours
2	Cargo Aprc	Soil Erosior	Pickup Tru	Diesel	3.90	Acre	8 Hours pe	31.2	hours
2	Cargo Aprc	Soil Erosior	Pumps	Diesel	3.90	Acre	4 Hours pe	15.6	hours
2	Cargo Aprc	Soil Erosior	Tractors/Lc	Diesel	3.90	Acre	4 Hours pe	15.6	hours
2	Cargo Aprc	Subbase Pl	Dozer	Diesel	17815.50	S	8 Hours pe	37.50632	hours
2	Cargo Aprc	Subbase Pl	Dump Truc	Diesel	5938.50	CY	8 Hours pe	263.9333	hours
2	Cargo Aprc	Subbase Pl	Pickup Tru	Diesel	17815.50	S	8 Hours pe	37.50632	hours
2	Cargo Aprc	Subbase Pl	Roller	Diesel	5938.50	CY	8 Hours pe	36.54462	hours
2	Cargo Aprc	Topsoil Pla	Dozer	Diesel	3136.10	CY	8 Hours pe	41.81467	hours
2	Cargo Aprc	Topsoil Pla	Dump Truc	Diesel	3136.10	CY	8 Hours pe	41.81467	hours
2	Cargo Aprc	Topsoil Pla	Pickup Tru	Diesel	3136.10	CY	8 Hours pe	41.81467	hours
2	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	24225.80	S	8 Hours pe	30.28225	hours
2	Parking Lot	Asphalt Pla	Dump Truc	Diesel	24225.80	S	8 Hours pe	109.0638	hours
2	Parking Lot	Asphalt Pla	Other Gen	Diesel	24225.80	S	16 Hours p	60.5645	hours
2	Parking Lot	Asphalt Pla	Pickup Tru	Diesel	24225.80	S	8 Hours pe	30.28225	hours
2	Parking Lot	Asphalt Pla	Roller	Diesel	24225.80	S	8 Hours pe	30.28225	hours
2	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	24225.80	S	8 Hours pe	30.28225	hours
2	Parking Lot	Asphalt Pla	Surfacing E	Diesel	24225.80	S	8 Hours pe	38.76128	hours
2	Parking Lot	Clearing an	Chain Saw	Diesel	5.40	Acre	12 Hours p	64.8	hours
2	Parking Lot	Clearing an	Chipper/St	Diesel	5.40	Acre	12 Hours p	64.8	hours
2	Parking Lot	Clearing an	Pickup Tru	Diesel	5.40	Acre	16 Hours p	86.4	hours
2	Parking Lot	Curbing	Concrete T	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Curbing	Curb/Gutte	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Curbing	Other Gen	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Curbing	Pickup Tru	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Drainage -	Dozer	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Dump Truc	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Excavator	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Loader	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Other Gen	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Pickup Tru	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Roller	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Dump Truc	Diesel	8790.00	LF	8 Hours pe	78.13333	hours
2	Parking Lot	Drainage -	Loader	Diesel	8790.00	LF	8 Hours pe	78.13333	hours
2	Parking Lot	Drainage -	Other Gen	Diesel	8790.00	LF	8 Hours pe	78.13333	hours
2	Parking Lot	Drainage -	Pickup Tru	Diesel	8790.00	LF	8 Hours pe	78.13333	hours
2	Parking Lot	Drainage -	Tractors/Lc	Diesel	8790.00	LF	8 Hours pe	78.13333	hours
2	Parking Lot	Excavation	Dozer	Diesel	10094.10	C	8 Hours pe	134.588	hours
2	Parking Lot	Excavation	Dump Truc	Diesel	10094.10	C	8 Hours pe	134.588	hours
2	Parking Lot	Excavation	Pickup Tru	Diesel	10094.10	C	8 Hours pe	134.588	hours
2	Parking Lot	Excavation	Roller	Diesel	10094.10	C	8 Hours pe	62.11754	hours
2	Parking Lot	Excavation	Dozer	Diesel	10094.10	C	8 Hours pe	100.941	hours
2	Parking Lot	Excavation	Dump Truc	Diesel	10094.10	C	8 Hours pe	269.176	hours
2	Parking Lot	Excavation	Excavator	Diesel	10094.10	C	8 Hours pe	80.7528	hours
2	Parking Lot	Excavation	Pickup Tru	Diesel	10094.10	C	8 Hours pe	80.7528	hours
2	Parking Lot	Excavation	Roller	Diesel	10094.10	C	8 Hours pe	80.7528	hours
2	Parking Lot	Excavation	Scraper	Diesel	10094.10	C	8 Hours pe	100.941	hours
2	Parking Lot	Excavation	Dozer	Diesel	24225.80	S	8 Hours pe	38.00125	hours
2	Parking Lot	Fencing	Concrete T	Diesel	1455.00	LF	2 Hours pe	16.16667	hours
2	Parking Lot	Fencing	Dump Truc	Diesel	1455.00	LF	8 Hours pe	64.66667	hours
2	Parking Lot	Fencing	Other Gen	Diesel	1455.00	LF	8 Hours pe	64.66667	hours
2	Parking Lot	Fencing	Pickup Tru	Diesel	1455.00	LF	8 Hours pe	64.66667	hours
2	Parking Lot	Fencing	Skid Steer l	Diesel	1455.00	LF	8 Hours pe	64.66667	hours
2	Parking Lot	Fencing	Tractors/Lc	Diesel	1455.00	LF	8 Hours pe	64.66667	hours
2	Parking Lot	Grading	Dozer	Diesel	26018.40	S	8 Hours pe	26.0184	hours
2	Parking Lot	Grading	Grader	Diesel	26018.40	S	8 Hours pe	26.0184	hours
2	Parking Lot	Grading	Roller	Diesel	26018.40	S	8 Hours pe	26.0184	hours
2	Parking Lot	Hydroseed	Hydroseed	Diesel	234400.00		8 Hours pe	23.44	hours
2	Parking Lot	Hydroseed	Off-Road T	Diesel	234400.00		8 Hours pe	23.44	hours
2	Parking Lot	Markings	Flatbed Tru	Diesel	3210.00	SF	8 Hours pe	7.337143	hours
2	Parking Lot	Markings	Other Gen	Diesel	3210.00	SF	8 Hours pe	7.337143	hours
2	Parking Lot	Markings	Pickup Tru	Diesel	3210.00	SF	8 Hours pe	7.337143	hours
2	Parking Lot	Sidewalks	Concrete T	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Dump Truc	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Pickup Tru	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Tractors/Lc	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Vibratory C	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Soil Erosior	Other Gen	Diesel	5.40	Acre	4 Hours pe	21.6	hours
2	Parking Lot	Soil Erosior	Pickup Tru	Diesel	5.40	Acre	8 Hours pe	43.2	hours
2	Parking Lot	Soil Erosior	Pumps	Diesel	5.40	Acre	4 Hours pe	21.6	hours
2	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	5.40	Acre	4 Hours pe	21.6	hours
2	Parking Lot	Street Ligh	Dump Truc	Diesel	5.50	Lights	8 Hours pe	14.66667	hours
2	Parking Lot	Street Ligh	Loader	Diesel	5.50	Lights	8 Hours pe	14.66667	hours
2	Parking Lot	Street Ligh	Other Gen	Diesel	5.50	Lights	8 Hours pe	14.66667	hours

ACEIT Input - Default Asphalt Application Rates

2	Parking Lot	Street Ligh	Pickup Truc	Diesel	5.50	Lights	8 Hours pe	14.66667	hours
2	Parking Lot	Street Ligh	Skid Steer l	Diesel	5.50	Lights	8 Hours pe	14.66667	hours
2	Parking Lot	Street Ligh	Tractors/Lc	Diesel	5.50	Lights	8 Hours pe	14.66667	hours
2	Parking Lot	Subbase Pl	Dozer	Diesel	24225.80	S	8 Hours pe	51.00168	hours
2	Parking Lot	Subbase Pl	Dump Truc	Diesel	8075.30	CY	8 Hours pe	358.9022	hours
2	Parking Lot	Subbase Pl	Pickup Truc	Diesel	24225.80	S	8 Hours pe	51.00168	hours
2	Parking Lot	Subbase Pl	Roller	Diesel	8075.30	CY	8 Hours pe	49.69415	hours
2	Parking Lot	Topsoil Pla	Dozer	Diesel	4336.40	CY	8 Hours pe	57.81867	hours
2	Parking Lot	Topsoil Pla	Dump Truc	Diesel	4336.40	CY	8 Hours pe	57.81867	hours
2	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	4336.40	CY	8 Hours pe	57.81867	hours
2	Parking Lot	Tree Planti	Flatbed Tru	Diesel	0.00	Trees	8 Hours pe	0	hours
2	Parking Lot	Tree Planti	Other Gen	Diesel	0.00	Trees	8 Hours pe	0	hours
2	Parking Lot	Tree Planti	Pickup Truc	Diesel	0.00	Trees	8 Hours pe	0	hours
2	Parking Lot	Tree Planti	Tractors/Lc	Diesel	0.00	Trees	8 Hours pe	0	hours
3	Building - 1	Concrete F	Backhoe	Diesel	100000.00		0.0048 Hou	480	hours
3	Building - 1	Concrete F	Concrete P	Diesel	100000.00		0.0018 Hou	180	hours
3	Building - 1	Concrete F	Concrete R	Diesel	100000.00		0.0036 Hou	360	hours
3	Building - 1	Concrete F	Excavator	Diesel	100000.00		0.0016 Hou	160	hours
3	Building - 1	Concrete F	Fork Truck	Diesel	100000.00		0.0048 Hou	480	hours
3	Building - 1	Concrete F	Tool Truck	Diesel	100000.00		0.0012 Hou	120	hours
3	Building - 1	Concrete F	Tractor Tra	Diesel	100000.00		0.0024 Hou	240	hours
3	Building - 1	Constructic	Survey Cre	Diesel	100000.00		0.0001 Hou	10	hours
3	Building - 1	Constructic	Tractor Tra	Diesel	100000.00		0.00004 Ho	4	hours
3	Building - 1	Exterior W	Fork Truck	Diesel	100000.00		0.0084 Hou	840	hours
3	Building - 1	Exterior W	Generator	Diesel	100000.00		0.0008 Hou	80	hours
3	Building - 1	Exterior W	Grout Mixe	Diesel	100000.00		0.0042 Hou	420	hours
3	Building - 1	Exterior W	Grout Whe	Diesel	100000.00		0.0016 Hou	160	hours
3	Building - 1	Exterior W	Man Lift	Diesel	100000.00		0.0168 Hou	1680	hours
3	Building - 1	Exterior W	Tool Truck	Diesel	100000.00		0.0042 Hou	420	hours
3	Building - 1	Exterior W	Tractor Tra	Diesel	100000.00		0.0084 Hou	840	hours
3	Building - 1	Exterior W	Truck Towe	Diesel	100000.00		0.0008 Hou	80	hours
3	Building - 1	Interior Bu	Fork Truck	Diesel	100000.00		0.016 Hour	1600	hours
3	Building - 1	Interior Bu	Man Lift	Diesel	100000.00		0.032 Hour	3200	hours
3	Building - 1	Interior Bu	Tool Truck	Diesel	100000.00		0.016 Hour	1600	hours
3	Building - 1	Interior Bu	Tractor Tra	Diesel	100000.00		0.016 Hour	1600	hours
3	Building - 1	Roofing	High Lift	Diesel	100000.00		0.0016 Hou	160	hours
3	Building - 1	Roofing	Man Lift	Diesel	100000.00		0.0004 Hou	40	hours
3	Building - 1	Roofing	Material De	Diesel	100000.00		0.0006 Hou	60	hours
3	Building - 1	Roofing	Tractor Tra	Diesel	100000.00		0.0004 Hou	40	hours
3	Building - 1	Roofing	Truck Towe	Diesel	100000.00		0.0012 Hou	120	hours
3	Building - 1	Security &	High Lift	Diesel	100000.00		0.008 Hour	800	hours
3	Building - 1	Security &	Tool Truck	Diesel	100000.00		0.008 Hour	800	hours
3	Building - 1	Structural	90 Ton Cra	Diesel	100000.00		0.0024 Hou	240	hours
3	Building - 1	Structural	Concrete P	Diesel	100000.00		0.0006 Hou	60	hours
3	Building - 1	Structural	Concrete T	Diesel	100000.00		0.0006 Hou	60	hours
3	Building - 1	Structural	Fork Truck	Diesel	100000.00		0.0064 Hou	640	hours
3	Building - 1	Structural	Tool Truck	Diesel	100000.00		0.0016 Hou	160	hours
3	Building - 1	Structural	Tractor Tra	Diesel	100000.00		0.0036 Hou	360	hours
3	Building - 1	Structural	Trowel Ma	Diesel	100000.00		0.0004 Hou	40	hours
3	Building - 1	Structural	Truck Towe	Diesel	100000.00		0.0072 Hou	720	hours
3	Cargo Aprc	Clearing an	Chain Saw	Diesel	5.20	Acre	12 Hours p	62.4	hours
3	Cargo Aprc	Clearing an	Chipper/St	Diesel	5.20	Acre	12 Hours p	62.4	hours
3	Cargo Aprc	Clearing an	Pickup Truc	Diesel	5.20	Acre	16 Hours p	83.2	hours
3	Cargo Aprc	Concrete P	Air Compre	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Concrete P	Concrete S	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Concrete P	Concrete T	Diesel	9885.90	CY	8 Hours pe	329.53	hours
3	Cargo Aprc	Concrete P	Other Gen	Diesel	9885.90	CY	16 Hours p	158.1744	hours
3	Cargo Aprc	Concrete P	Pickup Truc	Diesel	9885.90	CY	24 Hours p	237.2616	hours
3	Cargo Aprc	Concrete P	Rubber Tir	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Concrete P	Slip Form P	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Concrete P	Surfacing E	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Drainage -	Dozer	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Dump Truc	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Excavator	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Loader	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Other Gen	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Pickup Truc	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Roller	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Dump Truc	Diesel	1730.00	LF	8 Hours pe	15.37778	hours
3	Cargo Aprc	Drainage -	Loader	Diesel	1730.00	LF	8 Hours pe	15.37778	hours
3	Cargo Aprc	Drainage -	Other Gen	Diesel	1730.00	LF	8 Hours pe	15.37778	hours
3	Cargo Aprc	Drainage -	Pickup Truc	Diesel	1730.00	LF	8 Hours pe	15.37778	hours
3	Cargo Aprc	Drainage -	Tractors/Lc	Diesel	1730.00	LF	8 Hours pe	15.37778	hours
3	Cargo Aprc	Dust Contr	Water Truc	Diesel	180.00	Day	8 Hours pe	1440	hours
3	Cargo Aprc	Excavation	Dozer	Diesel	9885.90	CY	8 Hours pe	131.812	hours
3	Cargo Aprc	Excavation	Dump Truc	Diesel	9885.90	CY	8 Hours pe	131.812	hours
3	Cargo Aprc	Excavation	Pickup Truc	Diesel	9885.90	CY	8 Hours pe	131.812	hours
3	Cargo Aprc	Excavation	Roller	Diesel	9885.90	CY	8 Hours pe	60.83631	hours
3	Cargo Aprc	Excavation	Dozer	Diesel	9885.90	CY	8 Hours pe	98.859	hours
3	Cargo Aprc	Excavation	Dump Truc	Diesel	9885.90	CY	8 Hours pe	263.624	hours
3	Cargo Aprc	Excavation	Excavator	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Excavation	Pickup Truc	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Excavation	Roller	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Excavation	Scraper	Diesel	9885.90	CY	8 Hours pe	98.859	hours
3	Cargo Aprc	Excavation	Dozer	Diesel	23726.30	S	8 Hours pe	37.21773	hours
3	Cargo Aprc	Fencing	Concrete T	Diesel	855.00	LF	2 Hours pe	9.5	hours
3	Cargo Aprc	Fencing	Dump Truc	Diesel	855.00	LF	8 Hours pe	38	hours
3	Cargo Aprc	Fencing	Other Gen	Diesel	855.00	LF	8 Hours pe	38	hours
3	Cargo Aprc	Fencing	Pickup Truc	Diesel	855.00	LF	8 Hours pe	38	hours
3	Cargo Aprc	Fencing	Skid Steer l	Diesel	855.00	LF	8 Hours pe	38	hours
3	Cargo Aprc	Fencing	Tractors/Lc	Diesel	855.00	LF	8 Hours pe	38	hours
3	Cargo Aprc	Grading	Dozer	Diesel	24963.90	S	8 Hours pe	24.9639	hours
3	Cargo Aprc	Grading	Grader	Diesel	24963.90	S	8 Hours pe	24.9639	hours
3	Cargo Aprc	Grading	Roller	Diesel	24963.90	S	8 Hours pe	24.9639	hours
3	Cargo Aprc	Hydroseed	Hydroseed	Diesel	224900.00		8 Hours pe	22.49	hours
3	Cargo Aprc	Hydroseed	Off-Road T	Diesel	224900.00		8 Hours pe	22.49	hours
3	Cargo Aprc	Lighting	Dump Truc	Diesel	2210.00	LF	8 Hours pe	14.73333	hours
3	Cargo Aprc	Lighting	Loader	Diesel	2210.00	LF	8 Hours pe	14.73333	hours
3	Cargo Aprc	Lighting	Other Gen	Diesel	2210.00	LF	8 Hours pe	14.73333	hours
3	Cargo Aprc	Lighting	Pickup Truc	Diesel	2210.00	LF	8 Hours pe	14.73333	hours
3	Cargo Aprc	Lighting	Skid Steer l	Diesel	2210.00	LF	8 Hours pe	14.73333	hours
3	Cargo Aprc	Lighting	Tractors/Lc	Diesel	2210.00	LF	8 Hours pe	14.73333	hours
3	Cargo Aprc	Markings	Flatbed Tru	Diesel	213750.00		8 Hours pe	488.5714	hours
3	Cargo Aprc	Markings	Other Gen	Diesel	213750.00		8 Hours pe	488.5714	hours
3	Cargo Aprc	Markings	Pickup Truc	Diesel	213750.00		8 Hours pe	488.5714	hours
3	Cargo Aprc	Sealing/Fu	Distributing	Diesel	23726.30	S	8 Hours pe	63.27013	hours
3	Cargo Aprc	Sealing/Fu	Other Gen	Diesel	23726.30	S	8 Hours pe	63.27013	hours
3	Cargo Aprc	Sealing/Fu	Pickup Truc	Diesel	23726.30	S	8 Hours pe	63.27013	hours
3	Cargo Aprc	Soil Erosior	Other Gen	Diesel	5.20	Acre	4 Hours pe	20.8	hours
3	Cargo Aprc	Soil Erosior	Pickup Truc	Diesel	5.20	Acre	8 Hours pe	41.6	hours
3	Cargo Aprc	Soil Erosior	Pumps	Diesel	5.20	Acre	4 Hours pe	20.8	hours
3	Cargo Aprc	Soil Erosior	Tractors/Lc	Diesel	5.20	Acre	4 Hours pe	20.8	hours
3	Cargo Aprc	Subbase Pl	Dozer	Diesel	23726.30	S	8 Hours pe	49.95011	hours
3	Cargo Aprc	Subbase Pl	Dump Truc	Diesel	7908.80	CY	8 Hours pe	351.5022	hours
3	Cargo Aprc	Subbase Pl	Pickup Truc	Diesel	23726.30	S	8 Hours pe	49.95011	hours
3	Cargo Aprc	Subbase Pl	Roller	Diesel	7908.80	CY	8 Hours pe	48.66954	hours
3	Cargo Aprc	Topsoil Pla	Dozer	Diesel	4160.70	CY	8 Hours pe	55.476	hours
3	Cargo Aprc	Topsoil Pla	Dump Truc	Diesel	4160.70	CY	8 Hours pe	55.476	hours
3	Cargo Aprc	Topsoil Pla	Pickup Truc	Diesel	4160.70	CY	8 Hours pe	55.476	hours
3	Drainage S	Drainage -	Dozer	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Dump Truc	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Excavator	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Loader	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Other Gen	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Pickup Truc	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Roller	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Dozer	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage -	Dump Truc	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage -	Excavator	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage -	Loader	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage -	Other Gen	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage -	Pickup Truc	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage -	Roller	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage S	Dump Truc	Diesel	1.20	Unit	4 Hours pe	4.8	hours
3	Drainage S	Drainage S	Excavator	Diesel	1.20	Unit	8 Hours pe	4.8	hours
3	Drainage S	Drainage S	Other Gen	Diesel	1.20	Unit	8 Hours pe	9.6	hours
3	Drainage S	Drainage S	Pickup Truc	Diesel	1.20	Unit	8 Hours pe	9.6	hours
3	Drainage S	Hydroseed	Hydroseed	Diesel	12200.00	S	8 Hours pe	1.22	hours
3	Drainage S	Hydroseed	Off-Road T	Diesel	12200.00	S	8 Hours pe	1.22	hours
3	Drainage S	Soil Erosior	Other Gen	Diesel	0.30	Acre	4 Hours pe	1.2	hours
3	Drainage S	Soil Erosior	Pickup Truc	Diesel	0.30	Acre	8 Hours pe	2.4	hours
3	Drainage S	Soil Erosior	Pumps	Diesel	0.30	Acre	4 Hours pe	1.2	hours
3	Drainage S	Soil Erosior	Tractors/Lc	Diesel	0.30	Acre	4 Hours pe	1.2	hours
3	Drainage S	Topsoil Pla	Dozer	Diesel	225.70	CY	8 Hours pe	3.009333	hours
3	Drainage S	Topsoil Pla	Dump Truc	Diesel	225.70	CY	8 Hours pe	3.009333	hours
3	Drainage S	Topsoil Pla	Pickup Truc	Diesel	225.70	CY	8 Hours pe	3.009333	hours
3	Fuel Tanks	Clearing an	Chain Saw	Diesel	1.10	Acre	12 Hours p	13.2	hours
3	Fuel Tanks	Clearing an	Chipper/St	Diesel	1.10	Acre	12 Hours p	13.2	hours
3	Fuel Tanks	Clearing an	Pickup Truc	Diesel	1.10	Acre	16 Hours p	17.6	hours
3	Fuel Tanks	Concrete P	Air Compre	Diesel	1919.40	CY	8 Hours pe	15.3552	hours
3	Fuel Tanks	Concrete P	Concrete S	Diesel	1919.40	CY	8 Hours pe	15.3552	hours
3	Fuel Tanks	Concrete P	Concrete T	Diesel	1919.40	CY	8 Hours pe	63.98	hours
3	Fuel Tanks	Concrete P	Other Gen	Diesel	1919.40	CY	16 Hours p	30.7104	hours
3	Fuel Tanks	Concrete P	Pickup Truc	Diesel	1919.40	CY	24 Hours p	46.0656	hours
3	Fuel Tanks	Concrete P	Rubber Tir	Diesel	1919.40	CY	8 Hours pe	15.3552	hours
3	Fuel Tanks	Concrete P	Slip Form P	Diesel	1919.40	CY	8 Hours pe	15.3552	hours
3	Fuel Tanks	Concrete P	Surfacing E	Diesel	1919.40	CY	8 Hours pe	15.3552	hours
3	Fuel Tanks	Constructic	Crane	Diesel	5.00	Tank	3 Hours pe	15	hours
3	Fuel Tanks	Constructic	Other Gen	Diesel	5.00	Tank	8 Hours pe	40	hours
3	Fuel Tanks	Constructic	Pickup Truc	Diesel	5.00	Tank	8 Hours pe	40	hours
3	Fuel Tanks	Drainage -	Excavator	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Drainage	Dozer	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Drainage	Dump Truc	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Drainage	Loader	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Drainage	Other Gen	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Drainage	Pickup Truc	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Drainage	Roller	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Dust Contr	Water Truc	Diesel	180.00	Day	8 Hours pe	1440	hours
3	Fuel Tanks	Excavation	Dozer	Diesel	6142.00	CY	8 Hours pe	81.89333	hours
3	Fuel Tanks	Excavation	Dump Truc	Diesel	6142.00	CY	8 Hours pe	81.89333	hours
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	6142.00	CY	8 Hours pe	81.89333	hours
3	Fuel Tanks	Excavation	Roller	Diesel	6142.00	CY	8 Hours pe	37.79692	hours

ACEIT Input - Default Asphalt Application Rates

3	Fuel Tanks	Excavation	Dozer	Diesel	6142.00	CY	8 Hours pe	61.42	hours
3	Fuel Tanks	Excavation	Dump Truc	Diesel	6142.00	CY	8 Hours pe	163.7867	hours
3	Fuel Tanks	Excavation	Excavator	Diesel	6142.00	CY	8 Hours pe	49.136	hours
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	6142.00	CY	8 Hours pe	49.136	hours
3	Fuel Tanks	Excavation	Roller	Diesel	6142.00	CY	8 Hours pe	49.136	hours
3	Fuel Tanks	Excavation	Scraper	Diesel	6142.00	CY	8 Hours pe	61.42	hours
3	Fuel Tanks	Excavation	Dozer	Diesel	4606.50	SY	8 Hours pe	7.225882	hours
3	Fuel Tanks	Fencing	Concrete T	Diesel	415.00	LF	2 Hours pe	4.611111	hours
3	Fuel Tanks	Fencing	Dump Truc	Diesel	415.00	LF	8 Hours pe	18.44444	hours
3	Fuel Tanks	Fencing	Other Gen	Diesel	415.00	LF	8 Hours pe	18.44444	hours
3	Fuel Tanks	Fencing	Pickup Truc	Diesel	415.00	LF	8 Hours pe	18.44444	hours
3	Fuel Tanks	Fencing	Skid Steer l	Diesel	415.00	LF	8 Hours pe	18.44444	hours
3	Fuel Tanks	Fencing	Tractors/Lc	Diesel	415.00	LF	8 Hours pe	18.44444	hours
3	Fuel Tanks	Grading	Dozer	Diesel	5189.30	SY	8 Hours pe	5.1893	hours
3	Fuel Tanks	Grading	Grader	Diesel	5189.30	SY	8 Hours pe	5.1893	hours
3	Fuel Tanks	Grading	Roller	Diesel	5189.30	SY	8 Hours pe	5.1893	hours
3	Fuel Tanks	Hydroseed	Hydroseed	Diesel	46750.00	S	8 Hours pe	4.675	hours
3	Fuel Tanks	Hydroseed	Off-Road T	Diesel	46750.00	S	8 Hours pe	4.675	hours
3	Fuel Tanks	Markings	Flatbed Tru	Diesel	41500.00	S	8 Hours pe	94.85714	hours
3	Fuel Tanks	Markings	Other Gen	Diesel	41500.00	S	8 Hours pe	94.85714	hours
3	Fuel Tanks	Markings	Pickup Truc	Diesel	41500.00	S	8 Hours pe	94.85714	hours
3	Fuel Tanks	Soil Erosior	Other Gen	Diesel	1.10	Acre	4 Hours pe	4.4	hours
3	Fuel Tanks	Soil Erosior	Pickup Truc	Diesel	1.10	Acre	8 Hours pe	8.8	hours
3	Fuel Tanks	Soil Erosior	Pumps	Diesel	1.10	Acre	4 Hours pe	4.4	hours
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel	1.10	Acre	4 Hours pe	4.4	hours
3	Fuel Tanks	Street Ligh	Dump Truc	Diesel	1.00	Lights	8 Hours pe	2.666667	hours
3	Fuel Tanks	Street Ligh	Loader	Diesel	1.00	Lights	8 Hours pe	2.666667	hours
3	Fuel Tanks	Street Ligh	Other Gen	Diesel	1.00	Lights	8 Hours pe	2.666667	hours
3	Fuel Tanks	Street Ligh	Pickup Truc	Diesel	1.00	Lights	8 Hours pe	2.666667	hours
3	Fuel Tanks	Street Ligh	Skid Steer l	Diesel	1.00	Lights	8 Hours pe	2.666667	hours
3	Fuel Tanks	Street Ligh	Tractors/Lc	Diesel	1.00	Lights	8 Hours pe	2.666667	hours
3	Fuel Tanks	Subbase Pl	Dozer	Diesel	4606.50	SY	8 Hours pe	9.697895	hours
3	Fuel Tanks	Subbase Pl	Dump Truc	Diesel	1535.50	CY	8 Hours pe	68.24444	hours
3	Fuel Tanks	Subbase Pl	Pickup Truc	Diesel	4606.50	SY	8 Hours pe	9.697895	hours
3	Fuel Tanks	Subbase Pl	Roller	Diesel	1535.50	CY	8 Hours pe	9.449231	hours
3	Fuel Tanks	Topsoil Pla	Dozer	Diesel	1729.80	CY	8 Hours pe	23.064	hours
3	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel	1729.80	CY	8 Hours pe	23.064	hours
3	Fuel Tanks	Topsoil Pla	Pickup Truc	Diesel	1729.80	CY	8 Hours pe	23.064	hours
3	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	40376.30	S	8 Hours pe	50.47038	hours
3	Parking Lot	Asphalt Pla	Dump Truc	Diesel	40376.30	S	8 Hours pe	181.7729	hours
3	Parking Lot	Asphalt Pla	Other Gen	Diesel	40376.30	S	16 Hours p	100.9408	hours
3	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	40376.30	S	8 Hours pe	50.47038	hours
3	Parking Lot	Asphalt Pla	Roller	Diesel	40376.30	S	8 Hours pe	50.47038	hours
3	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	40376.30	S	8 Hours pe	50.47038	hours
3	Parking Lot	Asphalt Pla	Surfacing E	Diesel	40376.30	S	8 Hours pe	64.60208	hours
3	Parking Lot	Clearing an	Chain Saw	Diesel	9.00	Acre	12 Hours p	108	hours
3	Parking Lot	Clearing an	Chipper/St	Diesel	9.00	Acre	12 Hours p	108	hours
3	Parking Lot	Clearing an	Pickup Truc	Diesel	9.00	Acre	16 Hours p	144	hours
3	Parking Lot	Curbing	Concrete T	Diesel	2425.00	LF	8 Hours pe	48.5	hours
3	Parking Lot	Curbing	Curb/Gutte	Diesel	2425.00	LF	8 Hours pe	48.5	hours
3	Parking Lot	Curbing	Other Gen	Diesel	2425.00	LF	8 Hours pe	48.5	hours
3	Parking Lot	Curbing	Pickup Truc	Diesel	2425.00	LF	8 Hours pe	48.5	hours
3	Parking Lot	Drainage -	Dozer	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Dump Truc	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Excavator	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Loader	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Other Gen	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Pickup Truc	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Roller	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Dump Truc	Diesel	14610.00	L	8 Hours pe	129.8667	hours
3	Parking Lot	Drainage -	Loader	Diesel	14610.00	L	8 Hours pe	129.8667	hours
3	Parking Lot	Drainage -	Other Gen	Diesel	14610.00	L	8 Hours pe	129.8667	hours
3	Parking Lot	Drainage -	Pickup Truc	Diesel	14610.00	L	8 Hours pe	129.8667	hours
3	Parking Lot	Drainage -	Tractors/Lc	Diesel	14610.00	L	8 Hours pe	129.8667	hours
3	Parking Lot	Excavation	Dozer	Diesel	16823.40	C	8 Hours pe	224.312	hours
3	Parking Lot	Excavation	Dump Truc	Diesel	16823.40	C	8 Hours pe	224.312	hours
3	Parking Lot	Excavation	Pickup Truc	Diesel	16823.40	C	8 Hours pe	224.312	hours
3	Parking Lot	Excavation	Roller	Diesel	16823.40	C	8 Hours pe	103.5286	hours
3	Parking Lot	Excavation	Dozer	Diesel	16823.40	C	8 Hours pe	168.234	hours
3	Parking Lot	Excavation	Dump Truc	Diesel	16823.40	C	8 Hours pe	448.624	hours
3	Parking Lot	Excavation	Excavator	Diesel	16823.40	C	8 Hours pe	134.5872	hours
3	Parking Lot	Excavation	Pickup Truc	Diesel	16823.40	C	8 Hours pe	134.5872	hours
3	Parking Lot	Excavation	Roller	Diesel	16823.40	C	8 Hours pe	134.5872	hours
3	Parking Lot	Excavation	Scraper	Diesel	16823.40	C	8 Hours pe	168.234	hours
3	Parking Lot	Excavation	Dozer	Diesel	40376.30	S	8 Hours pe	63.33537	hours
3	Parking Lot	Fencing	Concrete T	Diesel	2425.00	LF	2 Hours pe	26.94444	hours
3	Parking Lot	Fencing	Dump Truc	Diesel	2425.00	LF	8 Hours pe	107.7778	hours
3	Parking Lot	Fencing	Other Gen	Diesel	2425.00	LF	8 Hours pe	107.7778	hours
3	Parking Lot	Fencing	Pickup Truc	Diesel	2425.00	LF	8 Hours pe	107.7778	hours
3	Parking Lot	Fencing	Skid Steer l	Diesel	2425.00	LF	8 Hours pe	107.7778	hours
3	Parking Lot	Fencing	Tractors/Lc	Diesel	2425.00	LF	8 Hours pe	107.7778	hours
3	Parking Lot	Grading	Dozer	Diesel	43245.60	S	8 Hours pe	43.2456	hours
3	Parking Lot	Grading	Grader	Diesel	43245.60	S	8 Hours pe	43.2456	hours
3	Parking Lot	Grading	Roller	Diesel	43245.60	S	8 Hours pe	43.2456	hours
3	Parking Lot	Hydroseed	Hydroseed	Diesel	389600.00		8 Hours pe	38.96	hours
3	Parking Lot	Hydroseed	Off-Road T	Diesel	389600.00		8 Hours pe	38.96	hours
3	Parking Lot	Markings	Flatbed Tru	Diesel	5150.00	SF	8 Hours pe	11.77143	hours
3	Parking Lot	Markings	Other Gen	Diesel	5150.00	SF	8 Hours pe	11.77143	hours
3	Parking Lot	Markings	Pickup Truc	Diesel	5150.00	SF	8 Hours pe	11.77143	hours
3	Parking Lot	Sidewalks	Concrete T	Diesel	7275.00	SF	8 Hours pe	97	hours
3	Parking Lot	Sidewalks	Dump Truc	Diesel	7275.00	SF	8 Hours pe	97	hours
3	Parking Lot	Sidewalks	Pickup Truc	Diesel	7275.00	SF	8 Hours pe	97	hours
3	Parking Lot	Sidewalks	Tractors/Lc	Diesel	7275.00	SF	8 Hours pe	97	hours
3	Parking Lot	Sidewalks	Vibratory C	Diesel	7275.00	SF	8 Hours pe	97	hours
3	Parking Lot	Soil Erosior	Other Gen	Diesel	9.00	Acre	4 Hours pe	36	hours
3	Parking Lot	Soil Erosior	Pickup Truc	Diesel	9.00	Acre	8 Hours pe	72	hours
3	Parking Lot	Soil Erosior	Pumps	Diesel	9.00	Acre	4 Hours pe	36	hours
3	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	9.00	Acre	4 Hours pe	36	hours
3	Parking Lot	Street Ligh	Dump Truc	Diesel	9.10	Lights	8 Hours pe	24.26667	hours
3	Parking Lot	Street Ligh	Loader	Diesel	9.10	Lights	8 Hours pe	24.26667	hours
3	Parking Lot	Street Ligh	Other Gen	Diesel	9.10	Lights	8 Hours pe	24.26667	hours
3	Parking Lot	Street Ligh	Pickup Truc	Diesel	9.10	Lights	8 Hours pe	24.26667	hours
3	Parking Lot	Street Ligh	Skid Steer l	Diesel	9.10	Lights	8 Hours pe	24.26667	hours
3	Parking Lot	Street Ligh	Tractors/Lc	Diesel	9.10	Lights	8 Hours pe	24.26667	hours
3	Parking Lot	Subbase Pl	Dozer	Diesel	40376.30	S	8 Hours pe	85.00274	hours
3	Parking Lot	Subbase Pl	Dump Truc	Diesel	13458.80	C	8 Hours pe	598.1689	hours
3	Parking Lot	Subbase Pl	Pickup Truc	Diesel	40376.30	S	8 Hours pe	85.00274	hours
3	Parking Lot	Subbase Pl	Roller	Diesel	13458.80	C	8 Hours pe	82.82338	hours
3	Parking Lot	Topsoil Pla	Dozer	Diesel	7207.60	CY	8 Hours pe	96.10133	hours
3	Parking Lot	Topsoil Pla	Dump Truc	Diesel	7207.60	CY	8 Hours pe	96.10133	hours
3	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	7207.60	CY	8 Hours pe	96.10133	hours
3	Parking Lot	Tree Planti	Flatbed Tru	Diesel	5.00	Trees	8 Hours pe	4	hours
3	Parking Lot	Tree Planti	Other Gen	Diesel	5.00	Trees	8 Hours pe	4	hours
3	Parking Lot	Tree Planti	Pickup Truc	Diesel	5.00	Trees	8 Hours pe	4	hours
3	Parking Lot	Tree Planti	Tractors/Lc	Diesel	5.00	Trees	8 Hours pe	4	hours
3	Taxiways	Asphalt Pla	Asphalt Pa	Diesel	13375.50	S	8 Hours pe	16.71938	hours
3	Taxiways	Asphalt Pla	Dump Truc	Diesel	13375.50	S	8 Hours pe	60.21609	hours
3	Taxiways	Asphalt Pla	Other Gen	Diesel	13375.50	S	16 Hours p	33.43875	hours
3	Taxiways	Asphalt Pla	Pickup Truc	Diesel	13375.50	S	8 Hours pe	16.71938	hours
3	Taxiways	Asphalt Pla	Roller	Diesel	13375.50	S	8 Hours pe	16.71938	hours
3	Taxiways	Asphalt Pla	Skid Steer l	Diesel	13375.50	S	8 Hours pe	16.71938	hours
3	Taxiways	Asphalt Pla	Surfacing E	Diesel	13375.50	S	8 Hours pe	21.4008	hours
3	Taxiways	Clearing an	Chain Saw	Diesel	3.10	Acre	12 Hours p	37.2	hours
3	Taxiways	Clearing an	Chipper/St	Diesel	3.10	Acre	12 Hours p	37.2	hours
3	Taxiways	Clearing an	Pickup Truc	Diesel	3.10	Acre	16 Hours p	49.6	hours
3	Taxiways	Drainage -	Dozer	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Dump Truc	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Excavator	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Loader	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Other Gen	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Pickup Truc	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Roller	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Dump Truc	Diesel	2430.00	LF	8 Hours pe	21.6	hours
3	Taxiways	Drainage -	Loader	Diesel	2430.00	LF	8 Hours pe	21.6	hours
3	Taxiways	Drainage -	Other Gen	Diesel	2430.00	LF	8 Hours pe	21.6	hours
3	Taxiways	Drainage -	Pickup Truc	Diesel	2430.00	LF	8 Hours pe	21.6	hours
3	Taxiways	Drainage -	Tractors/Lc	Diesel	2430.00	LF	8 Hours pe	21.6	hours
3	Taxiways	Dust Contr	Water Truc	Diesel	180.00	Day	8 Hours pe	1440	hours
3	Taxiways	Excavation	Dozer	Diesel	5573.10	CY	8 Hours pe	74.308	hours
3	Taxiways	Excavation	Dump Truc	Diesel	5573.10	CY	8 Hours pe	74.308	hours
3	Taxiways	Excavation	Pickup Truc	Diesel	5573.10	CY	8 Hours pe	74.308	hours
3	Taxiways	Excavation	Roller	Diesel	5573.10	CY	8 Hours pe	34.296	hours
3	Taxiways	Excavation	Dozer	Diesel	5573.10	CY	8 Hours pe	55.731	hours
3	Taxiways	Excavation	Dump Truc	Diesel	5573.10	CY	8 Hours pe	148.616	hours
3	Taxiways	Excavation	Excavator	Diesel	5573.10	CY	8 Hours pe	44.5848	hours
3	Taxiways	Excavation	Pickup Truc	Diesel	5573.10	CY	8 Hours pe	44.5848	hours
3	Taxiways	Excavation	Roller	Diesel	5573.10	CY	8 Hours pe	44.5848	hours
3	Taxiways	Excavation	Scraper	Diesel	5573.10	CY	8 Hours pe	55.731	hours
3	Taxiways	Excavation	Dozer	Diesel	13375.50	S	8 Hours pe	20.98118	hours
3	Taxiways	Fencing	Concrete T	Diesel	1205.00	LF	2 Hours pe	13.38889	hours
3	Taxiways	Fencing	Dump Truc	Diesel	1205.00	LF	8 Hours pe	53.55556	hours
3	Taxiways	Fencing	Other Gen	Diesel	1205.00	LF	8 Hours pe	53.55556	hours
3	Taxiways	Fencing	Pickup Truc	Diesel	1205.00	LF	8 Hours pe	53.55556	hours
3	Taxiways	Fencing	Skid Steer l	Diesel	1205.00	LF	8 Hours pe	53.55556	hours
3	Taxiways	Fencing	Tractors/Lc	Diesel	1205.00	LF	8 Hours pe	53.55556	hours
3	Taxiways	Grading	Dozer	Diesel	14835.20	S	8 Hours pe	14.8352	hours
3	Taxiways	Grading	Grader	Diesel	14835.20	S	8 Hours pe	14.8352	hours
3	Taxiways	Grading	Roller	Diesel	14835.20	S	8 Hours pe	14.8352	hours
3	Taxiways	Hydroseed	Hydroseed	Diesel	133650.00		8 Hours pe	13.365	hours
3	Taxiways	Hydroseed	Off-Road T	Diesel	133650.00		8 Hours pe	13.365	hours
3	Taxiways	Lighting	Dump Truc	Diesel	2610.00	LF	8 Hours pe	17.4	hours
3	Taxiways	Lighting	Loader	Diesel	2610.00	LF	8 Hours pe	17.4	hours
3	Taxiways	Lighting	Other Gen	Diesel	2610.00	LF	8 Hours pe	17.4	hours
3	Taxiways	Lighting	Pickup Truc	Diesel	2610.00	LF	8 Hours pe	17.4	hours
3	Taxiways	Lighting	Skid Steer l	Diesel	2610.00	LF	8 Hours pe	17.4	hours
3	Taxiways	Lighting	Tractors/Lc	Diesel	2610.00	LF	8 Hours pe	17.4	hours
3	Taxiways	Markings	Flatbed Tru	Diesel	120500.00		8 Hours pe	275.4286	hours
3	Taxiways	Markings	Other Gen	Diesel	120500.00		8 Hours pe	275.4286	hours
3	Taxiways	Markings	Pickup Truc	Diesel	120500.00		8 Hours pe	275.4286	hours
3	Taxiways	Soil Erosior	Other Gen	Diesel	3.10	Acre	4 Hours pe	12.4	hours
3	Taxiways	Soil Erosior	Pickup Truc	Diesel	3.10	Acre	8 Hours pe	24.8	hours
3	Taxiways	Soil Erosior	Pumps	Diesel	3.10	Acre	4 Hours pe	12.4	hours

ACEIT Input - Default Asphalt Application Rates

3	Taxiways	Soil Erosior	Tractors/Lc	Diesel	3.10 Acre	4 Hours pe	12.4	hours
3	Taxiways	Subbase Pl	Dozer	Diesel	13375.50 S	8 Hours pe	28.15895	hours
3	Taxiways	Subbase Pl	Dump Truc	Diesel	4458.50 CY	8 Hours pe	198.1556	hours
3	Taxiways	Subbase Pl	Pickup Truc	Diesel	13375.50 S	8 Hours pe	28.15895	hours
3	Taxiways	Subbase Pl	Roller	Diesel	4458.50 CY	8 Hours pe	27.43692	hours
3	Taxiways	Topsoil Pla	Dozer	Diesel	2472.50 CY	8 Hours pe	32.96667	hours
3	Taxiways	Topsoil Pla	Dump Truc	Diesel	2472.50 CY	8 Hours pe	32.96667	hours
3	Taxiways	Topsoil Pla	Pickup Truc	Diesel	2472.50 CY	8 Hours pe	32.96667	hours

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Activity: On-Road

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Scenario ID	Project	Equipment	On-road Ac	Fuel	Roadway T	Round Trip	Number of	Number of	Project Len	Project Wic	Project Are	Building He	Open Spac	Number of	Activity Siz	Activity Rat	Default VM	User VMT
1	Cargo Aprc	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	428	250	--	--	--	--	--	--	1553	
1	Cargo Aprc	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	428	250	--	--	--	--	--	--	24744	
1	Cargo Aprc	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	428	250	--	--	--	--	--	--	2199	
1	Cargo Aprc	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	428	250	--	--	--	--	--	--	13197	
1	Cargo Aprc	Passenger	Employee (	Gasoline	Urban Unre	30	69	43	--	--	--	--	--	--	--	--	89010	
1	Parking Lot	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	970	150	--	--	--	--	--	--	2111	
1	Parking Lot	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	970	150	--	--	--	--	--	--	33647	
1	Parking Lot	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	970	150	--	--	--	--	--	--	2991	
1	Parking Lot	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	970	150	--	--	--	--	--	--	17945	
1	Parking Lot	Passenger	Employee (	Gasoline	Urban Unre	30	77	43	--	--	--	--	--	--	--	--	99330	
1	Rehabilitat	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	3675	250	--	--	--	--	--	--	13331	
1	Rehabilitat	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	3675	250	--	--	--	--	--	--	212461	
1	Rehabilitat	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	3675	250	--	--	--	--	--	--	18885	
1	Rehabilitat	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	3675	250	--	--	--	--	--	--	113313	
1	Rehabilitat	Passenger	Employee (	Gasoline	Urban Unre	30	49	43	--	--	--	--	--	--	--	--	63210	
2	Building - 1	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	--	--	100000	--	--	--	--	--	23125	
2	Building - 1	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	--	--	100000	--	--	--	--	--	12333	
2	Building - 1	Passenger	Employee (	Gasoline	Urban Unre	30	137.5	65	--	--	--	--	--	--	--	--	268125	
2	Building - 1	Tractor Tra	Material Dc	Diesel	Urban Unre	40	--	--	--	--	100000	--	--	--	--	0.0024	2400	
2	Cargo Aprc	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	642	250	--	--	--	--	--	--	2329	
2	Cargo Aprc	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	642	250	--	--	--	--	--	--	37116	
2	Cargo Aprc	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	642	250	--	--	--	--	--	--	3299	
2	Cargo Aprc	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	642	250	--	--	--	--	--	--	19795	
2	Cargo Aprc	Passenger	Employee (	Gasoline	Urban Unre	30	69	65	--	--	--	--	--	--	--	--	134550	
2	Parking Lot	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	1455	150	--	--	--	--	--	--	3167	
2	Parking Lot	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	1455	150	--	--	--	--	--	--	50470	
2	Parking Lot	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	1455	150	--	--	--	--	--	--	4486	
2	Parking Lot	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	1455	150	--	--	--	--	--	--	26918	
2	Parking Lot	Passenger	Employee (	Gasoline	Urban Unre	30	77	65	--	--	--	--	--	--	--	--	150150	
3	Building - 1	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	--	--	100000	--	--	--	--	--	23125	
3	Building - 1	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	--	--	100000	--	--	--	--	--	12333	
3	Building - 1	Passenger	Employee (	Gasoline	Urban Unre	30	137.5	129	--	--	--	--	--	--	--	--	532125	
3	Building - 1	Tractor Tra	Material Dc	Diesel	Urban Unre	40	--	--	--	--	100000	--	--	--	--	0.0024	2400	
3	Cargo Aprc	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	855	250	--	--	--	--	--	--	3101	
3	Cargo Aprc	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	855	250	--	--	--	--	--	--	49430	
3	Cargo Aprc	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	855	250	--	--	--	--	--	--	4394	
3	Cargo Aprc	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	855	250	--	--	--	--	--	--	26363	
3	Cargo Aprc	Passenger	Employee (	Gasoline	Urban Unre	30	69	129	--	--	--	--	--	--	--	--	267030	
3	Drainage S	Passenger	Employee (	Gasoline	Urban Unre	30	27	129	--	--	--	--	--	--	--	--	104490	
3	Fuel Tanks	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	415	100	--	--	--	--	--	--	602	
3	Fuel Tanks	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	415	100	--	--	--	--	--	--	9597	
3	Fuel Tanks	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	415	100	--	--	--	--	--	--	853	
3	Fuel Tanks	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	415	100	--	--	--	--	--	--	5118	
3	Fuel Tanks	Passenger	Employee (	Gasoline	Urban Unre	30	64	129	--	--	--	--	--	--	--	--	247680	
3	Parking Lot	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	2425	150	--	--	--	--	--	--	5278	
3	Parking Lot	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	2425	150	--	--	--	--	--	--	84117	
3	Parking Lot	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	2425	150	--	--	--	--	--	--	7477	
3	Parking Lot	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	2425	150	--	--	--	--	--	--	44863	
3	Parking Lot	Passenger	Employee (	Gasoline	Urban Unre	30	77	129	--	--	--	--	--	--	--	--	297990	
3	Taxiways	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	1205	100	--	--	--	--	--	--	1748	
3	Taxiways	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	1205	100	--	--	--	--	--	--	27866	
3	Taxiways	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	1205	100	--	--	--	--	--	--	2477	
3	Taxiways	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	1205	100	--	--	--	--	--	--	14862	
3	Taxiways	Passenger	Employee (	Gasoline	Urban Unre	30	65	129	--	--	--	--	--	--	--	--	251550	

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Emission Factor: Non-Road

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Scenario ID	Project	Constructic	Equipment	Fuel Type	Avg Rated	Load Facto	CO (g/hp-h	NOx (g/hp-	CO2 (g/hp-	SO2 (g/hp-	PM10 (g/h	PM2.5 (g/h	VOC Exhau	VOC Evaporative (g/equipment-day)
1	Cargo Aprc	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.74819	8.968334	61.88836	26.04661
1	Cargo Aprc	Clearing an	Chipper/St	Diesel	100	0.43	1.929616	3.464993	589.1723	0.003558	0.342033	0.314671	0.39496	0.077683
1	Cargo Aprc	Clearing an	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Concrete P	Air Compre	Diesel	100	0.43	1.376676	2.284886	589.6476	0.003374	0.205107	0.188698	0.238056	0.268937
1	Cargo Aprc	Concrete P	Concrete S	Diesel	40	0.59	0.678442	3.483034	595.6	0.003185	0.10015	0.092138	0.183824	0.004375
1	Cargo Aprc	Concrete P	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Concrete P	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Concrete P	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Concrete P	Rubber Tir	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Cargo Aprc	Concrete P	Slip Form P	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495
1	Cargo Aprc	Concrete P	Surfacing E	Diesel	25	0.59	2.395309	4.457987	594.7242	0.004009	0.352929	0.324695	0.472896	0.005787
1	Cargo Aprc	Drainage -	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Drainage -	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098
1	Cargo Aprc	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Cargo Aprc	Drainage -	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Drainage -	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Cargo Aprc	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Cargo Aprc	Drainage -	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Drainage -	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Cargo Aprc	Dust Contr	Water Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Excavation	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098
1	Cargo Aprc	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Cargo Aprc	Excavation	Scraper	Diesel	600	0.59	0.7052	1.719861	536.3433	0.002997	0.107454	0.098858	0.160859	0.847351
1	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Fencing	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Fencing	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Fencing	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Fencing	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Fencing	Skid Steer I	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Cargo Aprc	Fencing	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Cargo Aprc	Grading	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Grading	Grader	Diesel	300	0.59	0.310981	1.005164	536.3675	0.002755	0.052605	0.048397	0.15282	0.229828
1	Cargo Aprc	Grading	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Cargo Aprc	Hydroseed	Hydroseed	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Hydroseed	Off-Road T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Lighting	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Lighting	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Cargo Aprc	Lighting	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Lighting	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Lighting	Skid Steer I	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Cargo Aprc	Lighting	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Cargo Aprc	Markings	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Markings	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Markings	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Sealing/Fu	Distributin	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Sealing/Fu	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Sealing/Fu	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Soil Erosior	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Soil Erosior	Pumps	Diesel	11	0.43	4.464978	4.708033	588.3636	0.003966	0.447631	0.411821	0.661952	0.019081
1	Cargo Aprc	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Cargo Aprc	Subbase Pl	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Subbase Pl	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Subbase Pl	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Cargo Aprc	Topsoil Pla	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495
1	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Asphalt Pla	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Parking Lot	Asphalt Pla	Skid Steer I	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.395309	4.457987	594.7242	0.004009	0.352929	0.324695	0.472896	0.005787
1	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.74819	8.968334	61.88836	26.04661
1	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	1.929616	3.464993	589.1723	0.003558	0.342033	0.314671	0.39496	0.077683
1	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495
1	Parking Lot	Curbing	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098
1	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Parking Lot	Drainage -	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Drainage -	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Parking Lot	Drainage -	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619

ACEIT Input - Default Asphalt Application Rates

1	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Excavation	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098
1	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Parking Lot	Excavation	Scraper	Diesel	600	0.59	0.7052	1.719861	536.3433	0.002997	0.107454	0.098858	0.160859	0.847351
1	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Fencing	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Fencing	Skid Steer	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Parking Lot	Fencing	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Parking Lot	Grading	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Grading	Grader	Diesel	300	0.59	0.310981	1.005164	536.3675	0.002755	0.052605	0.048397	0.15282	0.229828
1	Parking Lot	Grading	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Parking Lot	Hydroseed	Hydroseed	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Hydroseed	Off-Road T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Markings	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Sidewalks	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	4.454042	4.505789	588.4782	0.003967	0.409876	0.377086	0.624107	0.007042
1	Parking Lot	Soil Erosior	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	4.464978	4.708033	588.3636	0.003966	0.447631	0.411821	0.661952	0.019081
1	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Parking Lot	Street Ligh	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Street Ligh	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Parking Lot	Street Ligh	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Street Ligh	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Street Ligh	Skid Steer	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Parking Lot	Street Ligh	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Tree Planti	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Tree Planti	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Rehabilitat	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495
1	Rehabilitat	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Asphalt Pla	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Rehabilitat	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Asphalt Pla	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Rehabilitat	Asphalt Pla	Skid Steer	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Rehabilitat	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.395309	4.457987	594.7242	0.004009	0.352929	0.324695	0.472896	0.005787
1	Rehabilitat	Cold Millin	Cold Plane	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495
1	Rehabilitat	Cold Millin	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Cold Millin	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Cold Millin	Sweepers	Diesel	175	0.43	0.343805	1.201601	530.5518	0.002842	0.081797	0.075253	0.162001	0.242332
1	Rehabilitat	Cold Millin	Water Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Dust Contr	Water Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Rehabilitat	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Excavation	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098
1	Rehabilitat	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Rehabilitat	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Rehabilitat	Grading	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Rehabilitat	Grading	Grader	Diesel	300	0.59	0.310981	1.005164	536.3675	0.002755	0.052605	0.048397	0.15282	0.229828
1	Rehabilitat	Grading	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Rehabilitat	Hydroseed	Hydroseed	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Hydroseed	Off-Road T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Lighting	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Lighting	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Rehabilitat	Lighting	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Rehabilitat	Lighting	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Lighting	Skid Steer	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Rehabilitat	Lighting	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Rehabilitat	Markings	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Markings	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Rehabilitat	Markings	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Sealing Rar	Crack Clear	Diesel	40	0.59	0.678442	3.483034	595.6	0.003185	0.10015	0.092138	0.183824	0.004375
1	Rehabilitat	Sealing Rar	Crack Filler	Diesel	100	0.43	0.272044	0.28198	589.9443	0.002847	0.011493	0.010574	0.140158	0
1	Rehabilitat	Sealing Rar	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Sealing Rar	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Rehabilitat	Sealing Rar	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Soil Erosior	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Rehabilitat	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Soil Erosior	Pumps	Diesel	11	0.43	4.464978	4.708033	588.3636	0.003966	0.447631	0.411821	0.661952	0.019081
1	Rehabilitat	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Rehabilitat	Subbase Pl	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Rehabilitat	Subbase Pl	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Subbase Pl	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Rehabilitat	Topsoil Pla	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Rehabilitat	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
2	Building - 1	Concrete F	Backhoe	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Building - 1	Concrete F	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317
2	Building - 1	Concrete F	Concrete R	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Concrete F	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848
2	Building - 1	Concrete F	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326
2	Building - 1	Concrete F	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Concrete F	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Constructic	Survey Cre	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Constructic	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Exterior W	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326
2	Building - 1	Exterior W	Generator	Diesel	40	0.43	1.287109	4.156952	589.3385	0.003484	0.248591	0.228704	0.340077	0.055245
2	Building - 1	Exterior W	Grout Mixe	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	0.999879
2	Building - 1	Exterior W	Grout Whe	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Exterior W	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.207786
2	Building - 1	Exterior W	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Exterior W	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Exterior W	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701
2	Building - 1	Interior Bu	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326
2	Building - 1	Interior Bu	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.207786
2	Building - 1	Interior Bu	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Interior Bu	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Roofing	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326
2	Building - 1	Roofing	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.207786
2	Building - 1	Roofing	Material D	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Roofing	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Roofing	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701
2	Building - 1	Security &	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326
2	Building - 1	Security &	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Structural	90 Ton Cra	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701
2	Building - 1	Structural	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317
2	Building - 1	Structural	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Structural	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326
2	Building - 1	Structural	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Structural	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Structural	Trowel Ma	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	0.999879
2	Building - 1	Structural	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701
2	Cargo Aprc	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.04661
2	Cargo Aprc	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239501	589.2407	0.003513	0.318043	0.2926	0.372367	0.071326
2	Cargo Aprc	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Concrete P	Air Compre	Diesel	100	0.43	1.240752	2.039629	589.6911	0.00331	0.181569	0.167043	0.223713	0.232417
2	Cargo Aprc	Concrete P	Concrete S	Diesel	40	0.59	0.600487	3.398114	595.6246	0.003128	0.085838	0.078971	0.175701	0.0035
2	Cargo Aprc	Concrete P	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Concrete P	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Concrete P	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Concrete P	Rubber Tire	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Cargo Aprc	Concrete P	Slip Form P	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.201391
2	Cargo Aprc	Concrete P	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7254	0.004009	0.353033	0.32479	0.472476	0.004629
2	Cargo Aprc	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848
2	Cargo Aprc	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Cargo Aprc	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Cargo Aprc	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Cargo Aprc	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Drainage -	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Cargo Aprc	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848
2	Cargo Aprc	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Cargo Aprc	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.726609
2	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Fencing	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113

ACEIT Input - Default Asphalt Application Rates

2	Cargo Aprc	Fencing	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181
2	Cargo Aprc	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Cargo Aprc	Grading	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.3751	0.002726	0.045102	0.041494	0.150319	0.188599
2	Cargo Aprc	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Cargo Aprc	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Lighting	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Lighting	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Cargo Aprc	Lighting	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Lighting	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Lighting	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181
2	Cargo Aprc	Lighting	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Cargo Aprc	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Sealing/Fu	Distributin	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Sealing/Fu	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Sealing/Fu	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317
2	Cargo Aprc	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Cargo Aprc	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Cargo Aprc	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Asphalt Pla	Asphalt Pav	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.201391
2	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Asphalt Pla	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Parking Lot	Asphalt Pla	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181
2	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7254	0.004009	0.353033	0.32479	0.472476	0.004629
2	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.04661
2	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239501	589.2407	0.003513	0.318043	0.2926	0.372367	0.071326
2	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.201391
2	Parking Lot	Curbing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848
2	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848
2	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Parking Lot	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.726609
2	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Fencing	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181
2	Parking Lot	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Parking Lot	Grading	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.3751	0.002726	0.045102	0.041494	0.150319	0.188599
2	Parking Lot	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Parking Lot	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Sidewalks	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	4.454262	4.474392	588.4964	0.003967	0.399923	0.367929	0.618084	0.005931
2	Parking Lot	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317
2	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Parking Lot	Street Ligh	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Street Ligh	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Parking Lot	Street Ligh	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Street Ligh	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Street Ligh	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181
2	Parking Lot	Street Ligh	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Tree Planti	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Tree Planti	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
3	Building - 1	Concrete F	Backhoe	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Building - 1	Concrete F	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Building - 1	Concrete F	Concrete R	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Concrete F	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Building - 1	Concrete F	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797
3	Building - 1	Concrete F	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Concrete F	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Constructic	Survey Cre	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Constructic	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Exterior W	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797
3	Building - 1	Exterior W	Generator	Diesel	40	0.43	1.287109	4.156952	589.3385	0.003484	0.248591	0.228704	0.340077	0.054044
3	Building - 1	Exterior W	Grout Mixe	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	1.331361
3	Building - 1	Exterior W	Grout Whe	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Exterior W	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.203268
3	Building - 1	Exterior W	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Exterior W	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Exterior W	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069
3	Building - 1	Interior Bu	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797
3	Building - 1	Interior Bu	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.203268
3	Building - 1	Interior Bu	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Interior Bu	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Roofing	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797
3	Building - 1	Roofing	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.203268
3	Building - 1	Roofing	Material De	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Roofing	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Roofing	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069
3	Building - 1	Security &	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797
3	Building - 1	Security &	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Structural S	90 Ton Cra	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069
3	Building - 1	Structural S	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Building - 1	Structural S	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Structural S	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797
3	Building - 1	Structural S	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Structural S	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Structural S	Trowel Ma	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	1.331361
3	Building - 1	Structural S	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069
3	Cargo Aprc	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746
3	Cargo Aprc	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401
3	Cargo Aprc	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Concrete P	Air Compre	Diesel	100	0.43	1.240752	2.039629	589.6911	0.00331	0.181569	0.167043	0.223713	0.227364
3	Cargo Aprc	Concrete P	Concrete S	Diesel	40	0.59	0.600487	3.398114	595.6246	0.003128	0.085838	0.078971	0.175701	0.004661
3	Cargo Aprc	Concrete P	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Concrete P	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Concrete P	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Concrete P	Rubber Tire	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Cargo Aprc	Concrete P	Slip Form P	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157
3	Cargo Aprc	Concrete P	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164
3	Cargo Aprc	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Cargo Aprc	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Cargo Aprc	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Cargo Aprc	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Cargo Aprc	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Cargo Aprc	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Drainage -	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Cargo Aprc	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Cargo Aprc	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819

ACEIT Input - Default Asphalt Application Rates

3	Cargo Aprc	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Cargo Aprc	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Cargo Aprc	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495
3	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Cargo Aprc	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Fencing	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Cargo Aprc	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Cargo Aprc	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Cargo Aprc	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124
3	Cargo Aprc	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Cargo Aprc	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Lighting	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Lighting	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Cargo Aprc	Lighting	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Lighting	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Lighting	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Cargo Aprc	Lighting	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Cargo Aprc	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Sealing/Fu	Distributin	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Sealing/Fu	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Sealing/Fu	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Cargo Aprc	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Cargo Aprc	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Cargo Aprc	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Cargo Aprc	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Cargo Aprc	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Drainage S	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Drainage S	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Drainage S	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Drainage S	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Drainage S	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Drainage S	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Drainage S	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Drainage S	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Drainage S	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Drainage S	Drainage S	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Drainage S	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Drainage S	Drainage S	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Drainage S	Drainage S	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Drainage S	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Drainage S	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Drainage S	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Drainage S	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746
3	Fuel Tanks	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401
3	Fuel Tanks	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Concrete P	Air Compre	Diesel	100	0.43	1.240752	2.039629	589.6911	0.00331	0.181569	0.167043	0.223713	0.227364
3	Fuel Tanks	Concrete P	Concrete S	Diesel	40	0.59	0.600487	3.398114	595.6246	0.003128	0.085838	0.078971	0.175701	0.004661
3	Fuel Tanks	Concrete P	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Concrete P	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Concrete P	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Concrete P	Rubber Tire	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Fuel Tanks	Concrete P	Slip Form P	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157
3	Fuel Tanks	Concrete P	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164
3	Fuel Tanks	Constructic	Crane	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069
3	Fuel Tanks	Constructic	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Constructic	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Fuel Tanks	Drainage	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Drainage	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Drainage	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Fuel Tanks	Drainage	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Drainage	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Drainage	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Fuel Tanks	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Fuel Tanks	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495
3	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Fencing	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Fuel Tanks	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Fuel Tanks	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124
3	Fuel Tanks	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Fuel Tanks	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Fuel Tanks	Street Ligh	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Street Ligh	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Fuel Tanks	Street Ligh	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Street Ligh	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Street Ligh	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Fuel Tanks	Street Ligh	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Fuel Tanks	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Fuel Tanks	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157
3	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Asphalt Pla	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Parking Lot	Asphalt Pla	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164
3	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746
3	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401
3	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157
3	Parking Lot	Curbing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Parking Lot	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495
3	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993

ACEIT Input - Default Asphalt Application Rates

3	Parking Lot	Fencing	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Parking Lot	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Parking Lot	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124
3	Parking Lot	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Parking Lot	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Markings	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Sidewalks	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	4.454262	4.474392	588.4964	0.003967	0.399923	0.367929	0.618083	0.007897
3	Parking Lot	Soil Erosior	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Parking Lot	Street Ligh	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Street Ligh	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Parking Lot	Street Ligh	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Street Ligh	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Street Ligh	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Parking Lot	Street Ligh	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Tree Planti	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Tree Planti	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Taxiways	Asphalt Pla	Asphalt Pav	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157
3	Taxiways	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Asphalt Pla	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Asphalt Pla	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Taxiways	Asphalt Pla	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Taxiways	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164
3	Taxiways	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746
3	Taxiways	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401
3	Taxiways	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Taxiways	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Taxiways	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Taxiways	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Taxiways	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Drainage -	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Taxiways	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Taxiways	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Taxiways	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Taxiways	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495
3	Taxiways	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Fencing	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Fencing	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Taxiways	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Taxiways	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124
3	Taxiways	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Taxiways	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Lighting	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Lighting	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Taxiways	Lighting	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Lighting	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Lighting	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Taxiways	Lighting	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Taxiways	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Markings	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Soil Erosior	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Taxiways	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Taxiways	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Taxiways	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993

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Emission Factors: On-Road

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Scenario IC	Project Typ	Equipmen	Fuel Type	Roadway T	CO(g/mi)	NOx(g/mi)	CO2(g/mi)	SO2(g/mi)	PM10(g/m	PM2.5(g/m	CH4(g/mi)	N2O(g/mi)	VOC(g/mi)	RV CO(g/ve	RV NOx(g/	RV CO2(g/	RV SO2(g/	RV PM10(g	RV PM2.5(	RV VOC(g/	RP VOC(g/veh-day)
1	Cargo Aprc	Asphalt 18	Diesel	Urban Unre	0.458112	1.864489	2328.796	0.015936	0.037545	0.036419	0.087838	0.072776	0.003464	26.27206	8.942973	459.7138	0.003146	0.000227	0.00022	6.657037	0
1	Cargo Aprc	Cement Mi	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Cargo Aprc	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Cargo Aprc	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Cargo Aprc	Passenger	Gasoline	Urban Unre	2.627713	0.075724	314.7649	0.004973	0.013122	0.012083	0.047792	0.004251	0.001668	139.2024	2.378925	618.3101	0.00977	0.129441	0.119191	5.333499	0.454486
1	Parking Lot	Asphalt 18	Diesel	Urban Unre	0.458112	1.864489	2328.796	0.015936	0.037545	0.036419	0.087838	0.072776	0.003464	26.27206	8.942973	459.7138	0.003146	0.000227	0.00022	6.657037	0
1	Parking Lot	Cement Mi	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Parking Lot	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Parking Lot	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Parking Lot	Passenger	Gasoline	Urban Unre	2.627713	0.075724	314.7649	0.004973	0.013122	0.012083	0.047792	0.004251	0.001668	139.2024	2.378925	618.3101	0.00977	0.129441	0.119191	5.333499	0.454486
1	Rehabilitat	Asphalt 18	Diesel	Urban Unre	0.458112	1.864489	2328.796	0.015936	0.037545	0.036419	0.087838	0.072776	0.003464	26.27206	8.942973	459.7138	0.003146	0.000227	0.00022	6.657037	0
1	Rehabilitat	Cement Mi	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Rehabilitat	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Rehabilitat	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Rehabilitat	Passenger	Gasoline	Urban Unre	2.627713	0.075724	314.7649	0.004973	0.013122	0.012083	0.047792	0.004251	0.001668	139.2024	2.378925	618.3101	0.00977	0.129441	0.119191	5.333499	0.454486
2	Building - 1	Cement Mi	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Building - 1	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Building - 1	Passenger	Gasoline	Urban Unre	2.674442	0.141116	353.9019	0.005592	0.013076	0.012041	0.060686	0.004278	0.001798	148.6489	3.430025	705.6336	0.01115	0.155753	0.143419	7.744363	0.715377
2	Building - 1	Tractor Tra	Diesel	Urban Unre	1.404516	5.278901	2328.799	0.016519	0.248141	0.240705	0.290476	0.065585	0.003463	26.30976	8.945107	456.9505	0.003422	0.041797	0.040545	6.918896	0
2	Cargo Aprc	Asphalt 18	Diesel	Urban Unre	1.404516	5.278901	2328.799	0.016519	0.248141	0.240705	0.290476	0.065585	0.003463	26.30976	8.945107	456.9505	0.003422	0.041797	0.040545	6.918896	0
2	Cargo Aprc	Cement Mi	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Cargo Aprc	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Cargo Aprc	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Cargo Aprc	Passenger	Gasoline	Urban Unre	2.674442	0.141116	353.9019	0.005592	0.013076	0.012041	0.060686	0.004278	0.001798	148.6489	3.430025	705.6336	0.01115	0.155753	0.143419	7.744363	0.715377
2	Parking Lot	Asphalt 18	Diesel	Urban Unre	1.404516	5.278901	2328.799	0.016519	0.248141	0.240705	0.290476	0.065585	0.003463	26.30976	8.945107	456.9505	0.003422	0.041797	0.040545	6.918896	0
2	Parking Lot	Cement Mi	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Parking Lot	Passenger	Gasoline	Urban Unre	2.674442	0.141116	353.9019	0.005592	0.013076	0.012041	0.060686	0.004278	0.001798	148.6489	3.430025	705.6336	0.01115	0.155753	0.143419	7.744363	0.715377
3	Building - 1	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Building - 1	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Building - 1	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Building - 1	Tractor Tra	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Cargo Aprc	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Cargo Aprc	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Cargo Aprc	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Cargo Aprc	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Cargo Aprc	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Drainage S	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Fuel Tanks	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Fuel Tanks	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Fuel Tanks	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Fuel Tanks	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Fuel Tanks	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Parking Lot	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Parking Lot	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Parking Lot	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Taxiways	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Taxiways	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Taxiways	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Taxiways	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Taxiways	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0

==

Fugitive Emissions

Scenario IC	Project	Fugitive Ty	Variable	Default Val	Units	User Value
1	Cargo Aprc	Concrete N	V = Volume	4948.8	yd3	
1	Cargo Aprc	Concrete N	PM10 = 0.C	183.1	lbs	
1	Cargo Aprc	Material M	s = Surface	0.043	fraction	
1	Cargo Aprc	Material M	Wt. = Mear	32	tons	
1	Cargo Aprc	Material M	VMT = Veh	3310.9	miles	
1	Cargo Aprc	Material M	PM10 = 1.5	90.7	lbs	

ACEIT Input - Default Asphalt Application Rates

1	Cargo Aprc	Material M	sL = Road s	0.1 g/m3
1	Cargo Aprc	Material M	Wt. = Mear	32 tons
1	Cargo Aprc	Material M	VMT = Veh	3010 miles
1	Cargo Aprc	Material M	PM10 = 0.0	27.9 lbs
1	Cargo Aprc	Unstabilize	A = Area af	2.456 acres
1	Cargo Aprc	Unstabilize	TPConv = T	0.5 fraction
1	Cargo Aprc	Unstabilize	CE = Contrc	0.63 fraction
1	Cargo Aprc	Unstabilize	t = year (e.g	0.167 years
1	Cargo Aprc	Unstabilize	PM10 = 0.3	1.44E-05 lbs
1	Cargo Aprc	Soil Handli	u = Wind sp	5 mph
1	Cargo Aprc	Soil Handli	m = Moistu	0.25 fraction
1	Cargo Aprc	Soil Handli	T = Mass ol	2942.5 tons
1	Cargo Aprc	Soil Handli	PM10 = T x	60.6 lbs
1	Parking Lot	Asphalt Dn	A = Area of	13517 m2
1	Parking Lot	Asphalt Dn	AR = Applic	1.811 l/m2
1	Parking Lot	Asphalt Dn	VD = Volum	0.35 fraction
1	Parking Lot	Asphalt Dn	EF = Mass f	0.7 fraction
1	Parking Lot	Asphalt Dn	D = Density	1.8 lbs/l
1	Parking Lot	Asphalt Dn	VOC = A x A	10795.3 lbs
1	Parking Lot	Asphalt Stc	T = Mass ol	1758.5 tons
1	Parking Lot	Asphalt Stc	PM10 = (0.	48.2 lbs
1	Parking Lot	Asphalt Stc	CO = (0.4 +	704.1 lbs
1	Parking Lot	Asphalt Stc	NOx = (0.02	44 lbs
1	Parking Lot	Asphalt Stc	SOx = (0.00	8.089 lbs
1	Parking Lot	Asphalt Stc	VOC = (0.0	21.8 lbs
1	Parking Lot	Material M	s = Surface	0.043 fraction
1	Parking Lot	Material M	Wt. = Mear	32 tons
1	Parking Lot	Material M	VMT = Veh	4347.7 miles
1	Parking Lot	Material M	PM10 = 1.5	119.1 lbs
1	Parking Lot	Material M	sL = Road s	0.1 g/m3
1	Parking Lot	Material M	Wt. = Mear	32 tons
1	Parking Lot	Material M	VMT = Veh	3870 miles
1	Parking Lot	Material M	PM10 = 0.0	35.9 lbs
1	Parking Lot	Soil Handli	u = Wind sp	5 mph
1	Parking Lot	Soil Handli	m = Moistu	0.25 fraction
1	Parking Lot	Soil Handli	T = Mass ol	4001.3 tons
1	Parking Lot	Soil Handli	PM10 = T x	82.4 lbs
1	Parking Lot	Unstabilize	A = Area af	3.34 acres
1	Parking Lot	Unstabilize	TPConv = T	0.5 fraction
1	Parking Lot	Unstabilize	CE = Contrc	0.63 fraction
1	Parking Lot	Unstabilize	t = year (e.g	0.167 years
1	Parking Lot	Unstabilize	PM10 = 0.3	1.96E-05 lbs
1	Rehabilitat	Asphalt Dn	A = Area of	85351.9 m2
1	Rehabilitat	Asphalt Dn	AR = Applic	1.811 l/m2
1	Rehabilitat	Asphalt Dn	VD = Volum	0.35 fraction
1	Rehabilitat	Asphalt Dn	EF = Mass f	0.7 fraction
1	Rehabilitat	Asphalt Dn	D = Density	1.8 lbs/l
1	Rehabilitat	Asphalt Dn	VOC = A x A	68166.4 lbs
1	Rehabilitat	Asphalt Stc	T = Mass ol	11103.8 tons
1	Rehabilitat	Asphalt Stc	PM10 = (0.	304.5 lbs
1	Rehabilitat	Asphalt Stc	CO = (0.4 +	4446 lbs
1	Rehabilitat	Asphalt Stc	NOx = (0.02	277.6 lbs
1	Rehabilitat	Asphalt Stc	SOx = (0.00	51.1 lbs
1	Rehabilitat	Asphalt Stc	VOC = (0.0	137.7 lbs
1	Rehabilitat	Material M	s = Surface	0.043 fraction
1	Rehabilitat	Material M	Wt. = Mear	32 tons
1	Rehabilitat	Material M	VMT = Veh	23169.2 miles
1	Rehabilitat	Material M	PM10 = 1.5	634.6 lbs
1	Rehabilitat	Material M	sL = Road s	0.1 g/m3
1	Rehabilitat	Material M	Wt. = Mear	32 tons
1	Rehabilitat	Material M	VMT = Veh	22575 miles
1	Rehabilitat	Material M	PM10 = 0.0	209.6 lbs
1	Rehabilitat	Unstabilize	A = Area af	21.1 acres
1	Rehabilitat	Unstabilize	TPConv = T	0.5 fraction
1	Rehabilitat	Unstabilize	CE = Contrc	0.63 fraction
1	Rehabilitat	Unstabilize	t = year (e.g	0.167 years
1	Rehabilitat	Unstabilize	PM10 = 0.3	0.000124 lbs
1	Rehabilitat	Soil Handli	u = Wind sp	5 mph
1	Rehabilitat	Soil Handli	m = Moistu	0.25 fraction
1	Rehabilitat	Soil Handli	T = Mass ol	25265.6 tons
1	Rehabilitat	Soil Handli	PM10 = T x	520.1 lbs
2	Building - 1	Concrete N	V = Volume	4625 yd3
2	Building - 1	Concrete N	PM10 = 0.0	171.1 lbs
2	Building - 1	Material M	sL = Road s	0.1 g/m3
2	Building - 1	Material M	Wt. = Mear	32 tons
2	Building - 1	Material M	VMT = Veh	2600 miles
2	Building - 1	Material M	PM10 = 0.0	24.1 lbs
2	Building - 1	Material M	s = Surface	0.043 fraction
2	Building - 1	Material M	Wt. = Mear	32 tons
2	Building - 1	Material M	VMT = Veh	2700 miles
2	Building - 1	Material M	PM10 = 1.5	73.9 lbs
2	Cargo Aprc	Concrete N	V = Volume	7423.1 yd3
2	Cargo Aprc	Concrete N	PM10 = 0.0	274.7 lbs
2	Cargo Aprc	Material M	s = Surface	0.043 fraction
2	Cargo Aprc	Material M	Wt. = Mear	32 tons
2	Cargo Aprc	Material M	VMT = Veh	4999.4 miles
2	Cargo Aprc	Material M	PM10 = 1.5	136.9 lbs
2	Cargo Aprc	Material M	sL = Road s	0.1 g/m3
2	Cargo Aprc	Material M	Wt. = Mear	32 tons
2	Cargo Aprc	Material M	VMT = Veh	4550 miles
2	Cargo Aprc	Material M	PM10 = 0.0	42.2 lbs
2	Cargo Aprc	Unstabilize	A = Area af	3.685 acres
2	Cargo Aprc	Unstabilize	TPConv = T	0.5 fraction
2	Cargo Aprc	Unstabilize	CE = Contrc	0.63 fraction
2	Cargo Aprc	Unstabilize	t = year (e.g	0.25 years
2	Cargo Aprc	Unstabilize	PM10 = 0.3	3.24E-05 lbs
2	Cargo Aprc	Soil Handli	u = Wind sp	5 mph
2	Cargo Aprc	Soil Handli	m = Moistu	0.25 fraction
2	Cargo Aprc	Soil Handli	T = Mass ol	4413.8 tons
2	Cargo Aprc	Soil Handli	PM10 = T x	90.9 lbs
2	Parking Lot	Asphalt Dn	A = Area of	20275.4 m2
2	Parking Lot	Asphalt Dn	AR = Applic	1.811 l/m2
2	Parking Lot	Asphalt Dn	VD = Volum	0.35 fraction
2	Parking Lot	Asphalt Dn	EF = Mass f	0.7 fraction
2	Parking Lot	Asphalt Dn	D = Density	1.8 lbs/l
2	Parking Lot	Asphalt Dn	VOC = A x A	16193 lbs
2	Parking Lot	Asphalt Stc	T = Mass ol	2637.7 tons
2	Parking Lot	Asphalt Stc	PM10 = (0.	72.3 lbs
2	Parking Lot	Asphalt Stc	CO = (0.4 +	1056.1 lbs
2	Parking Lot	Asphalt Stc	NOx = (0.02	65.9 lbs
2	Parking Lot	Asphalt Stc	SOx = (0.00	12.1 lbs
2	Parking Lot	Asphalt Stc	VOC = (0.0	32.7 lbs
2	Parking Lot	Material M	s = Surface	0.043 fraction
2	Parking Lot	Material M	Wt. = Mear	32 tons
2	Parking Lot	Material M	VMT = Veh	6565.8 miles
2	Parking Lot	Material M	PM10 = 1.5	179.8 lbs
2	Parking Lot	Material M	sL = Road s	0.1 g/m3
2	Parking Lot	Material M	Wt. = Mear	32 tons
2	Parking Lot	Material M	VMT = Veh	5850 miles
2	Parking Lot	Material M	PM10 = 0.0	54.3 lbs
2	Parking Lot	Soil Handli	u = Wind sp	5 mph
2	Parking Lot	Soil Handli	m = Moistu	0.25 fraction
2	Parking Lot	Soil Handli	T = Mass ol	6001.9 tons
2	Parking Lot	Soil Handli	PM10 = T x	123.5 lbs
2	Parking Lot	Unstabilize	A = Area af	5.01 acres
2	Parking Lot	Unstabilize	TPConv = T	0.5 fraction
2	Parking Lot	Unstabilize	CE = Contrc	0.63 fraction
2	Parking Lot	Unstabilize	t = year (e.g	0.25 years
2	Parking Lot	Unstabilize	PM10 = 0.3	4.4E-05 lbs
3	Building - 1	Concrete N	V = Volume	4625 yd3
3	Building - 1	Concrete N	PM10 = 0.0	171.1 lbs
3	Building - 1	Material M	sL = Road s	0.1 g/m3
3	Building - 1	Material M	Wt. = Mear	32 tons
3	Building - 1	Material M	VMT = Veh	3225 miles
3	Building - 1	Material M	PM10 = 0.0	29.9 lbs
3	Building - 1	Material M	s = Surface	0.043 fraction
3	Building - 1	Material M	Wt. = Mear	32 tons
3	Building - 1	Material M	VMT = Veh	3325 miles
3	Building - 1	Material M	PM10 = 1.5	91.1 lbs
3	Cargo Aprc	Concrete N	V = Volume	9885.9 yd3
3	Cargo Aprc	Concrete N	PM10 = 0.0	365.8 lbs
3	Cargo Aprc	Material M	s = Surface	0.043 fraction
3	Cargo Aprc	Material M	Wt. = Mear	32 tons
3	Cargo Aprc	Material M	VMT = Veh	7047.2 miles
3	Cargo Aprc	Material M	PM10 = 1.5	193 lbs
3	Cargo Aprc	Material M	sL = Road s	0.1 g/m3
3	Cargo Aprc	Material M	Wt. = Mear	32 tons
3	Cargo Aprc	Material M	VMT = Veh	6450 miles
3	Cargo Aprc	Material M	PM10 = 0.0	59.9 lbs
3	Cargo Aprc	Unstabilize	A = Area af	4.907 acres
3	Cargo Aprc	Unstabilize	TPConv = T	0.5 fraction
3	Cargo Aprc	Unstabilize	CE = Contrc	0.63 fraction
3	Cargo Aprc	Unstabilize	t = year (e.g	0.5 years
3	Cargo Aprc	Unstabilize	PM10 = 0.3	8.62E-05 lbs
3	Cargo Aprc	Soil Handli	u = Wind sp	5 mph
3	Cargo Aprc	Soil Handli	m = Moistu	0.25 fraction
3	Cargo Aprc	Soil Handli	T = Mass ol	5878.1 tons
3	Cargo Aprc	Soil Handli	PM10 = T x	121 lbs
3	Drainage S	Material M	s = Surface	0.043 fraction
3	Drainage S	Material M	Wt. = Mear	32 tons
3	Drainage S	Material M	VMT = Veh	141.1 miles
3	Drainage S	Material M	PM10 = 1.5	3.865 lbs
3	Drainage S	Material M	sL = Road s	0.1 g/m3
3	Drainage S	Material M	Wt. = Mear	32 tons
3	Drainage S	Material M	VMT = Veh	0 miles
3	Drainage S	Material M	PM10 = 0.0	0 lbs
3	Drainage S	Unstabilize	A = Area af	0.275 acres
3	Drainage S	Unstabilize	TPConv = T	0.5 fraction
3	Drainage S	Unstabilize	CE = Contrc	0.63 fraction
3	Drainage S	Unstabilize	t = year (e.g	0.5 years
3	Drainage S	Unstabilize	PM10 = 0.3	4.84E-06 lbs
3	Drainage S	Soil Handli	u = Wind sp	5 mph

ACEIT Input - Default Asphalt Application Rates

3	Drainage Sy	Soil Handlii	m = Moistu	0.25	fraction
3	Drainage Sy	Soil Handlii	T = Mass ol	330	tons
3	Drainage Sy	Soil Handlii	PM10 = T x	6.793	lbs
3	Fuel Tanks	Concrete M	V = Volume	1919.4	yd3
3	Fuel Tanks	Concrete M	PM10 = 0.0	71	lbs
3	Fuel Tanks	Material M	s = Surface	0.043	fraction
3	Fuel Tanks	Material M	Wt. = Mear	32	tons
3	Fuel Tanks	Material M	VMT = Veh	2869.3	miles
3	Fuel Tanks	Material M	PM10 = 1.5	78.6	lbs
3	Fuel Tanks	Material M	sL = Road s	0.1	g/m3
3	Fuel Tanks	Material M	Wt. = Mear	32	tons
3	Fuel Tanks	Material M	VMT = Veh	2580	miles
3	Fuel Tanks	Material M	PM10 = 0.0	23.9	lbs
3	Fuel Tanks	Unstabilize	A = Area af	0.953	acres
3	Fuel Tanks	Unstabilize	TPConv = T	0.5	fraction
3	Fuel Tanks	Unstabilize	CE = Contro	0.63	fraction
3	Fuel Tanks	Unstabilize	t = year (e.g	0.5	years
3	Fuel Tanks	Unstabilize	PM10 = 0.3	1.67E-05	lbs
3	Fuel Tanks	Soil Handlii	u = Wind sp	5	mph
3	Fuel Tanks	Soil Handlii	m = Moistu	0.25	fraction
3	Fuel Tanks	Soil Handlii	T = Mass ol	1141.3	tons
3	Fuel Tanks	Soil Handlii	PM10 = T x	23.5	lbs
3	Parking Lot	Asphalt Dn	A = Area of	33792.4	m2
3	Parking Lot	Asphalt Dn	AR = Applic	1.811	l/m2
3	Parking Lot	Asphalt Dn	VD = Volum	0.35	fraction
3	Parking Lot	Asphalt Dn	EF = Mass f	0.7	fraction
3	Parking Lot	Asphalt Dn	D = Density	1.8	lbs/l
3	Parking Lot	Asphalt Dn	VOC = A x A	26988.3	lbs
3	Parking Lot	Asphalt Stc	T = Mass ol	4396.2	tons
3	Parking Lot	Asphalt Stc	PM10 = (0.	120.5	lbs
3	Parking Lot	Asphalt Stc	CO = (0.4 +	1760.2	lbs
3	Parking Lot	Asphalt Stc	NOx = (0.02	109.9	lbs
3	Parking Lot	Asphalt Stc	SOx = (0.00	20.2	lbs
3	Parking Lot	Asphalt Stc	VOC = (0.00	54.5	lbs
3	Parking Lot	Material M	s = Surface	0.043	fraction
3	Parking Lot	Material M	Wt. = Mear	32	tons
3	Parking Lot	Material M	VMT = Veh	11511.7	miles
3	Parking Lot	Material M	PM10 = 1.5	315.3	lbs
3	Parking Lot	Material M	sL = Road s	0.1	g/m3
3	Parking Lot	Material M	Wt. = Mear	32	tons
3	Parking Lot	Material M	VMT = Veh	10320	miles
3	Parking Lot	Material M	PM10 = 0.0	95.8	lbs
3	Parking Lot	Soil Handlii	u = Wind sp	5	mph
3	Parking Lot	Soil Handlii	m = Moistu	0.25	fraction
3	Parking Lot	Soil Handlii	T = Mass ol	10003.1	tons
3	Parking Lot	Soil Handlii	PM10 = T x	205.9	lbs
3	Parking Lot	Unstabilize	A = Area af	8.351	acres
3	Parking Lot	Unstabilize	TPConv = T	0.5	fraction
3	Parking Lot	Unstabilize	CE = Contro	0.63	fraction
3	Parking Lot	Unstabilize	t = year (e.g	0.5	years
3	Parking Lot	Unstabilize	PM10 = 0.3	0.000147	lbs
3	Taxiways	Asphalt Dn	A = Area of	11194.5	m2
3	Taxiways	Asphalt Dn	AR = Applic	1.811	l/m2
3	Taxiways	Asphalt Dn	VD = Volum	0.35	fraction
3	Taxiways	Asphalt Dn	EF = Mass f	0.7	fraction
3	Taxiways	Asphalt Dn	D = Density	1.8	lbs/l
3	Taxiways	Asphalt Dn	VOC = A x A	8940.5	lbs
3	Taxiways	Asphalt Stc	T = Mass ol	1456.3	tons
3	Taxiways	Asphalt Stc	PM10 = (0.	39.9	lbs
3	Taxiways	Asphalt Stc	CO = (0.4 +	583.1	lbs
3	Taxiways	Asphalt Stc	NOx = (0.02	36.4	lbs
3	Taxiways	Asphalt Stc	SOx = (0.00	6.699	lbs
3	Taxiways	Asphalt Stc	VOC = (0.00	18.1	lbs
3	Taxiways	Material M	s = Surface	0.043	fraction
3	Taxiways	Material M	Wt. = Mear	32	tons
3	Taxiways	Material M	VMT = Veh	4936.6	miles
3	Taxiways	Material M	PM10 = 1.5	135.2	lbs
3	Taxiways	Material M	sL = Road s	0.1	g/m3
3	Taxiways	Material M	Wt. = Mear	32	tons
3	Taxiways	Material M	VMT = Veh	4515	miles
3	Taxiways	Material M	PM10 = 0.0	41.9	lbs
3	Taxiways	Unstabilize	A = Area af	2.766	acres
3	Taxiways	Unstabilize	TPConv = T	0.5	fraction
3	Taxiways	Unstabilize	CE = Contro	0.63	fraction
3	Taxiways	Unstabilize	t = year (e.g	0.5	years
3	Taxiways	Unstabilize	PM10 = 0.3	4.86E-05	lbs
3	Taxiways	Soil Handlii	u = Wind sp	5	mph
3	Taxiways	Soil Handlii	m = Moistu	0.25	fraction
3	Taxiways	Soil Handlii	T = Mass ol	3313.8	tons
3	Taxiways	Soil Handlii	PM10 = T x	68.2	lbs

END

ACEIT Output - Default Asphalt Application Rates

Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 6/8/2018 8:18:22 AM

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STUDY

Study Name

BWI Midfield Improvements

Study Description

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EMISSIONS INVENTORY - SUMMARY

Total Emissions by Year
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Year	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O
2018	6.790534	5.563279	0.049602	1.416916	0.238334	40.4416	3180.471	0.042474	0.033617
2019	19.13248	15.39585	0.081497	2.581742	0.765101	29.28358	9156.849	0.256057	0.045394

Total Emissions by Source Categories
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases Emission: Metric Ton

Year	Emission Sc	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O
2018	NonRoad	1.821256	4.726781	0.01408	0.24476	0.225179	0.810866	2505.014	--	--
2018	OnRoad	2.394228	0.675698	0.005928	0.013806	0.013154	0.070134	675.4571	0.042474	0.033617
2018	Fugitive	2.57505	0.1608	0.029595	1.15835	--	39.5606	--	--	--
2018	TOTAL	6.790534	5.563279	0.049602	1.416916	0.238334	40.4416	3180.471	0.042474	0.033617
2019	NonRoad	6.344513	13.46152	0.042481	0.75599	0.695511	2.619128	7568.053	--	--
2019	OnRoad	11.08826	1.828231	0.019517	0.072822	0.06959	0.550902	1588.796	0.256057	0.045394
2019	Fugitive	1.6997	0.1061	0.0195	1.752929	--	26.11355	--	--	--
2019	TOTAL	19.13248	15.39585	0.081497	2.581742	0.765101	29.28358	9156.849	0.256057	0.045394

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EMISSIONS INVENTORY - DETAILS:

Non-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Scenario ID	Year	Project	Constructic	Equipment	Fuel	HP	Average	Load Facto	Hours of Ac	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	
1	2018	Cargo Apro	Clearing an	Chain Saw	Diesel	11	0.7	31.2	0.077734	0.00035	3.71E-05	0.002582	0.002375	0.017624	0.164804	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	2018	Cargo Apro	Clearing an	Chipper/Sti	Diesel	100	0.43	31.2	0.002854	0.005124	5.26E-06	0.000506	0.000465	0.000588	0.790434	
1	2018	Cargo Apro	Clearing an	Pickup Truc	Diesel	600	0.59	41.6	0.004324	0.013389	4.36E-05	0.000556	0.000512	0.00234	7.899192	
1	2018	Cargo Apro	Concrete P	Air Compre	Diesel	100	0.43	39.5904	0.002583	0.004288	6.33E-06	0.000385	0.000354	0.000459	1.003809	
1	2018	Cargo Apro	Concrete P	Concrete S	Diesel	40	0.59	39.5904	0.000699	0.003587	3.28E-06	0.000103	9.49E-05	0.00019	0.556489	
1	2018	Cargo Apro	Concrete P	Concrete T	Diesel	600	0.59	164.96	0.017147	0.053092	0.000173	0.002205	0.002029	0.009234	31.32333	
1	2018	Cargo Apro	Concrete P	Other Gene	Diesel	175	0.43	79.1808	0.003218	0.011805	1.98E-05	0.000802	0.000738	0.001267	3.160698	
1	2018	Cargo Apro	Concrete P	Pickup Truc	Diesel	600	0.59	118.7712	0.012346	0.038226	0.000124	0.001588	0.001461	0.006653	22.5528	
1	2018	Cargo Apro	Concrete P	Rubber Tire	Diesel	175	0.59	39.5904	0.002861	0.006668	1.34E-05	0.000673	0.00062	0.00081	2.192215	
1	2018	Cargo Apro	Concrete P	Slip Form P	Diesel	175	0.59	39.5904	0.002618	0.006077	1.32E-05	0.000608	0.00056	0.000781	2.19229	
1	2018	Cargo Apro	Concrete P	Surfacing E	Diesel	25	0.59	39.5904	0.001542	0.00287	2.58E-06	0.000227	0.000209	0.000305	0.347294	
1	2018	Cargo Apro	Drainage -	Dozer	Diesel	175	0.59	14.016	0.000785	0.001842	4.55E-06	0.000177	0.000163	0.000269	0.776164	
1	2018	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	14.016	0.001457	0.004511	1.47E-05	0.000187	0.000172	0.000799	2.66142	
1	2018	Cargo Apro	Drainage -	Excavator	Diesel	175	0.59	14.016	0.000606	0.001499	4.41E-06	0.000127	0.000117	0.000252	0.776204	
1	2018	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	14.016	0.001013	0.002361	4.73E-06	0.000238	0.000219	0.000295	0.776099	
1	2018	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	14.016	0.00057	0.00209	3.50E-06	0.000142	0.000131	0.000236	0.559483	
1	2018	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	14.016	0.001457	0.004511	1.47E-05	0.000187	0.000172	0.000799	2.66142	
1	2018	Cargo Apro	Drainage -	Roller	Diesel	100	0.59	14.016	0.001575	0.001594	3.00E-06	0.000205	0.000189	0.000187	0.492501	
1	2018	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	7.786667	0.000809	0.002506	8.16E-06	0.000104	9.58E-05	0.000451	1.478567	
1	2018	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	7.786667	0.000563	0.001312	2.63E-06	0.000132	0.000122	0.000169	0.431166	
1	2018	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	7.786667	0.000316	0.001161	1.94E-06	7.89E-05	7.26E-05	0.000138	0.310824	
1	2018	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	7.786667	0.000809	0.002506	8.16E-06	0.000104	9.58E-05	0.000451	1.478567	
1	2018	Cargo Apro	Drainage -	Tractors/Lc	Diesel	100	0.21	7.786667	0.000821	0.000653	7.50E-07	0.000117	0.000108	0.000164	0.113448	
1	2018	Cargo Apro	Dust Contr	Water Truc	Diesel	600	0.59	480	0.049894	0.154486	0.000503	0.006417	0.005904	0.026838	91.14452	
1	2018	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	65.984	0.003697	0.008674	2.14E-05	0.000834	0.000767	0.001228	3.653996	
1	2018	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	65.984	0.006859	0.021237	6.91E-05	0.000882	0.000812	0.003703	12.52933	
1	2018	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	65.984	0.006859	0.021237	6.91E-05	0.000882	0.000812	0.003703	12.52933	
1	2018	Cargo Apro	Excavation	Roller	Diesel	100	0.59	30.45415	0.003422	0.003464	6.52E-06	0.000446	0.00041	0.000395	1.070113	
1	2018	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	49.488	0.002773	0.006506	1.61E-05	0.000625	0.000575	0.000924	2.740497	
1	2018	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	131.968	0.013718	0.042473	0.000138	0.001764	0.001623	0.00739	25.05867	
1	2018	Cargo Apro	Excavation	Excavator	Diesel	175	0.59	39.5904	0.001712	0.004234	1.25E-05	0.000359	0.00033	0.000698	2.19251	
1	2018	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	39.5904	0.004115	0.012742	4.15E-05	0.000529	0.000487	0.002228	7.5176	
1	2018	Cargo Apro	Excavation	Roller	Diesel	100	0.59	39.5904	0.004448	0.004503	8.47E-06	0.000579	0.000533	0.00051	1.391146	
1	2018	Cargo Apro	Excavation	Scraper	Diesel	600	0.59	49.488	0.013618	0.033213	5.79E-05	0.002075	0.001909	0.003147	9.396065	
1	2018	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	18.63059	0.001044	0.002449	6.05E-06	0.000235	0.000217	0.000354	1.031706	
1	2018	Cargo Apro	Fencing	Concrete T	Diesel	600	0.59	4.755556	0.000494	0.001531	4.98E-06	6.36E-05	5.85E-05	0.000282	0.903006	
1	2018	Cargo Apro	Fencing	Dump Truc	Diesel	600	0.59	19.02222	0.001977	0.006122	1.99E-05	0.000254	0.000234	0.001079	3.612024	
1	2018	Cargo Apro	Fencing	Other Gene	Diesel	175	0.43	19.02222	0.000773	0.002836	4.75E-06	0.000193	0.000177	0.000316	0.759319	
1	2018	Cargo Apro	Fencing	Pickup Truc	Diesel	600	0.59	19.02222	0.001977	0.006122	1.99E-05	0.000254	0.000234	0.001079	3.612024	
1	2018	Cargo Apro	Fencing	Skid Steer L	Diesel	75	0.21	19.02222	0.001619	0.001644	1.42E-06	0.000242	0.000222	0.000342	0.207636	
1	2018	Cargo Apro	Fencing	Tractors/Lc	Diesel	100	0.21	19.02222	0.002007	0.001596	1.83E-06	0.000286	0.000263	0.000354	0.277143	
1	2018	Cargo Apro	Grading	Dozer	Diesel	175	0.59	12.6407	0.000708	0.001662	4.10E-06	0.00016	0.000147	0.000244	0.700004	
1	2018	Cargo Apro	Grading	Grader	Diesel	300	0.59	12.6407	0.000767	0.002479	6.80E-06	0.00013	0.000119	0.000388	1.200071	
1	2018	Cargo Apro	Grading	Roller	Diesel	100	0.59	12.6407	0.00142	0.001438	2.71E-06	0.000185	0.00017	0.000169	0.444175	
1	2018	Cargo Apro	Hydroseedi	Hydroseedi	Diesel	600	0.59	11.388	0.001184	0.003665	1.19E-05	0.000152	0.00014	0.000652	2.162404	
1	2018	Cargo Apro	Hydroseedi	Off-Road Tr	Diesel	600	0.59	11.388	0.001184	0.003665	1.19E-05	0.000152	0.00014	0.000652	2.162404	
1	2018	Cargo Apro	Lighting	Dump Truc	Diesel	600	0.59	9.04	0.00094	0.002909	9.47E-06	0.000121	0.000111	0.000521	1.716555	
1	2018	Cargo Apro	Lighting	Loader	Diesel	175	0.59	9.04	0.000653	0.001523	3.05E-06	0.000154	0.000141	0.000194	0.500566	
1	2018	Cargo Apro	Lighting	Other Gene	Diesel	175	0.43	9.04	0.000367	0.001348	2.26E-06	9.16E-05	8.42E-05	0.000158	0.360854	
1	2018	Cargo Apro	Lighting	Pickup Truc	Diesel	600	0.59	9.04	0.00094	0.002909	9.47E-06	0.000121	0.000111	0.000521	1.716555	
1	2018	Cargo Apro	Lighting	Skid Steer L	Diesel	75	0.21	9.04	0.000769	0.000781	6.75E-07	0.000115	0.000106	0.000173	0.098676	
1	2018	Cargo Apro	Lighting	Tractors/Lc	Diesel	100	0.21	9.04	0.000954	0.000759	8.70E-07	0.000136	0.000125	0.000185	0.131708	
1	2018	Cargo Apro	Markings	Flatbed Tru	Diesel	600	0.59	244.5714	0.025422	0.078715	0.000256	0.00327	0.003008	0.013683	46.4403	
1	2018	Cargo Apro	Markings	Other Gene	Diesel	175	0.43	244.5714	0.00994	0.036463	6.11E-05	0.002478	0.002279	0.003884	9.762675	
1	2018	Cargo Apro	Markings	Pickup Truc	Diesel	600	0.59	244.5714	0.025422	0.078715	0.000256	0.00327	0.003008	0.013683	46.4403	
1	2018	Cargo Apro	Sealing/Fu	Distributing	Diesel	600	0.59	31.672	0.003292	0.010194	3.32E-05	0.000423	0.00039	0.001786	6.014019	
1	2018	Cargo Apro	Sealing/Fu	Other Gene	Diesel	175	0.43	31.672	0.001287	0.004722	7.91E-06	0.000321	0.000295	0.000516	1.264266	
1	2018	Cargo Apro	Sealing/Fu	Pickup Truc	Diesel	600	0.59	31.672	0.003292	0.010194	3.32E-05	0.000423	0.00039	0.001786	6.014019	
1	2018	Cargo Apro	Soil Erosior	Other Gene	Diesel	175	0.43	10.4	0.000423	0.001551	2.60E-06	0.000105	9.69E-05	0.000179	0.415142	
1	2018	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	600	0.59	20.8	0.002162	0.006694	2.18E-05	0.000278	0.000256	0.001178	3.949596	
1	2018	Cargo Apro	Soil Erosior	Pumps	Diesel	11	0.43	10.4	0.000242	0.000255	2.15E-07	2.43E-05	2.23E-05	3.68E-05	0.028943	
1	2018	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	100	0.21	10.4	0.001097	0.000873	1.00E-06	0.000156	0.000144	0.000208	0.151522	
1	2018	Cargo Apro	Subbase Pl	Dozer	Diesel	175	0.59	25.00421	0.001401	0.003287	8.12E-06	0.000316	0.000291	0.000472	1.384658	
1	2018	Cargo Apro	Subbase Pl	Dump Truc	Diesel	600	0.59	175.9556	0.01829	0.056631	0.000184	0.002352	0.002164	0.009848	33.41122	
1	2018	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	600	0.59	25.00421	0.002599	0.008048	2.62E-05	0.000334	0.000308	0.001413	4.74791	
1	2018	Cargo Apro	Subbase Pl	Roller	Diesel	100	0.59	24.36308	0.002737	0.002771	5.21E-06	0.000356	0.000328	0.000317	0.856081	
1	2018	Cargo Apro	Topsoil Pla	Dozer	Diesel	175	0.59	28.09067	0.001574	0.003693	9.12E-06	0.000355	0.000327	0.000529	1.555577	
1	2018	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	600	0.59	28.09067	0.00292	0.009041	2.94E-05	0.000376	0.000346	0.001586	5.33398	
1	2018	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	600	0.59	28.09067	0.00292	0.009041	2.94E-05	0.000376	0.000346	0.001586	5.33398	
1	2018	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	20.18813	0.001335	0.003099	6.71E-06	0.00031	0.000285	0.000404	1.117903	
1	2018	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	72.70906	0.007558	0.023401	7.62E-05	0.000972	0.000894	0.004079	13.80632	
1	2018	Parking Lot	Asphalt Pla	Other Gene	Diesel	175	0.43	40.37625	0.001641	0.00602	1.01E-05	0.000409	0.000376	0.000654	1.611718	
1	2018	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	20.18813	0.002098	0.006497	2.11E-05	0.00027	0.000248	0.001144	3.83341	
1	2018	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	20.18813	0.002268	0.002296	4.32E-06	0.000295	0.000272	0.000265	0.70938	
1	2018	Parking Lot	Asphalt Pla	Skid Steer L	Diesel	75	0.21	20.18813	0.001718	0.001744	1.51E-06	0.000256	0.000236	0.000362	0.220362	
1	2018	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	25.8408	0.001006	0.001873	1.68E-06	0.000148	0.000136	0.000199	0.22668	
1	2018	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	43.2	0.107632	0.000485	5.14E-05	0.003574	0.003288	0.023927	0.22819	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	2018	Parking Lot	Clearing an	Chipper/Sti	Diesel	100	0.43	43.2	0.003951	0.007095	7.29E-06	0.0007	0.000644	0.000812	1.094446	
1	2018	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	57.6	0.005987	0.018538	6.03E-05	0.00077	0.000708	0.003235	10.93734	
1	2018	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	19.4	0.002017	0.006244	2.03E-05	0.000259	0.000239	0.0011	3.683758	
1	2018	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	19.4	0.001283	0.002978	6.45E-06	0.000298	0.000274	0.000389	1.074261	
1	2018	Parking Lot	Curbing	Other Gene	Diesel	175	0.43	19.4	0.000788	0.002892	4.84E-06	0.000197	0.000181	0.000322	0.774399	
1	2018	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	19.4	0.002017	0.006244	2.03E-05	0.000259	0.000239	0.0011	3.683758	
1	2018	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	31.36	0.001757	0.004122	1.02E-05	0.000396	0.000365	0.000589	1.736623	
1	2018	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	31.36	0.00326	0.010093	3.28E-05	0.000419	0.000386	0.001768	5.954775	
1	2018	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	31.36	0.001356	0.003353	9.87E-06	0.000284	0.000261	0.000554	1.736711	
1	2018	Parking Lot	Drainage -	Loader	Diesel	175	0.59	31.36	0.002266	0.005282	1.06E-05	0.000533	0.000491	0.000644	1.736478	
1	2018	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	31.36	0.001275	0.004675	7.83E-06	0.000318	0.000292	0.000511	1.251812	
1	2018	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	31.36	0.00326	0.010093	3.28E-05	0.000419	0.000386	0.001768	5.954775	
1	2018	Parking Lot	Drainage -	Roller	Diesel	100	0.59	31.36	0.003524	0.003567	6.71E-06	0.000459	0.000422	0.000406	1.101943	
1	2018	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	52.26667	0.005433	0.016822	5.47E-05	0.000699	0.000643	0.002936	9.924626	
1	2018	Parking Lot	Drainage -	Loader	Diesel	175	0.59	52.26667	0.003777	0.008804	1.76E-05	0.000889	0.000818	0.001065	2.89413	
1	2018	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	52.26667	0.002124	0.007792	1.30E-05	0.000529	0.000487	0.000842	2.086354	
1	2018	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	52.26667	0.005433	0.016822	5.47E-05	0.000699	0.000643	0.002936	9.924626	
1	2018	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	52.26667	0.005514	0.004386	5.03E-06	0.000785	0.000723	0.000916	0.761497	
1	2018	Parking Lot	Excavation	Dozer	Diesel	175	0.59	89.72533	0.005027	0.011795	2.91E-05	0.001134	0.001043	0.001667	4.96872	
1	2018	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	89.72533	0.009327	0.028878	9.40E-05	0.0012	0.001104	0.00503	17.03744	
1	2018	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	89.72533	0.009327	0.028878	9.40E-05	0.0012	0.001104	0.00503	17.03744	
1	2018	Parking Lot	Excavation	Roller	Diesel	100	0.59	41.41169	0.004653	0.00471	8.86E-06	0.000606	0.000557	0.000533	1.455144	
1	2018	Parking Lot	Excavation	Dozer	Diesel	175	0.59	67.294	0.003771	0.008846	2.18E-05	0.00085	0.000782	0.001253	3.72654	

ACEIT Output - Default Asphalt Application Rates

1	2018	Parking Lot Excavation	Dump Truc	Diesel	600	0.59	179.4507	0.018653	0.057756	0.000188	0.002399	0.002207	0.010044	34.07489	
1	2018	Parking Lot Excavation	Excavator	Diesel	175	0.59	53.8352	0.002328	0.005757	1.70E-05	0.000488	0.000449	0.000946	2.981384	
1	2018	Parking Lot Excavation	Pickup Truc	Diesel	600	0.59	53.8352	0.005596	0.017327	5.64E-05	0.00072	0.000662	0.003024	10.22247	
1	2018	Parking Lot Excavation	Roller	Diesel	100	0.59	53.8352	0.006049	0.006123	1.15E-05	0.000788	0.000725	0.00069	1.891687	
1	2018	Parking Lot Excavation	Scraper	Diesel	600	0.59	67.294	0.018518	0.045163	7.87E-05	0.002822	0.002596	0.004264	12.77681	
1	2018	Parking Lot Excavation	Dozer	Diesel	175	0.59	25.33412	0.001419	0.00333	8.22E-06	0.00032	0.000294	0.000478	1.402928	
1	2018	Parking Lot Fencing	Concrete T	Diesel	600	0.59	10.77778	0.00112	0.003469	1.13E-05	0.000144	0.000133	0.000618	2.046532	
1	2018	Parking Lot Fencing	Dump Truc	Diesel	600	0.59	43.11111	0.004481	0.013875	4.52E-05	0.000576	0.00053	0.002425	8.186128	
1	2018	Parking Lot Fencing	Other Gen	Diesel	175	0.43	43.11111	0.001752	0.006427	1.08E-05	0.000437	0.000402	0.000697	1.720887	
1	2018	Parking Lot Fencing	Pickup Truc	Diesel	600	0.59	43.11111	0.004481	0.013875	4.52E-05	0.000576	0.00053	0.002425	8.186128	
1	2018	Parking Lot Fencing	Skid Steer l	Diesel	75	0.21	43.11111	0.003669	0.003725	3.22E-06	0.000548	0.000504	0.00075	0.470577	
1	2018	Parking Lot Fencing	Tractors/Lc	Diesel	100	0.21	43.11111	0.004548	0.003618	4.15E-06	0.000648	0.000596	0.000762	0.628106	
1	2018	Parking Lot Grading	Dozer	Diesel	175	0.59	17.4048	0.000975	0.002288	5.65E-06	0.00022	0.000202	0.000331	0.963826	
1	2018	Parking Lot Grading	Grader	Diesel	300	0.59	17.4048	0.001056	0.003413	9.36E-06	0.000179	0.000164	0.00053	1.65236	
1	2018	Parking Lot Grading	Roller	Diesel	100	0.59	17.4048	0.001956	0.001979	3.73E-06	0.000255	0.000234	0.000229	0.611578	
1	2018	Parking Lot Hydroseedi	Hydroseed	Diesel	600	0.59	15.68	0.00163	0.005047	1.64E-05	0.00021	0.000193	0.000892	2.977388	
1	2018	Parking Lot Hydroseedi	Off-Road T	Diesel	600	0.59	15.68	0.00163	0.005047	1.64E-05	0.00021	0.000193	0.000892	2.977388	
1	2018	Parking Lot Markings	Flatbed Tru	Diesel	600	0.59	5.12	0.000532	0.001648	5.36E-06	6.85E-05	6.30E-05	0.000302	0.972208	
1	2018	Parking Lot Markings	Other Gen	Diesel	175	0.43	5.12	0.000208	0.000763	1.28E-06	5.19E-05	4.77E-05	9.58E-05	0.204377	
1	2018	Parking Lot Markings	Pickup Truc	Diesel	600	0.59	5.12	0.000532	0.001648	5.36E-06	6.85E-05	6.30E-05	0.000302	0.972208	
1	2018	Parking Lot Sidewalks	Concrete T	Diesel	600	0.59	38.8	0.004033	0.012488	4.06E-05	0.000519	0.000477	0.002184	7.367515	
1	2018	Parking Lot Sidewalks	Dump Truc	Diesel	600	0.59	38.8	0.004033	0.012488	4.06E-05	0.000519	0.000477	0.002184	7.367515	
1	2018	Parking Lot Sidewalks	Pickup Truc	Diesel	600	0.59	38.8	0.004033	0.012488	4.06E-05	0.000519	0.000477	0.002184	7.367515	
1	2018	Parking Lot Sidewalks	Tractors/Lc	Diesel	100	0.21	38.8	0.004093	0.003256	3.74E-06	0.000583	0.000536	0.000689	0.565295	
1	2018	Parking Lot Sidewalks	Vibratory C	Diesel	6	0.43	38.8	0.000491	0.000497	4.38E-07	4.52E-05	4.16E-05	6.92E-05	0.058909	
1	2018	Parking Lot Soil Erosior	Other Gen	Diesel	175	0.43	14.4	0.000585	0.002147	3.59E-06	0.000146	0.000134	0.000243	0.574812	
1	2018	Parking Lot Soil Erosior	Pickup Truc	Diesel	600	0.59	28.8	0.002994	0.009269	3.02E-05	0.000385	0.000354	0.001625	5.468671	
1	2018	Parking Lot Soil Erosior	Pumps	Diesel	11	0.43	14.4	0.000335	0.000353	2.98E-07	3.36E-05	3.09E-05	5.06E-05	0.040075	
1	2018	Parking Lot Soil Erosior	Tractors/Lc	Diesel	100	0.21	14.4	0.001519	0.001208	1.39E-06	0.000216	0.000199	0.000276	0.2098	
1	2018	Parking Lot Street Light	Dump Truc	Diesel	600	0.59	9.6	0.000998	0.00309	1.01E-05	0.000128	0.000118	0.000552	1.82289	
1	2018	Parking Lot Street Light	Loader	Diesel	175	0.59	9.6	0.000694	0.001617	3.24E-06	0.000163	0.00015	0.000206	0.531575	
1	2018	Parking Lot Street Light	Other Gen	Diesel	175	0.43	9.6	0.00039	0.001431	2.40E-06	9.72E-05	8.95E-05	0.000167	0.383208	
1	2018	Parking Lot Street Light	Pickup Truc	Diesel	600	0.59	9.6	0.000998	0.00309	1.01E-05	0.000128	0.000118	0.000552	1.82289	
1	2018	Parking Lot Street Light	Skid Steer l	Diesel	75	0.21	9.6	0.000817	0.000829	7.16E-07	0.000122	0.000112	0.000183	0.104788	
1	2018	Parking Lot Street Light	Tractors/Lc	Diesel	100	0.21	9.6	0.001013	0.000806	9.24E-07	0.000144	0.000133	0.000194	0.139867	
1	2018	Parking Lot Subbase Pl	Dozer	Diesel	175	0.59	34.00105	0.001905	0.00447	1.10E-05	0.00043	0.000395	0.000638	1.882876	
1	2018	Parking Lot Subbase Pl	Dump Truc	Diesel	600	0.59	239.2667	0.024871	0.077007	0.000251	0.003199	0.002943	0.013386	45.43301	
1	2018	Parking Lot Subbase Pl	Pickup Truc	Diesel	600	0.59	34.00105	0.003534	0.010943	3.56E-05	0.000455	0.000418	0.001916	6.45627	
1	2018	Parking Lot Subbase Pl	Roller	Diesel	100	0.59	33.12923	0.003722	0.003768	7.09E-06	0.000485	0.000446	0.000428	1.164111	
1	2018	Parking Lot Topsoil Pla	Dozer	Diesel	175	0.59	38.67733	0.002167	0.005084	1.26E-05	0.000489	0.00045	0.000724	2.141835	
1	2018	Parking Lot Topsoil Pla	Dump Truc	Diesel	600	0.59	38.67733	0.00402	0.012448	4.05E-05	0.000517	0.000476	0.002177	7.344223	
1	2018	Parking Lot Topsoil Pla	Pickup Truc	Diesel	600	0.59	38.67733	0.00402	0.012448	4.05E-05	0.000517	0.000476	0.002177	7.344223	
1	2018	Parking Lot Tree Planti	Flatbed Tru	Diesel	600	0.59	0	0	0	0	0	0	1.58E-05	0	
1	2018	Parking Lot Tree Planti	Other Gen	Diesel	175	0.43	0	0	0	0	0	0	1.48E-05	0	
1	2018	Parking Lot Tree Planti	Pickup Truc	Diesel	600	0.59	0	0	0	0	0	0	1.58E-05	0	
1	2018	Parking Lot Tree Planti	Tractors/Lc	Diesel	100	0.21	0	0	0	0	0	0	3.20E-05	0	
1	2018	Rehabilitat Asphalt Pla	Asphalt Pa	Diesel	175	0.59	127.4766	0.00843	0.019567	4.24E-05	0.001959	0.001802	0.002491	7.058928	
1	2018	Rehabilitat Asphalt Pla	Dump Truc	Diesel	600	0.59	459.1167	0.047724	0.147765	0.000481	0.006138	0.005647	0.025671	87.17911	
1	2018	Rehabilitat Asphalt Pla	Other Gen	Diesel	175	0.43	254.9533	0.010362	0.038011	6.36E-05	0.002583	0.002376	0.004048	10.17709	
1	2018	Rehabilitat Asphalt Pla	Pickup Truc	Diesel	600	0.59	127.4766	0.013251	0.041028	0.000134	0.001704	0.001568	0.007139	24.20582	
1	2018	Rehabilitat Asphalt Pla	Roller	Diesel	100	0.59	127.4766	0.014323	0.014498	2.73E-05	0.001865	0.001716	0.001622	4.479335	
1	2018	Rehabilitat Asphalt Pla	Skid Steer l	Diesel	75	0.21	127.4766	0.01085	0.011015	9.51E-06	0.001619	0.00149	0.002179	1.391464	
1	2018	Rehabilitat Asphalt Pla	Surfacing E	Diesel	25	0.59	163.1701	0.006355	0.011827	1.06E-05	0.000936	0.000861	0.001255	1.431358	
1	2018	Rehabilitat Cold Millin	Cold Planer	Diesel	175	0.59	203.9626	0.013488	0.031307	6.78E-05	0.003134	0.002884	0.003978	11.29429	
1	2018	Rehabilitat Cold Millin	Dump Truc	Diesel	600	0.59	203.9626	0.021201	0.065645	0.000214	0.002727	0.002509	0.011413	38.72932	
1	2018	Rehabilitat Cold Millin	Pickup Truc	Diesel	600	0.59	203.9626	0.021201	0.065645	0.000214	0.002727	0.002509	0.011413	38.72932	
1	2018	Rehabilitat Cold Millin	Sweepers	Diesel	175	0.43	203.9626	0.005817	0.020329	4.81E-05	0.001384	0.001273	0.002752	8.143008	
1	2018	Rehabilitat Cold Millin	Water Truc	Diesel	600	0.59	203.9626	0.021201	0.065645	0.000214	0.002727	0.002509	0.011413	38.72932	
1	2018	Rehabilitat Dust Contr	Water Truc	Diesel	600	0.59	480	0.049894	0.154486	0.000503	0.006417	0.005904	0.026838	91.14452	
1	2018	Rehabilitat Excavation	Dozer	Diesel	175	0.59	67.9872	0.003809	0.008937	2.21E-05	0.000859	0.00079	0.001265	3.764928	
1	2018	Rehabilitat Excavation	Dump Truc	Diesel	600	0.59	226.624	0.023557	0.072938	0.000237	0.00303	0.002788	0.01268	43.03237	
1	2018	Rehabilitat Excavation	Excavator	Diesel	175	0.59	67.9872	0.00294	0.00727	2.14E-05	0.000616	0.000567	0.001193	3.765119	
1	2018	Rehabilitat Excavation	Pickup Truc	Diesel	600	0.59	67.9872	0.007067	0.021881	7.12E-05	0.000909	0.000836	0.003815	12.90971	
1	2018	Rehabilitat Excavation	Roller	Diesel	100	0.59	67.9872	0.007639	0.007732	1.46E-05	0.000995	0.000915	0.000869	2.388967	
1	2018	Rehabilitat Excavation	Dozer	Diesel	175	0.59	31.9942	0.001793	0.004206	1.04E-05	0.000404	0.000372	0.000601	1.771743	
1	2018	Rehabilitat Grading	Dozer	Diesel	175	0.59	21.2698	0.001192	0.002796	6.90E-06	0.000269	0.000247	0.000403	1.177858	
1	2018	Rehabilitat Grading	Grader	Diesel	300	0.59	21.2698	0.001291	0.004171	1.14E-05	0.000218	0.000201	0.000645	2.019292	
1	2018	Rehabilitat Grading	Roller	Diesel	100	0.59	21.2698	0.00239	0.002419	4.55E-06	0.000311	0.000286	0.000278	0.747388	
1	2018	Rehabilitat Hydroseedi	Hydroseed	Diesel	600	0.59	2.12698	0.000221	0.000685	2.23E-06	2.84E-05	2.62E-05	0.000135	0.40388	
1	2018	Rehabilitat Hydroseedi	Off-Road T	Diesel	600	0.59	2.12698	0.000221	0.000685	2.23E-06	2.84E-05	2.62E-05	0.000135	0.40388	
1	2018	Rehabilitat Lighting	Dump Truc	Diesel	600	0.59	52.33333	0.00544	0.016843	5.48E-05	0.0007	0.000644	0.00294	9.937285	
1	2018	Rehabilitat Lighting	Loader	Diesel	175	0.59	52.33333	0.003781	0.008815	1.76E-05	0.00089	0.000819	0.001066	2.897822	
1	2018	Rehabilitat Lighting	Other Gen	Diesel	175	0.43	52.33333	0.002127	0.007802	1.31E-05	0.00053	0.000488	0.000843	2.089015	
1	2018	Rehabilitat Lighting	Pickup Truc	Diesel	600	0.59	52.33333	0.00544	0.016843	5.48E-05	0.0007	0.000644	0.00294	9.937285	
1	2018	Rehabilitat Lighting	Skid Steer l	Diesel	75	0.21	52.33333	0.004454	0.004522	3.90E-06	0.000665	0.000612	0.000906	0.571241	
1	2018	Rehabilitat Lighting	Tractors/Lc	Diesel	100	0.21	52.33333	0.005521	0.004392	5.04E-06	0.000786	0.000724	0.000918	0.762468	
1	2018	Rehabilitat Markings	Flatbed Tru	Diesel	600	0.59	2100	0.218288	0.675878	0.002199	0.028077	0.02583	0.117364	398.7573	
1	2018	Rehabilitat Markings	Other Gen	Diesel	175	0.43	2100	0.085351	0.313088	0.000524	0.021273	0.019571	0.033239	83.82671	
1	2018	Rehabilitat Markings	Pickup Truc	Diesel	600	0.59	2100	0.218288	0.675878	0.002199	0.028077	0.02583	0.117364	398.7573	
1	2018	Rehabilitat Sealing Rar	Crack Clear	Diesel	40	0.59	10.5	0.000185	0.000951	8.70E-07	2.74E-05	2.52E-05	5.04E-05	0.14759	
1	2018	Rehabilitat Sealing Rar	Crack Filler	Diesel	100	0.43	10.5	0.000135	0.00014	1.42E-06	5.72E-06	5.26E-06	6.98E-05	0.26636	
1	2018	Rehabilitat Sealing Rar	Flatbed Tru	Diesel	600	0.59	10.5	0.001091	0.003379	1.10E-05	0.00014	0.000129	0.000603	1.993786	
1	2018	Rehabilitat Sealing Rar	Other Gen	Diesel	175	0.43	10.5	0.000427	0.001565	2.62E-06	0.000106	9.79E-05	0.000181	0.419134	
1	2018	Rehabilitat Sealing Rar	Pickup Truc	Diesel	600	0.59	10.5	0.001091	0.003379	1.10E-05	0.00014	0.000129	0.000603	1.993786	
1	2018	Rehabilitat Soil Erosior	Other Gen	Diesel	175	0.43	17.6	0.000715	0.002624	4.39E-06	0.000178	0.000164	0.000293	0.702548	
1	2018	Rehabilitat Soil Erosior	Pickup Truc	Diesel	600	0.59	35.2	0.003659	0.011329	3.69E-05	0.000471	0.000433	0.001983	6.683932	
1	2018	Rehabilitat Soil Erosior	Pumps	Diesel	11	0.43	17.6	0.00041	0.000432	3.64E-07	4.11E-05	3.78E-05	6.16E-05	0.04898	
1	2018	Rehabilitat Soil Erosior	Tractors/Lc	Diesel	100	0.21	17.6	0.001857	0.001477	1.69E-06	0.000264	0.000243	0.00033	0.256422	
1	2018	Rehabilitat Subbase Pl	Dozer	Diesel	175	0.59	214.6975	0.01203	0.028223	6.97E-05	0.002713	0.002496	0.003974	11.8893	
1	2018	Rehabilitat Subbase Pl	Dump Truc	Diesel	600	0.59	1510.836	0.157046	0.486258	0.001582	0.0202	0.018584	0.084442	286.8841	
1	2018	Rehabilitat Subbase Pl	Pickup Truc	Diesel	600	0.59	214.6975	0.022317	0.0691	0.000225	0.00287	0.002641	0.012013	40.76771	
1	2018	Rehabilitat Subbase Pl	Roller	Diesel	100	0.59	209.1926	0.023505	0.023792	4.48E-05	0.003061	0.002816	0.002656	7.35071	
1	2018	Rehabilitat Topsoil Pla	Dozer	Diesel	175	0.59	47.26667	0.002648	0.006213	1.53E-05	0.000597	0.000549	0.000883	2.617486	
1	2018	Rehabilitat Topsoil Pla	Dump Truc	Diesel	600	0.59	47.26667	0.004913	0.015213	4.95E-05	0.000632	0.000581	0.002657	8.975204	
1	2018	Rehabilitat Topsoil Pla	Pickup Truc	Diesel	600	0.59	47.26667	0.004913	0.015213	4.95E-05	0.000632	0.000581	0.002657	8.975204	
2	2019	Building - 1 Concrete Fo	Backhoe	Diesel	100	0.21	480	0.047376	0.037218	4.55E-05	0.006651	0.006119	0.007548	6.995043	
2	2019	Building - 1 Concrete Fo	Concrete P	Diesel	11	0.43	180	0.004188	0.004365	3.72E-06	0.000406	0.000374	0.000612	0.500961	
2	2019	Building - 1 Concrete Fo	Concrete R	Diesel	600	0.59	360	0.034144	0.102066	0.000375	0.004186	0.003851	0.020029	68.35869	
2	2019	Building - 1 Concrete Fo	Excavator	Diesel	175	0.59	160	0.006121	0.014939	4.98E-05	0.001217	0.00112	0.002751	8.860904	
2	2019	Building - 1 Concrete Fo	Fork Truck	Diesel	100	0.59	480	0.015196	0.013885	9.06E-05	0.000804	0.000739	0.004401	16.87107	
2	2019	Building - 1 Concrete Fo	Tool Truck	Diesel	600	0.59	120	0.011381	0.034022	0.000125	0.001395	0.001284	0.006689	22.78623	
2	2019	Building - 1 Concrete Fo	Tractor Tra	Diesel	600	0.59	240	0.022763	0.068044	0.00025	0.002791	0.002568	0.013359	45.57246	
2	2019	Building - 1 Constructic	Survey Cre	Diesel	600	0.59	10	0.000948	0.002835	1.04E-05	0.000116	0.000107	0.000575	1.898852	
2	2019	Building - 1 Constructic	Tractor Tra	Diesel	600	0.59	4	0.000379	0.001134	4.16E-06	4.65E-05	4.28E-05	0.000242	0.759541	
2	2019	Building - 1 Exterior Wa	Fork Truck	Diesel	100	0.59	840	0.026593	0.024298	0.000159	0.001406	0.001294	0.007701	29.52437	
2	2019	Building - 1 Exterior Wa	Generator	Diesel	40	0.43	80	0.001952	0.006305	5.28E-06	0.000377	0.000347	0.00052	0.81093	
2	2019	Building - 1 Exterior Wa	Grout Mixe	Diesel	600	0.59	420	0.176511	0.412766	0.000511	0.025156	0.023143	0.032602	79.72656	
2	2019	Building - 1 Exterior Wa	Grout Whe	Diesel	600	0.59	160	0.015175	0.045363	0.000166	0.001861	0.001712	0.008913	30.38164	
2	2019	Building - 1 Exterior Wa	Man Lift	Diesel	75	0.21	1680	0.12289	0.143431	0.000124	0.017009	0.015649	0.02476	18.34812	
2	2019	Building - 1 Exterior Wa	Tool Truck	Diesel	600	0.59	420	0.039834	0.119077	0.000437	0.004884	0.004493	0.023364	79.7518	
2	2019	Building - 1 Exterior Wa	Tractor Tra	Diesel	600	0.59	840	0.079669	0.238155	0.000874	0.009768	0.008986	0.046708	159.5036	
2	2019	Building - 1 Exterior Wa	Truck Towe	Diesel	300	0.43	80	0.003172	0.01437	3.22E-05	0.000627	0.000577	0.001869	5.47528	
2	2019	Building - 1 Interior Bui	Fork Truck	Diesel	100	0.59	1600	0.050653	0.046282	0.000302	0.002679	0.002464	0.014667	56.23689	
2	2019	Building - 1 Interior Bui	Man Lift	Diesel	75	0.21	3200	0.234076	0.273201	0.000236	0.032399	0.029807	0.047149	34.94879	
2	2019	Building - 1 Interior Bui	Tool Truck	Diesel	600	0.59	1600	0.15175	0.453628	0.001665	0.018605	0.017117	0.088951	303.8164	
2	2019	Building - 1 Interior Bui	Tractor Tra	Diesel	600	0.59	1600	0.15175	0.453628	0.001665	0.018605	0.017117	0.088951	303.8164	
2	2019	Building - 1 Roofing	High Lift	Diesel	100	0.59	160	0.005065	0.004628	3.02E-05	0.000268	0.000246	0.001468	5.623689	
2	2019	Building - 1 Roofing	Man Lift	Diesel	75	0.21	40	0.002926	0.003415	2.95E-06	0.000405	0.000373	0.000604	0.43686	
2	2019	Building - 1 Roofing	Material De	Diesel	600	0.59	60	0.005691	0.017011	6.24E-05	0.000698	0.000642	0.003354	11.39311	
2	2019	Building - 1 Roofing	Tractor Tra	Diesel	600	0.59	40	0.003794	0.011341	4.16E-05	0.000465	0.000428	0.002243	7.59541	
2	2019	Building - 1 Roofing	Truck Towe	Diesel	300	0.43	120	0.004758	0.021555	4.83E-05	0.000941	0.000866	0.002794	8.21292	
2	2019	Building - 1 Security & S	High Lift	Diesel	100	0.59	800	0.025326	0.023141	0.000151	0.001339	0.001232	0.007334	28.11845	
2	2019	Building - 1 Security & S	Tool Truck	Diesel	600	0.59	800	0.075875	0.226814	0.000832	0.009303	0.008558	0.044485	151.9082	
2	2019	Building - 1 Structural S	90 Ton Cra	Diesel	300	0.43	240	0.009515	0.043111	9.65E-05	0.001882	0.001732	0.005566	16.42584	
2	2019	Building - 1 Structural S	Concrete P	Diesel	11	0.43	60	0.001396	0.001455	1.24E-06	0.000135	0.000125	0.000205	0.166987	
2	2019	Building - 1 Structural S	Concrete T	Diesel	600	0.59	60	0.005691	0.017011	6.24E-05	0.000698	0.000642	0.003354	11.39311	
2	2019	Building - 1 Structural S	Fork Truck	Diesel	100	0.59	640	0.020261	0.018513	0.000121	0.001071	0.000986	0.005868	22.49476	
2	2019	Building - 1 Structural S	Tool Truck	Diesel	600	0.59	160	0.015175	0.045363	0.000166	0.001861	0.001712	0.008913	30.38164	
2	2019	Building - 1 Structural S	Tractor Tra	Diesel	600	0.59	360	0.034144	0.102066	0.000375	0.004186	0.003851	0.020029	68.35869	
2	2019	Building - 1 Structural S	Trowel Ma	Diesel	600	0.59	40	0.016811	0.039311	4.87E-05	0.002396	0.002204	0.00317	7.593005	
2	2019	Building - 1 Structural S	Truck Towe	Diesel	300	0.43	720	0.028546	0.129333	0.00029	0.005647	0.005196	0.016657	49.27752	
2	2019	Cargo Apro	Clearing an	Chain Saw	Diesel	11	0.7	46.8	0.116601	0.000526	5.57E-05	0.003872	0.003563	0.02645	0.247206 *** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	2019	Cargo Apro	Clearing an	Chipper/St	Diesel	100	0.43	46.8	0.004023	0.007186	7.79E-06	0.000706	0.000649	0.000831	1.185788
2	2019	Cargo Apro	Clearing an	Pickup Truc	Diesel	600	0.59	62.4	0.005918	0.017692	6.49E-05	0.000726	0.000668	0.003488	11.84884
2	2019	Cargo Apro	Concrete P	Air Compre	Diesel	100	0.43	59.3848	0.003492	0.005741	9.32E-06	0.000511	0.00047	0.000646	1.505804
2	2019	Cargo Apro	Concrete P	Concrete S	Diesel	40	0.59	59.3848	0.000928	0.00525	4.83E-06	0.000133	0.000122	0.000272	0.834757
2	2019	Cargo Apro	Concrete P	Concrete T	Diesel	600	0.59	247.4367	0.023468	0.070153	0.000257	0.002877	0.002647	0.013772	46.98457
2	2019	Cargo Apro	Concrete P	Other Gen	Diesel	175	0.43	118.7696	0.004304	0.015754	2.91E-05	0.001057	0.000972	0.001824	4.741187
2	2019	Cargo Apro	Concrete P	Pickup Truc	Diesel	600	0.59	178.1544	0.016897	0.05051	0.000185	0.002072	0.001906	0.009922	33.82889
2	2019	Cargo Apro	Concrete P	Rubber Tir	Diesel	175	0.59	59.3848	0.003761	0.008774	1.96E-05	0.000861	0.000792	0.00117	3.288392
2	2019	Cargo Apro	Concrete P	Slip Form P	Diesel	175	0.59	59.3848	0.00344	0.00795	1.94E-05	0.000775	0.000713	0.001133	3.288491
2	2019	Cargo Apro	Concrete P	Surfacing E	Diesel	25	0.59	59.3848	0.002305	0.004305	3.87E-06	0.000341	0.000314	0.000457	0.520935
2	2019	Cargo Apro	Drainage -	Dozer	Diesel	175	0.59	20.864	0.001025	0.002387	6.66E-06	0.000222	0.000205	0.000388	1.155413
2	2019	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	20.864	0.001979	0.005915	2.17E-05	0.000243	0.000223	0.001179	3.961766
2	2019	Cargo Apro	Drainage -	Excavator	Diesel	175	0.59	20.864	0.000798	0.001948	6.49E-06	0.000159	0.000146	0.000367	1.155462
2	2019	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	20.864	0.001321	0.003083	6.89E-06	0.000303	0.000278	0.000421	1.15533
2	2019	Cargo Apro	Drainage -	Other Gen	Diesel	175	0.43	20.864	0.000756	0.002768	5.10E-06	0.000186	0.000171	0.000336	0.832874
2	2019	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	20.864	0.001979	0.005915	2.17E-05	0.000243	0.000223	0.001179	3.961766
2	2019	Cargo Apro	Drainage -	Roller	Diesel	100	0.59	20.864	0.002057	0.002073	4.38E-06	0.000259	0.000238	0.000263	0.733163
2	2019	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	11.59111	0.001099	0.003286	1.21E-05	0.000135	0.000124	0.000664	2.200981
2	2019	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	11.59111	0.000734	0.001713	3.83E-06	0.000168	0.000155	0.000241	0.64185
2	2019	Cargo Apro	Drainage -	Other Gen	Diesel	175	0.43	11.59111	0.00042	0.001538	2.84E-06	0.000103	9.49E-05	0.000195	0.462708
2	2019	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	11.59111	0.001099	0.003286	1.21E-05	0.000135	0.000124	0.000664	2.200981

ACEIT Output - Default Asphalt Application Rates

2	2019	Cargo Apro	Drainage -	Tractors/Lc	Diesel	100	0.21	11.59111	0.001144	0.000899	1.10E-06	0.000161	0.000148	0.000225	0.168917
2	2019	Cargo Apro	Dust Contr	Water Truc	Diesel	600	0.59	720	0.068288	0.204133	0.000749	0.008372	0.007703	0.040039	136.7174
2	2019	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	98.97467	0.004861	0.011323	3.16E-05	0.001055	0.000971	0.001793	5.48105
2	2019	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	98.97467	0.009387	0.028061	0.000103	0.001151	0.001059	0.005521	18.79383
2	2019	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	98.97467	0.009387	0.028061	0.000103	0.001151	0.001059	0.005521	18.79383
2	2019	Cargo Apro	Excavation	Roller	Diesel	100	0.59	45.68062	0.004503	0.004538	9.58E-06	0.000567	0.000521	0.000563	1.605221
2	2019	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	74.231	0.003646	0.008492	2.37E-05	0.000791	0.000728	0.001348	4.110787
2	2019	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	197.9493	0.018774	0.056122	0.000206	0.002302	0.002118	0.011022	37.58766
2	2019	Cargo Apro	Excavation	Excavator	Diesel	175	0.59	59.3848	0.002272	0.005545	1.85E-05	0.000452	0.000416	0.001027	3.288769
2	2019	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	59.3848	0.005632	0.016837	6.18E-05	0.000691	0.000635	0.00332	11.2763
2	2019	Cargo Apro	Excavation	Roller	Diesel	100	0.59	59.3848	0.005854	0.0059	1.25E-05	0.000737	0.000678	0.000728	2.086787
2	2019	Cargo Apro	Excavation	Scraper	Diesel	600	0.59	74.231	0.018108	0.044523	8.51E-05	0.002722	0.002504	0.004617	14.09417
2	2019	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	27.94588	0.001373	0.003197	8.92E-06	0.000298	0.000274	0.000515	1.547596
2	2019	Cargo Apro	Fencing	Concrete T	Diesel	600	0.59	7.133333	0.000677	0.002022	7.42E-06	8.29E-05	7.63E-05	0.000416	1.354515
2	2019	Cargo Apro	Fencing	Dump Truc	Diesel	600	0.59	28.53333	0.002706	0.00809	2.97E-05	0.000332	0.000305	0.001605	5.418059
2	2019	Cargo Apro	Fencing	Other Gen	Diesel	175	0.43	28.53333	0.001034	0.003785	6.98E-06	0.000254	0.000234	0.000453	1.139028
2	2019	Cargo Apro	Fencing	Pickup Truc	Diesel	600	0.59	28.53333	0.002706	0.00809	2.97E-05	0.000332	0.000305	0.001605	5.418059
2	2019	Cargo Apro	Fencing	Skid Steer l	Diesel	75	0.21	28.53333	0.00228	0.00239	2.10E-06	0.000337	0.00031	0.000477	0.311548
2	2019	Cargo Apro	Fencing	Tractors/Lc	Diesel	100	0.21	28.53333	0.002816	0.002212	2.71E-06	0.000395	0.000364	0.00049	0.415816
2	2019	Cargo Apro	Grading	Dozer	Diesel	175	0.59	18.8167	0.000924	0.002153	6.01E-06	0.000201	0.000185	0.000351	1.042037
2	2019	Cargo Apro	Grading	Grader	Diesel	300	0.59	18.8167	0.001017	0.00323	1.00E-05	0.000166	0.000152	0.000565	1.786427
2	2019	Cargo Apro	Grading	Roller	Diesel	100	0.59	18.8167	0.001855	0.001869	3.95E-06	0.000233	0.000215	0.000239	0.661221
2	2019	Cargo Apro	Hydroseedi	Hydroseed	Diesel	600	0.59	16.952	0.001608	0.004806	1.76E-05	0.000197	0.000181	0.000962	3.218935
2	2019	Cargo Apro	Hydroseedi	Off-Road T	Diesel	600	0.59	16.952	0.001608	0.004806	1.76E-05	0.000197	0.000181	0.000962	3.218935
2	2019	Cargo Apro	Lighting	Dump Truc	Diesel	600	0.59	11.89333	0.001128	0.003372	1.24E-05	0.000138	0.000127	0.00068	2.258368
2	2019	Cargo Apro	Lighting	Loader	Diesel	175	0.59	11.89333	0.000753	0.001757	3.93E-06	0.000173	0.000159	0.000247	0.658585
2	2019	Cargo Apro	Lighting	Other Gen	Diesel	175	0.43	11.89333	0.000431	0.001578	2.91E-06	0.000106	9.73E-05	0.0002	0.474772
2	2019	Cargo Apro	Lighting	Pickup Truc	Diesel	600	0.59	11.89333	0.001128	0.003372	1.24E-05	0.000138	0.000127	0.00068	2.258368
2	2019	Cargo Apro	Lighting	Skid Steer l	Diesel	75	0.21	11.89333	0.000951	0.000996	8.77E-07	0.00014	0.000129	0.000215	0.12986
2	2019	Cargo Apro	Lighting	Tractors/Lc	Diesel	100	0.21	11.89333	0.001174	0.000922	1.13E-06	0.000165	0.000152	0.00023	0.173322
2	2019	Cargo Apro	Markings	Flatbed Tru	Diesel	600	0.59	366.8571	0.034794	0.104011	0.000382	0.004266	0.003925	0.02041	69.66076
2	2019	Cargo Apro	Markings	Other Gen	Diesel	175	0.43	366.8571	0.013293	0.048662	8.97E-05	0.003264	0.003002	0.005594	14.64464
2	2019	Cargo Apro	Markings	Pickup Truc	Diesel	600	0.59	366.8571	0.034794	0.104011	0.000382	0.004266	0.003925	0.02041	69.66076
2	2019	Cargo Apro	Sealing/Fu	Distributing	Diesel	600	0.59	47.508	0.004506	0.013469	4.94E-05	0.000552	0.000508	0.00266	9.021068
2	2019	Cargo Apro	Sealing/Fu	Other Gen	Diesel	175	0.43	47.508	0.001721	0.006302	1.16E-05	0.000423	0.000389	0.000741	1.896481
2	2019	Cargo Apro	Sealing/Fu	Pickup Truc	Diesel	600	0.59	47.508	0.004506	0.013469	4.94E-05	0.000552	0.000508	0.00266	9.021068
2	2019	Cargo Apro	Soil Erosior	Other Gen	Diesel	175	0.43	15.6	0.000565	0.002069	3.82E-06	0.000139	0.000128	0.000256	0.622739
2	2019	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	600	0.59	31.2	0.002959	0.008846	3.25E-05	0.000363	0.000334	0.001754	5.924419
2	2019	Cargo Apro	Soil Erosior	Pumps	Diesel	11	0.43	15.6	0.000363	0.000378	3.23E-07	3.52E-05	3.24E-05	5.41E-05	0.043417
2	2019	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	100	0.21	15.6	0.00154	0.00121	1.48E-06	0.000216	0.000199	0.000288	0.227339
2	2019	Cargo Apro	Subbase Pl	Dozer	Diesel	175	0.59	37.50632	0.001842	0.004291	1.20E-05	0.0004	0.000368	0.000687	2.077036
2	2019	Cargo Apro	Subbase Pl	Dump Truc	Diesel	600	0.59	263.9333	0.025032	0.07483	0.000275	0.003069	0.002824	0.014689	50.11704
2	2019	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	600	0.59	37.50632	0.003557	0.010634	3.90E-05	0.000436	0.000401	0.002104	7.121896
2	2019	Cargo Apro	Subbase Pl	Roller	Diesel	100	0.59	36.54462	0.003602	0.003631	7.66E-06	0.000453	0.000417	0.000453	1.284181
2	2019	Cargo Apro	Topsoil Pla	Dozer	Diesel	175	0.59	41.81467	0.002054	0.004784	1.34E-05	0.000446	0.00041	0.000765	2.315626
2	2019	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	600	0.59	41.81467	0.003966	0.011855	4.35E-05	0.000486	0.000447	0.002344	7.939988
2	2019	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	600	0.59	41.81467	0.003966	0.011855	4.35E-05	0.000486	0.000447	0.002344	7.939988
2	2019	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	30.28225	0.001754	0.004054	9.88E-06	0.000395	0.000364	0.000585	1.676909
2	2019	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	109.0638	0.010344	0.030922	0.000113	0.001268	0.001167	0.006081	20.70961
2	2019	Parking Lot	Asphalt Pla	Other Gen	Diesel	175	0.43	60.5645	0.002195	0.008034	1.48E-05	0.000539	0.000496	0.00094	2.417686
2	2019	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	30.28225	0.002872	0.008586	3.15E-05	0.000352	0.000324	0.001703	5.750152
2	2019	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	30.28225	0.002985	0.003009	6.35E-06	0.000376	0.000346	0.000377	1.064121
2	2019	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	75	0.21	30.28225	0.00242	0.002537	2.23E-06	0.000358	0.000329	0.000505	0.330644
2	2019	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	38.76128	0.001504	0.00281	2.53E-06	0.000222	0.000205	0.000298	0.340022
2	2019	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	64.8	0.161448	0.000728	7.71E-05	0.005362	0.004933	0.035906	0.342285 *** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	2019	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	64.8	0.00557	0.00995	1.08E-05	0.000977	0.000899	0.001149	1.64186
2	2019	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	86.4	0.008195	0.024496	8.99E-05	0.001005	0.000924	0.004822	16.40608
2	2019	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	29.1	0.00276	0.00825	3.03E-05	0.000338	0.000311	0.001637	5.52566
2	2019	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	29.1	0.001686	0.003896	9.49E-06	0.00038	0.000349	0.000563	1.611441
2	2019	Parking Lot	Curbing	Other Gen	Diesel	175	0.43	29.1	0.001054	0.00386	7.12E-06	0.000259	0.000238	0.000461	1.161649
2	2019	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	29.1	0.00276	0.00825	3.03E-05	0.000338	0.000311	0.001637	5.52566
2	2019	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	46.88	0.002303	0.005363	1.50E-05	0.0005	0.00046	0.000856	2.596135
2	2019	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	46.88	0.004446	0.013291	4.88E-05	0.000545	0.000502	0.002625	8.90182
2	2019	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	46.88	0.001793	0.004377	1.46E-05	0.000357	0.000328	0.000813	2.596245
2	2019	Parking Lot	Drainage -	Loader	Diesel	175	0.59	46.88	0.002969	0.006927	1.55E-05	0.00068	0.000626	0.000927	2.595948
2	2019	Parking Lot	Drainage -	Other Gen	Diesel	175	0.43	46.88	0.001699	0.006218	1.15E-05	0.000417	0.000384	0.000732	1.871412
2	2019	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	46.88	0.004446	0.013291	4.88E-05	0.000545	0.000502	0.002625	8.90182
2	2019	Parking Lot	Drainage -	Roller	Diesel	100	0.59	46.88	0.004621	0.004658	9.83E-06	0.000582	0.000535	0.000577	1.647368
2	2019	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	78.13333	0.00741	0.022152	8.13E-05	0.000909	0.000836	0.004362	14.83637
2	2019	Parking Lot	Drainage -	Loader	Diesel	175	0.59	78.13333	0.004949	0.011545	2.58E-05	0.001133	0.001043	0.001535	4.326579
2	2019	Parking Lot	Drainage -	Other Gen	Diesel	175	0.43	78.13333	0.002831	0.010364	1.91E-05	0.000695	0.000639	0.001206	3.11902
2	2019	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	78.13333	0.00741	0.022152	8.13E-05	0.000909	0.000836	0.004362	14.83637
2	2019	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	78.13333	0.007712	0.006058	7.41E-06	0.001083	0.000996	0.001265	1.138638
2	2019	Parking Lot	Excavation	Dozer	Diesel	175	0.59	134.588	0.00661	0.015398	4.30E-05	0.001434	0.00132	0.002434	7.453256
2	2019	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	134.588	0.012765	0.038158	0.00014	0.001565	0.00144	0.0075	25.55627
2	2019	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	134.588	0.012765	0.038158	0.00014	0.001565	0.00144	0.0075	25.55627
2	2019	Parking Lot	Excavation	Roller	Diesel	100	0.59	62.11754	0.006123	0.006171	1.30E-05	0.000771	0.000709	0.000761	2.182816
2	2019	Parking Lot	Excavation	Dozer	Diesel	175	0.59	100.941	0.004958	0.011548	3.22E-05	0.001076	0.00099	0.001828	5.589942
2	2019	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	269.176	0.02553	0.076316	0.00028	0.00313	0.00288	0.014981	51.11255
2	2019	Parking Lot	Excavation	Excavator	Diesel	175	0.59	80.7528	0.003089	0.00754	2.51E-05	0.000614	0.000565	0.001393	4.472143
2	2019	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	80.7528	0.007659	0.022895	8.40E-05	0.000939	0.000864	0.004508	15.33376
2	2019	Parking Lot	Excavation	Roller	Diesel	100	0.59	80.7528	0.00796	0.008023	1.69E-05	0.001002	0.000922	0.000986	2.837661
2	2019	Parking Lot	Excavation	Scraper	Diesel	600	0.59	100.941	0.024623	0.060543	0.000116	0.003701	0.003405	0.00626	19.16557
2	2019	Parking Lot	Excavation	Dozer	Diesel	175	0.59	38.00125	0.001866	0.004348	1.21E-05	0.000405	0.000373	0.000696	2.104445
2	2019	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	16.16667	0.001533	0.004584	1.68E-05	0.000188	0.000173	0.000918	3.069811
2	2019	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	64.66667	0.006133	0.018334	6.73E-05	0.000752	0.000692	0.003614	12.27925
2	2019	Parking Lot	Fencing	Other Gen	Diesel	175	0.43	64.66667	0.002343	0.008578	1.58E-05	0.000575	0.000529	0.001002	2.581441
2	2019	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	64.66667	0.006133	0.018334	6.73E-05	0.000752	0.000692	0.003614	12.27925
2	2019	Parking Lot	Fencing	Skid Steer l	Diesel	75	0.21	64.66667	0.005168	0.005417	4.77E-06	0.000764	0.000703	0.001046	0.706078
2	2019	Parking Lot	Fencing	Tractors/Lc	Diesel	100	0.21	64.66667	0.006383	0.005014	6.14E-06	0.000896	0.000824	0.001055	0.942388
2	2019	Parking Lot	Grading	Dozer	Diesel	175	0.59	26.0184	0.001278	0.002977	8.31E-06	0.000277	0.000255	0.000481	1.440855
2	2019	Parking Lot	Grading	Grader	Diesel	300	0.59	26.0184	0.001406	0.004466	1.38E-05	0.000229	0.000211	0.000777	2.470145
2	2019	Parking Lot	Grading	Roller	Diesel	100	0.59	26.0184	0.002565	0.002585	5.46E-06	0.000323	0.000297	0.000326	0.914289
2	2019	Parking Lot	Hydroseedi	Hydroseed	Diesel	600	0.59	23.44	0.002223	0.006646	2.44E-05	0.000273	0.000251	0.001322	4.45091
2	2019	Parking Lot	Hydroseedi	Off-Road T	Diesel	600	0.59	23.44	0.002223	0.006646	2.44E-05	0.000273	0.000251	0.001322	4.45091
2	2019	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	7.337143	0.000696	0.00208	7.63E-06	8.53E-05	7.85E-05	0.000427	1.393215
2	2019	Parking Lot	Markings	Other Gen	Diesel	175	0.43	7.337143	0.000266	0.000973	1.79E-06	6.53E-05	6.00E-05	0.000131	0.292893
2	2019	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	7.337143	0.000696	0.00208	7.63E-06	8.53E-05	7.85E-05	0.000427	1.393215
2	2019	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	58.2	0.00552	0.016501	6.06E-05	0.000677	0.000623	0.003254	11.05132
2	2019	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	58.2	0.00552	0.016501	6.06E-05	0.000677	0.000623	0.003254	11.05132
2	2019	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	58.2	0.00552	0.016501	6.06E-05	0.000677	0.000623	0.003254	11.05132
2	2019	Parking Lot	Sidewalks	Tractors/Lc	Diesel	100	0.21	58.2	0.005744	0.004513	5.52E-06	0.000806	0.000742	0.000954	0.848149
2	2019	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	58.2	0.000737	0.000741	6.57E-07	6.62E-05	6.09E-05	0.000103	0.088366
2	2019	Parking Lot	Soil Erosior	Other Gen	Diesel	175	0.43	21.6	0.000783	0.002865	5.28E-06	0.000192	0.000177	0.000347	0.862255
2	2019	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	43.2	0.004097	0.012248	4.49E-05	0.000502	0.000462	0.002421	8.203042
2	2019	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	21.6	0.000503	0.000524	4.47E-07	4.87E-05	4.48E-05	7.45E-05	0.060115
2	2019	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	100	0.21	21.6	0.002132	0.001675	2.05E-06	0.000299	0.000275	0.000382	0.314777
2	2019	Parking Lot	Street Light	Dump Truc	Diesel	600	0.59	14.66667	0.001391	0.004158	1.53E-05	0.000171	0.000157	0.000835	2.784984
2	2019	Parking Lot	Street Light	Loader	Diesel	175	0.59	14.66667	0.000929	0.002167	4.85E-06	0.000213	0.000196	0.000301	0.812157
2	2019	Parking Lot	Street Light	Other Gen	Diesel	175	0.43	14.66667	0.000531	0.001945	3.59E-06	0.00013	0.00012	0.000242	0.585482
2	2019	Parking Lot	Street Light	Pickup Truc	Diesel	600	0.59	14.66667	0.001391	0.004158	1.53E-05	0.000171	0.000157	0.000835	2.784984
2	2019	Parking Lot	Street Light	Skid Steer l	Diesel	75	0.21	14.66667	0.001172	0.001229	1.08E-06	0.000173	0.000159	0.000259	0.160141
2	2019	Parking Lot	Street Light	Tractors/Lc	Diesel	100	0.21	14.66667	0.001448	0.001137	1.39E-06	0.000203	0.000187	0.000273	0.213737
2	2019	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	51.00168	0.002505	0.005835	1.63E-05	0.000544	0.0005	0.00093	2.824387
2	2019	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	358.9022	0.03404	0.101755	0.000373	0.004173	0.00384	0.019968	68.15023
2	2019	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	51.00168	0.004837	0.01446	5.31E-05	0.000593	0.000546	0.002854	9.684467
2	2019	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	49.69415	0.004898	0.004937	1.04E-05	0.000617	0.000567	0.000611	1.746257
2	2019	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	57.81867	0.00284	0.006615	1.85E-05	0.000616	0.000567	0.001053	3.2019
2	2019	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	57.81867	0.005484	0.016393	6.02E-05	0.000672	0.000619	0.003233	10.97891
2	2019	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	57.81867	0.005484	0.016393	6.02E-05	0.000672	0.000619	0.003233	10.97891
2	2019	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0	0	0	0	0	0	1.94E-05	0
2	2019	Parking Lot	Tree Planti	Other Gen	Diesel	175	0.43	0	0	0	0	0	0	1.92E-05	0
2	2019	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0	0	0	0	0	0	1.94E-05	0
2	2019	Parking Lot	Tree Planti	Tractors/Lc	Diesel	100	0.21	0	0	0	0	0	0	4.39E-05	0
3	2019	Building - 1	Concrete Fo	Backhoe	Diesel	100	0.21	480	0.047376	0.037218	4.55E-05	0.006651	0.006119	0.00762	6.995044
3	2019	Building - 1	Concrete Fo	Concrete P	Diesel	11	0.43	180	0.004188	0.004365	3.72E-06	0.000406	0.000374	0.000613	0.500961
3	2019	Building - 1	Concrete Fo	Concrete R	Diesel	600	0.59	360	0.034144	0.102066	0.000375	0.004186	0.003851	0.020061	68.35869
3	2019	Building - 1	Concrete Fo	Excavator	Diesel	175	0.59	160	0.006121	0.014939	4.98E-05	0.001217	0.00112	0.002767	8.860906
3	2019	Building - 1	Concrete Fo	Fork Truck	Diesel	100	0.59	480	0.015196	0.013885	9.06E-05	0.000804	0.000739	0.004403	16.87107
3	2019	Building - 1	Concrete Fo	Tool Truck	Diesel	600	0.59	120	0.011381	0.034022	0.000125	0.001395	0.001284	0.006721	22.78623
3	2019	Building - 1	Concrete Fo	Tractor Tra	Diesel	600	0.59	240	0.022763	0.068044	0.00025	0.002791	0.002568	0.013391	45.57246
3	2019	Building - 1	Constructic	Survey Cre	Diesel	600	0.59	10	0.000948	0.002835	1.04E-05	0.000116	0.000107	0.000607	1.898852
3	2019	Building - 1	Constructic	Tractor Tra	Diesel	600	0.59	4	0.000379	0.001134	4.16E-06	4.65E-05	4.28E-05	0.000274	0.759541
3	2019	Building - 1	Exterior Wa	Fork Truck	Diesel	100	0.59	840	0.026593	0.024298	0.000159	0.001406	0.001294	0.007703	29.52437
3	2019	Building - 1	Exterior Wa	Generator	Diesel	40	0.43	80	0.001952	0.006305	5.28E-06	0.000377	0.000347	0.000524	0.81093
3	2019	Building - 1	Exterior Wa	Grout Mixe	Diesel	600	0.59	420	0.176511	0.412766	0.000511	0.025156	0.023143	0.03272	79.72655
3	2019	Building - 1	Exterior Wa	Grout Whe	Diesel	600	0.59	160	0.015175	0.045363	0.000166	0.001861	0.001712	0.008944	30.38164
3	2019	Building - 1	Exterior Wa	Man Lift	Diesel	75	0.21	1680	0.12289	0.143431	0.000124	0.017009	0.015649	0.024774	18.34812
3	2019	Building - 1	Exterior Wa	Tool Truck	Diesel	600	0.59	420	0.039834	0.119077	0.000437	0.004884	0.004493	0.023396	79.7518
3	2019	Building - 1	Exterior Wa	Tractor Tra	Diesel	600	0.59	840	0.079669	0.238155	0.000874	0.009768	0.008986	0.04674	159.5036
3	2019	Building - 1	Exterior Wa	Truck Towe	Diesel	300	0.43	80	0.003172	0.01437	3.22E-05	0.000627	0.000577	0.001904	5.47528
3	2019	Building - 1	Interior Bui	Fork Truck	Diesel	100	0.59	1600	0.050653	0.046282	0.000302	0.002679	0.002464	0.014669	56.23689
3	2019	Building - 1	Interior Bui	Man Lift	Diesel	75	0.21	3200	0.234076	0.273201	0.000236	0.032399	0.029807	0.047163	34.94879
3	2019	Building - 1	Interior Bui	Tool Truck	Diesel	600	0.59	1600	0.15175	0.453628	0.001665	0.018605	0.017117	0.088983	303.8164
3	2019	Building - 1	Interior Bui	Tractor Tra	Diesel	600	0.59	1600	0.15175	0.453628	0.001665	0.018605	0.017117	0.088983	303.8164
3	2019	Building - 1	Roofing	High Lift	Diesel	100	0.59	160	0.005065	0.004628	3.02E-05	0.000268	0.000246	0.00147	5.623689
3	2019	Building - 1	Roofing	Man Lift	Diesel	75	0.21	40	0.002926	0.003415	2.95E-06	0.000405	0.000373	0.000618	0.43686
3	2019	Building - 1	Roofing	Material De	Diesel	600	0.59	60	0.005691	0.017011	6.24E-05	0.000698	0.000642	0.003386	11.39311
3	2019	Building - 1	Roofing	Tractor Tra	Diesel	600	0.59	40	0.003794	0.011341	4.16E-05	0.000465	0.000428	0.002275	7.59541
3	2019	Building - 1	Roofing	Truck Towe	Diesel	300	0.43	120	0.004758	0.021555	4.83E-05	0.000941	0.000866	0.002828	8.212919
3	2019	Building - 1	Security &	High Lift	Diesel	100	0.59	800	0.025326	0.023141	0.000151	0.001339	0.001232	0.007336	28.11845
3	2019	Building - 1	Security &	Tool Truck	Diesel	600	0.59	800	0.075875	0.226814	0.000832	0.009303	0.008558	0.044517	151.9082
3	2019	Building - 1	Structural S	90 Ton Cra	Diesel	300	0.43	240	0.009515	0.043111	9.65E-05	0.001882	0.001732	0.005601	16.42584

ACEIT Output - Default Asphalt Application Rates

3	2019	Building - 1	Structural S	Concrete P	Diesel	11	0.43	60	0.001396	0.001455	1.24E-06	0.000135	0.000125	0.000206	0.166987	
3	2019	Building - 1	Structural S	Concrete T	Diesel	600	0.59	60	0.005691	0.017011	6.24E-05	0.000698	0.000642	0.003386	11.39311	
3	2019	Building - 1	Structural S	Fork Truck	Diesel	100	0.59	640	0.020261	0.018513	0.000121	0.001071	0.000986	0.005869	22.49476	
3	2019	Building - 1	Structural S	Tool Truck	Diesel	600	0.59	160	0.015175	0.045363	0.000166	0.001861	0.001712	0.008944	30.38164	
3	2019	Building - 1	Structural S	Tractor Tra	Diesel	600	0.59	360	0.034144	0.102066	0.000375	0.004186	0.003851	0.020061	68.35869	
3	2019	Building - 1	Structural S	Trowel Ma	Diesel	600	0.59	40	0.016811	0.039311	4.87E-05	0.002396	0.002204	0.003287	7.593005	
3	2019	Building - 1	Structural S	Truck Towe	Diesel	300	0.43	720	0.028546	0.129333	0.00029	0.005647	0.005196	0.016691	49.27752	
3	2019	Cargo Apro	Clearing an	Chain Saw	Diesel	11	0.7	62.4	0.155468	0.000701	7.43E-05	0.005163	0.00475	0.03652	0.329608	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	2019	Cargo Apro	Clearing an	Chipper/St	Diesel	100	0.43	62.4	0.005364	0.009582	1.04E-05	0.000941	0.000865	0.001167	1.581051	
3	2019	Cargo Apro	Clearing an	Pickup Truc	Diesel	600	0.59	83.2	0.007891	0.023589	8.66E-05	0.000967	0.00089	0.004676	15.79845	
3	2019	Cargo Apro	Concrete P	Air Compre	Diesel	100	0.43	79.0872	0.004651	0.007646	1.24E-05	0.000681	0.000626	0.000871	2.005392	
3	2019	Cargo Apro	Concrete P	Concrete S	Diesel	40	0.59	79.0872	0.001235	0.006991	6.44E-06	0.000177	0.000162	0.000362	1.111708	
3	2019	Cargo Apro	Concrete P	Concrete T	Diesel	600	0.59	329.53	0.031254	0.093428	0.000343	0.003832	0.003525	0.018367	62.57288	
3	2019	Cargo Apro	Concrete P	Other Gene	Diesel	175	0.43	158.1744	0.005731	0.020981	3.87E-05	0.001407	0.001295	0.002441	6.314195	
3	2019	Cargo Apro	Concrete P	Pickup Truc	Diesel	600	0.59	237.2616	0.022503	0.067268	0.000247	0.002759	0.002538	0.013239	45.05248	
3	2019	Cargo Apro	Concrete P	Rubber Tire	Diesel	175	0.59	79.0872	0.005009	0.011686	2.61E-05	0.001147	0.001055	0.001579	4.3794	
3	2019	Cargo Apro	Concrete P	Slip Form P	Diesel	175	0.59	79.0872	0.004581	0.010588	2.58E-05	0.001032	0.00095	0.001528	4.379531	
3	2019	Cargo Apro	Concrete P	Surfacing E	Diesel	25	0.59	79.0872	0.00307	0.005733	5.16E-06	0.000454	0.000418	0.000608	0.693769	
3	2019	Cargo Apro	Drainage -	Dozer	Diesel	175	0.59	27.68	0.00136	0.003167	8.84E-06	0.000295	0.000271	0.000531	1.532872	
3	2019	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	27.68	0.002625	0.007848	2.88E-05	0.000322	0.000296	0.00159	5.256023	
3	2019	Cargo Apro	Drainage -	Excavator	Diesel	175	0.59	27.68	0.001059	0.002585	8.61E-06	0.000211	0.000194	0.000499	1.532937	
3	2019	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	27.68	0.001753	0.00409	9.15E-06	0.000401	0.000369	0.00058	1.532761	
3	2019	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	27.68	0.001003	0.003672	6.77E-06	0.000246	0.000227	0.000458	1.104963	
3	2019	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	27.68	0.002625	0.007848	2.88E-05	0.000322	0.000296	0.00159	5.256023	
3	2019	Cargo Apro	Drainage -	Roller	Diesel	100	0.59	27.68	0.002728	0.00275	5.81E-06	0.000343	0.000316	0.000365	0.972678	
3	2019	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	15.37778	0.001458	0.00436	1.60E-05	0.000179	0.000165	0.000906	2.920013	
3	2019	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	15.37778	0.000974	0.002272	5.08E-06	0.000223	0.000205	0.000341	0.851534	
3	2019	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	15.37778	0.000557	0.00204	3.76E-06	0.000137	0.000126	0.000271	0.613869	
3	2019	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	15.37778	0.001458	0.00436	1.60E-05	0.000179	0.000165	0.000906	2.920013	
3	2019	Cargo Apro	Drainage -	Tractors/Lo	Diesel	100	0.21	15.37778	0.001518	0.001192	1.46E-06	0.000213	0.000196	0.000356	0.2241	
3	2019	Cargo Apro	Dust Contr	Water Truc	Diesel	600	0.59	1440	0.136575	0.408266	0.001498	0.016745	0.015405	0.08009	273.4347	
3	2019	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	131.812	0.006474	0.01508	4.21E-05	0.001405	0.001292	0.002405	7.299525	
3	2019	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	131.812	0.012502	0.037371	0.000137	0.001533	0.00141	0.007378	25.02915	
3	2019	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	131.812	0.012502	0.037371	0.000137	0.001533	0.00141	0.007378	25.02915	
3	2019	Cargo Apro	Excavation	Roller	Diesel	100	0.59	60.83631	0.005997	0.006044	1.28E-05	0.000755	0.000694	0.000765	2.137793	
3	2019	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	98.859	0.004855	0.01131	3.16E-05	0.001054	0.000969	0.001812	5.474644	
3	2019	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	263.624	0.025003	0.074742	0.000274	0.003065	0.00282	0.014704	50.05831	
3	2019	Cargo Apro	Excavation	Excavator	Diesel	175	0.59	79.0872	0.003026	0.007384	2.46E-05	0.000602	0.000554	0.00138	4.379902	
3	2019	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	79.0872	0.007501	0.022423	8.23E-05	0.00092	0.000846	0.004447	15.01749	
3	2019	Cargo Apro	Excavation	Roller	Diesel	100	0.59	79.0872	0.007796	0.007857	1.66E-05	0.000981	0.000903	0.000985	2.779131	
3	2019	Cargo Apro	Excavation	Scraper	Diesel	600	0.59	98.859	0.024115	0.059294	0.000113	0.003625	0.003335	0.006217	18.77026	
3	2019	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	37.21773	0.001828	0.004258	1.19E-05	0.000397	0.000365	0.000703	2.061055	
3	2019	Cargo Apro	Fencing	Concrete T	Diesel	600	0.59	9.5	0.000901	0.002693	9.88E-06	0.00011	0.000102	0.000579	1.80391	
3	2019	Cargo Apro	Fencing	Dump Truc	Diesel	600	0.59	38	0.003604	0.010774	3.95E-05	0.000442	0.000407	0.002163	7.215639	
3	2019	Cargo Apro	Fencing	Other Gene	Diesel	175	0.43	38	0.001377	0.005041	9.29E-06	0.000338	0.000311	0.000615	1.516929	
3	2019	Cargo Apro	Fencing	Pickup Truc	Diesel	600	0.59	38	0.003604	0.010774	3.95E-05	0.000442	0.000407	0.002163	7.215639	
3	2019	Cargo Apro	Fencing	Skid Steer L	Diesel	75	0.21	38	0.003037	0.003183	2.80E-06	0.000449	0.000413	0.000672	0.414912	
3	2019	Cargo Apro	Fencing	Tractors/Lo	Diesel	100	0.21	38	0.003751	0.002946	3.61E-06	0.000527	0.000484	0.00071	0.553774	
3	2019	Cargo Apro	Grading	Dozer	Diesel	175	0.59	24.9639	0.001226	0.002856	7.97E-06	0.000266	0.000245	0.000482	1.382459	
3	2019	Cargo Apro	Grading	Grader	Diesel	300	0.59	24.9639	0.001349	0.004285	1.33E-05	0.00022	0.000202	0.000768	2.370032	
3	2019	Cargo Apro	Grading	Roller	Diesel	100	0.59	24.9639	0.002461	0.00248	5.24E-06	0.00031	0.000285	0.000332	0.877234	
3	2019	Cargo Apro	Hydroseedi	Hydroseed	Diesel	600	0.59	22.49	0.002133	0.006376	2.34E-05	0.000262	0.000241	0.001301	4.270519	
3	2019	Cargo Apro	Hydroseedi	Off-Road T	Diesel	600	0.59	22.49	0.002133	0.006376	2.34E-05	0.000262	0.000241	0.001301	4.270519	
3	2019	Cargo Apro	Lighting	Dump Truc	Diesel	600	0.59	14.73333	0.001397	0.004177	1.53E-05	0.000171	0.000158	0.00087	2.797643	
3	2019	Cargo Apro	Lighting	Loader	Diesel	175	0.59	14.73333	0.000933	0.002177	4.87E-06	0.000214	0.000197	0.000328	0.815848	
3	2019	Cargo Apro	Lighting	Other Gene	Diesel	175	0.43	14.73333	0.000534	0.001954	3.60E-06	0.000131	0.000121	0.000261	0.588143	
3	2019	Cargo Apro	Lighting	Pickup Truc	Diesel	600	0.59	14.73333	0.001397	0.004177	1.53E-05	0.000171	0.000158	0.00087	2.797643	
3	2019	Cargo Apro	Lighting	Skid Steer L	Diesel	75	0.21	14.73333	0.001177	0.001234	1.09E-06	0.000174	0.00016	0.000306	0.160869	
3	2019	Cargo Apro	Lighting	Tractors/Lo	Diesel	100	0.21	14.73333	0.001454	0.001142	1.40E-06	0.000204	0.000188	0.000346	0.214709	
3	2019	Cargo Apro	Markings	Flatbed Tru	Diesel	600	0.59	488.5714	0.046338	0.138519	0.000508	0.005681	0.005227	0.027207	92.7725	
3	2019	Cargo Apro	Markings	Other Gene	Diesel	175	0.43	488.5714	0.017703	0.064807	0.00012	0.004346	0.003999	0.007462	19.50338	
3	2019	Cargo Apro	Markings	Pickup Truc	Diesel	600	0.59	488.5714	0.046338	0.138519	0.000508	0.005681	0.005227	0.027207	92.7725	
3	2019	Cargo Apro	Sealing/Fue	Distributing	Diesel	600	0.59	63.27013	0.006001	0.017938	6.58E-05	0.000736	0.000677	0.003568	12.01406	
3	2019	Cargo Apro	Sealing/Fue	Other Gene	Diesel	175	0.43	63.27013	0.002293	0.008392	1.55E-05	0.000563	0.000518	0.000999	2.525693	
3	2019	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	600	0.59	63.27013	0.006001	0.017938	6.58E-05	0.000736	0.000677	0.003568	12.01406	
3	2019	Cargo Apro	Soil Erosior	Other Gene	Diesel	175	0.43	20.8	0.000754	0.002759	5.09E-06	0.000185	0.00017	0.000353	0.830319	
3	2019	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	600	0.59	41.6	0.003946	0.011794	4.33E-05	0.000484	0.000445	0.002364	7.899226	
3	2019	Cargo Apro	Soil Erosior	Pumps	Diesel	11	0.43	20.8	0.000484	0.000504	4.30E-07	4.69E-05	4.32E-05	7.29E-05	0.057889	
3	2019	Cargo Apro	Soil Erosior	Tractors/Lo	Diesel	100	0.21	20.8	0.002053	0.001613	1.97E-06	0.000288	0.000265	0.000441	0.303119	
3	2019	Cargo Apro	Subbase Pl	Dozer	Diesel	175	0.59	49.95011	0.002453	0.005715	1.60E-05	0.000532	0.00049	0.000932	2.766152	
3	2019	Cargo Apro	Subbase Pl	Dump Truc	Diesel	600	0.59	351.5022	0.033338	0.099657	0.000366	0.004087	0.00376	0.019589	66.74508	
3	2019	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	600	0.59	49.95011	0.004737	0.014162	5.20E-05	0.000581	0.000534	0.002828	9.484788	
3	2019	Cargo Apro	Subbase Pl	Roller	Diesel	100	0.59	48.66954	0.004797	0.004835	1.02E-05	0.000604	0.000556	0.000618	1.710252	
3	2019	Cargo Apro	Topsoil Pla	Dozer	Diesel	175	0.59	55.476	0.002725	0.006347	1.77E-05	0.000591	0.000544	0.001031	3.072167	
3	2019	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	600	0.59	55.476	0.005262	0.015728	5.77E-05	0.000645	0.000593	0.003135	10.53407	
3	2019	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	600	0.59	55.476	0.005262	0.015728	5.77E-05	0.000645	0.000593	0.003135	10.53407	
3	2019	Drainage S	Drainage -	Dozer	Diesel	175	0.59	35.29412	0.001733	0.004038	1.13E-05	0.000376	0.000346	0.000668	1.954528	
3	2019	Drainage S	Drainage -	Dump Truc	Diesel	600	0.59	35.29412	0.003347	0.010007	3.67E-05	0.00041	0.000378	0.002013	6.701832	
3	2019	Drainage S	Drainage -	Excavator	Diesel	175	0.59	35.29412	0.00135	0.003295	1.10E-05	0.000269	0.000247	0.00063	1.954612	
3	2019	Drainage S	Drainage -	Loader	Diesel	175	0.59	35.29412	0.002235	0.005215	1.17E-05	0.000512	0.000471	0.000728	1.954388	
3	2019	Drainage S	Drainage -	Other Gene	Diesel	175	0.43	35.29412	0.001279	0.004682	8.63E-06	0.000314	0.000289	0.000574	1.408913	
3	2019	Drainage S	Drainage -	Pickup Truc	Diesel	600	0.59	35.29412	0.003347	0.010007	3.67E-05	0.00041	0.000378	0.002013	6.701832	
3	2019	Drainage S	Drainage -	Roller	Diesel	100	0.59	35.29412	0.003479	0.003507	7.40E-06	0.000438	0.000403	0.000457	1.240238	
3	2019	Drainage S	Drainage -	Dozer	Diesel	175	0.59	19.2	0.000943	0.002197	6.13E-06	0.000205	0.000188	0.000379	1.063263	
3	2019	Drainage S	Drainage -	Dump Truc	Diesel	600	0.59	19.2	0.001821	0.005444	2.00E-05	0.000223	0.000205	0.001119	3.645797	
3	2019	Drainage S	Drainage -	Excavator	Diesel	175	0.59	19.2	0.000735	0.001793	5.97E-06	0.000146	0.000134	0.000354	1.063309	
3	2019	Drainage S	Drainage -	Loader	Diesel	175	0.59	19.2	0.001216	0.002837	6.34E-06	0.000278	0.000256	0.000415	1.063187	
3	2019	Drainage S	Drainage -	Other Gene	Diesel	175	0.43	19.2	0.000696	0.002547	4.70E-06	0.000171	0.000157	0.000329	0.766449	
3	2019	Drainage S	Drainage -	Pickup Truc	Diesel	600	0.59	19.2	0.001821	0.005444	2.00E-05	0.000223	0.000205	0.001119	3.645797	
3	2019	Drainage S	Drainage -	Roller	Diesel	100	0.59	19.2	0.001893	0.001908	4.03E-06	0.000238	0.000219	0.000263	0.67469	
3	2019	Drainage S	Drainage St	Dump Truc	Diesel	600	0.59	4.8	0.000455	0.001361	4.99E-06	5.58E-05	5.14E-05	0.000318	0.911449	
3	2019	Drainage S	Drainage St	Excavator	Diesel	175	0.59	4.8	0.000184	0.000448	1.49E-06	3.65E-05	3.36E-05	0.000107	0.265827	
3	2019	Drainage S	Drainage St	Other Gene	Diesel	175	0.43	9.6	0.000348	0.001273	2.35E-06	8.54E-05	7.86E-05	0.000183	0.383224	
3	2019	Drainage S	Drainage St	Pickup Truc	Diesel	600	0.59	9.6	0.000911	0.002722	9.99E-06	0.000112	0.000103	0.000585	1.822898	
3	2019	Drainage S	Hydroseedi	Hydroseed	Diesel	600	0.59	1.22	0.000116	0.000346	1.27E-06	1.42E-05	1.31E-05	0.000119	0.23166	
3	2019	Drainage S	Hydroseedi	Off-Road T	Diesel	600	0.59	1.22	0.000116	0.000346	1.27E-06	1.42E-05	1.31E-05	0.000119	0.23166	
3	2019	Drainage S	Soil Erosior	Other Gene	Diesel	175	0.43	1.2	4.35E-05	0.000159	2.94E-07	1.07E-05	9.82E-06	5.55E-05	0.047903	
3	2019	Drainage S	Soil Erosior	Pickup Truc	Diesel	600	0.59	2.4	0.000228	0.00068	2.50E-06	2.79E-05	2.57E-05	0.000185	0.455725	
3	2019	Drainage S	Soil Erosior	Pumps	Diesel	11	0.43	1.2	2.79E-05	2.91E-05	2.48E-08	2.71E-06	2.49E-06	6.34E-06	0.00334	
3	2019	Drainage S	Soil Erosior	Tractors/Lo	Diesel	100	0.21	1.2	0.000118	9.30E-05	1.14E-07	1.66E-05	1.53E-05	0.000135	0.017488	
3	2019	Drainage S	Topsoil Pla	Dozer	Diesel	175	0.59	3.009333	0.000148	0.000344	9.61E-07	3.21E-05	2.95E-05	8.74E-05	0.166652	
3	2019	Drainage S	Topsoil Pla	Dump Truc	Diesel	600	0.59	3.009333	0.000285	0.000853	3.13E-06	3.50E-05	3.22E-05	0.000219	0.571428	
3	2019	Drainage S	Topsoil Pla	Pickup Truc	Diesel	600	0.59	3.009333	0.000285	0.000853	3.13E-06	3.50E-05	3.22E-05	0.000219	0.571428	
3	2019	Fuel Tanks	Clearing an	Chain Saw	Diesel	11	0.7	13.2	0.032888	0.000148	1.57E-05	0.001092	0.001005	0.010675	0.069725	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	2019	Fuel Tanks	Clearing an	Chipper/St	Diesel	100	0.43	13.2	0.001135	0.002027	2.20E-06	0.000199	0.000183	0.000299	0.334453	
3	2019	Fuel Tanks	Clearing an	Pickup Truc	Diesel	600	0.59	17.6	0.001669	0.00499	1.83E-05	0.000205	0.000188	0.00103	3.34198	
3	2019	Fuel Tanks	Concrete P	Air Compre	Diesel	100	0.43	15.3552	0.000903	0.001485	2.41E-06	0.000132	0.000122	0.000195	0.389357	
3	2019	Fuel Tanks	Concrete P	Concrete S	Diesel	40	0.59	15.3552	0.00024	0.001357	1.25E-06	3.43E-05	3.15E-05	7.08E-05	0.215844	
3	2019	Fuel Tanks	Concrete P	Concrete T	Diesel	600	0.59	63.98	0.006068	0.018139	6.66E-05	0.000744	0.000684	0.003607	12.14886	
3	2019	Fuel Tanks	Concrete P	Other Gene	Diesel	175	0.43	30.7104	0.001113	0.004074	7.51E-06	0.000273	0.000251	0.000504	1.225934	
3	2019	Fuel Tanks	Concrete P	Pickup Truc	Diesel	600	0.59	46.0656	0.004369	0.01306	4.79E-05	0.000536	0.000493	0.002612	8.747177	
3	2019	Fuel Tanks	Concrete P	Rubber Tire	Diesel	175	0.59	15.3552	0.000973	0.002269	5.07E-06	0.000223	0.000205	0.00034	0.850284	
3	2019	Fuel Tanks	Concrete P	Slip Form P	Diesel	175	0.59	15.3552	0.000889	0.002056	5.01E-06	0.0002	0.000184	0.000327	0.850309	
3	2019	Fuel Tanks	Concrete P	Surfacing E	Diesel	25	0.59	15.3552	0.000596	0.001113	1.00E-06	8.81E-05	8.11E-05	0.000119	0.134699	
3	2019	Fuel Tanks	Constructic	Crane	Diesel	300	0.43	15	0.000595	0.002694	6.03E-06	0.000118	0.000108	0.000402	1.026615	
3	2019	Fuel Tanks	Constructic	Other Gene	Diesel	175	0.43	40	0.001449	0.005306	9.78E-06	0.000356	0.000327	0.000645	1.596768	
3	2019	Fuel Tanks	Constructic	Pickup Truc	Diesel	600	0.59	40	0.003794	0.011341	4.16E-05	0.000465	0.000428	0.002275	7.59541	
3	2019	Fuel Tanks	Drainage -	Excavator	Diesel	175	0.59	13.6	0.00052	0.00127	4.23E-06	0.000103	9.52E-05	0.000258	0.753177	
3	2019	Fuel Tanks	Drainage	Dozer	Diesel	175	0.59	13.6	0.000668	0.001556	4.34E-06	0.000145	0.000133	0.000278	0.753145	
3	2019	Fuel Tanks	Drainage	Dump Truc	Diesel	600	0.59	13.6	0.00129	0.003856	1.41E-05	0.000158	0.000145	0.000807	2.582439	
3	2019	Fuel Tanks	Drainage	Loader	Diesel	175	0.59	13.6	0.000861	0.002009	4.49E-06	0.000197	0.000181	0.000306	0.753091	
3	2019	Fuel Tanks	Drainage	Other Gene	Diesel	175	0.43	13.6	0.000493	0.001804	3.33E-06	0.000121	0.000111	0.000244	0.542901	
3	2019	Fuel Tanks	Drainage	Pickup Truc	Diesel	600	0.59	13.6	0.00129	0.003856	1.41E-05	0.000158	0.000145	0.000807	2.582439	
3	2019	Fuel Tanks	Drainage	Roller	Diesel	100	0.59	13.6	0.001341	0.001351	2.85E-06	0.000169	0.000155	0.000195	0.477905	
3	2019	Fuel Tanks	Dust Contr	Water Truc	Diesel	600	0.59	1440	0.136575	0.408266	0.001498	0.016745	0.015405	0.08009	273.4347	
3	2019	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	81.89333	0.004022	0.009369	2.62E-05	0.000873	0.000803	0.001506	4.535114	
3	2019	Fuel Tanks	Excavation	Dump Truc	Diesel	600	0.59	81.89333	0.007767	0.023218	8.52E-05	0.000952	0.000876	0.004603	15.55034	
3	2019	Fuel Tanks	Excavation	Pickup Truc	Diesel	600	0.59	81.89333	0.007767	0.023218	8.52E-05	0.000952	0.000876	0.004603	15.55034	
3	2019	Fuel Tanks	Excavation	Roller	Diesel	100	0.59	37.79692	0.003726	0.003755	7.93E-06	0.000469	0.000431	0.000487	1.328187	
3	2019	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	61.42	0.003017	0.007027	1.96E-05	0.000655	0.000602	0.001138	3.401336	
3	2019	Fuel Tanks	Excavation	Dump Truc	Diesel	600	0.59	163.7867	0.015534	0.046436	0.00017	0.001905	0.001752	0.009155	31.10067	
3	2019	Fuel Tanks	Excavation	Excavator	Diesel	175	0.59	49.136	0.00188	0.004588	1.53E-05	0.000374	0.000344	0.000867	2.721184	
3	2019	Fuel Tanks	Excavation	Pickup Truc	Diesel	600	0.59	49.136	0.00466	0.013931	5.11E-05	0.000571	0.000526	0.002782	9.330201	
3	2019	Fuel Tanks	Excavation	Roller	Diesel	100	0.59	49.136	0.004843	0.004882	1.03E-05	0.00061	0.000561	0.000624	1.726643	
3	2019	Fuel Tanks	Excavation	Scraper	Diesel	600	0.59	61.42	0.014983	0.036839	7.05E-05	0.002252	0.002072	0.003915	11.66175	
3	2019	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	7.225882	0.000355	0.000827	2.31E-06	7.70E-05	7.09E-05	0.000163	0.400157	
3	2019	Fuel Tanks	Fencing	Concrete T	Diesel	600	0.59	4.611111	0.000437	0.001307	4.80E-06	5.36E-05	4.93E-05	0.000308	0.875582	
3	2019	Fuel Tanks	Fencing	Dump Truc	Diesel	600	0.59	18.44444	0.001749	0.005229	1.92E-05	0.000214	0.000197	0.001077	3.502328	
3	2019	Fuel Tanks	Fencing	Other Gene	Diesel	175	0.43	18.44444	0.000668	0.002447	4.51E-06	0.000164	0.000151	0.000318	0.736287	
3	2019	Fuel Tanks	Fencing	Pickup Truc	Diesel	600	0.59	18.44444	0.001749	0.005229	1.92E-05	0.000214	0.000197	0.001077	3.502328	
3	2019	Fuel Tanks	Fencing	Skid Steer L	Diesel	75	0.21	18.44444	0.001474	0.001545	1.36E-06	0.000218	0.0002	0.000364	0.20139	
3	2019	Fuel Tanks	Fencing	Tractors/Lo	Diesel	100	0.21	18.44444	0.00182	0.00143	1.75E-06	0.000256	0.000235	0.000404	0.268791	
3	2019	Fuel Tanks	Grading	Dozer	Diesel	175	0.59	5.1893	0.000255	0.000594	1.66E-06	5.53E-05	5.09E-05	0.000127	0.287375	
3	2019	Fuel Tanks	Grading	Grader	Diesel	300	0.59	5.1893	0.00028	0.000891	2.76E-06	4.57E-05	4.20E-05	0.000188	0.492664	
3	2019	Fuel Tanks	Grading	Roller	Diesel	100	0.59	5.1893	0.000512	0.000516	1.09E-06	6.44E-05	5.92E-05	9.35E-05	0.182352	
3	2019	Fuel Tanks	Hydroseedi	Hydroseed	Diesel	600	0.59	4.675	0.000443	0.001325	4.86E-06	5.44E-05	5.00E-05	0.000311	0.887713	
3	2019	Fuel Tanks	Hydroseedi	Off-Road T	Diesel	600	0.59	4.675	0.000443	0.001325	4.86E-06	5.44E-05	5.00E-05	0.000311	0.887713	
3	2019	Fuel Tanks	Markings	Flatbed Tru	Diesel	600	0.59	94.85714	0.008997	0.026894	9.87E-05	0.001103	0.001015	0.005324	18.01197	
3	2019	Fuel Tanks	Markings	Other Gene	Diesel	175	0.43	94.85714	0.003437	0.012582	2.32E-05	0.000844	0.000776	0.001479	3.786621	
3	2019	Fuel Tanks	Markings	Pickup Truc	Diesel	600	0.59	94.85714	0.008997	0.026894	9.87E-05	0.001103	0.001015	0.005324	18.01197	
3	2019	Fuel Tanks	Soil Erosior	Other Gene	Diesel	175	0.43	4.4	0.000159	0.000584	1.08E-06	3.91E-05	3.60E-05	0.000104	0.175644	
3	2019	Fuel Tanks	Soil Erosior	Pickup Truc	Diesel	600	0.59	8.8	0.000835	0.002495	9.16E-06	0.000102	9.41E-05	0.00054	1.67099	
3	2019	Fuel Tanks	Soil Erosior	Pumps	Diesel	11	0.43	4.4	0.000102	0.000107	9.10E-08	9.92E-06	9.13E-06	1.72E-05	0.012246	

ACEIT Output - Default Asphalt Application Rates

3	2019	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.4	0.000434	0.000341	4.17E-07	6.10E-05	5.61E-05	0.000185	0.064121	
3	2019	Fuel Tanks	Street Light	Dump Truc	Diesel	600	0.59	2.666667	0.000253	0.000756	2.77E-06	3.10E-05	2.85E-05	0.0002	0.506361	
3	2019	Fuel Tanks	Street Light	Loader	Diesel	175	0.59	2.666667	0.000169	0.000394	8.81E-07	3.87E-05	3.56E-05	9.34E-05	0.147665	
3	2019	Fuel Tanks	Street Light	Other Gene	Diesel	175	0.43	2.666667	9.66E-05	0.000354	6.52E-07	2.37E-05	2.18E-05	7.78E-05	0.106451	
3	2019	Fuel Tanks	Street Light	Pickup Truc	Diesel	600	0.59	2.666667	0.000253	0.000756	2.77E-06	3.10E-05	2.85E-05	0.0002	0.506361	
3	2019	Fuel Tanks	Street Light	Skid Steer L	Diesel	75	0.21	2.666667	0.000213	0.000223	1.97E-07	3.15E-05	2.90E-05	0.000116	0.029117	
3	2019	Fuel Tanks	Street Light	Tractors/Lc	Diesel	100	0.21	2.666667	0.000263	0.000207	2.53E-07	3.69E-05	3.40E-05	0.000158	0.038861	
3	2019	Fuel Tanks	Subbase Pl	Dozer	Diesel	175	0.59	9.697895	0.000476	0.001109	3.10E-06	0.000103	9.51E-05	0.000208	0.537053	
3	2019	Fuel Tanks	Subbase Pl	Dump Truc	Diesel	600	0.59	68.24444	0.006473	0.019349	7.10E-05	0.000794	0.00073	0.003845	12.95861	
3	2019	Fuel Tanks	Subbase Pl	Pickup Truc	Diesel	600	0.59	9.697895	0.00092	0.00275	1.01E-05	0.000113	0.000104	0.00059	1.841487	
3	2019	Fuel Tanks	Subbase Pl	Roller	Diesel	100	0.59	9.449231	0.000931	0.000939	1.98E-06	0.000117	0.000108	0.000145	0.332047	
3	2019	Fuel Tanks	Topsoil Pla	Dozer	Diesel	175	0.59	23.064	0.001133	0.002639	7.37E-06	0.000246	0.000226	0.000448	1.277245	
3	2019	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel	600	0.59	23.064	0.002187	0.006539	2.40E-05	0.000268	0.000247	0.001333	4.379513	
3	2019	Fuel Tanks	Topsoil Pla	Pickup Truc	Diesel	600	0.59	23.064	0.002187	0.006539	2.40E-05	0.000268	0.000247	0.001333	4.379513	
3	2019	Parking Lot	Asphalt Pla	Asphalt Pav	Diesel	175	0.59	50.47038	0.002924	0.006757	1.65E-05	0.000659	0.000606	0.000989	2.794847	
3	2019	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	181.7729	0.01724	0.051536	0.000189	0.002114	0.001945	0.010155	34.51599	
3	2019	Parking Lot	Asphalt Pla	Other Gene	Diesel	175	0.43	100.9408	0.003658	0.013389	2.47E-05	0.000898	0.000826	0.001571	4.029474	
3	2019	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	50.47038	0.004787	0.014309	5.25E-05	0.000587	0.00054	0.002857	9.583579	
3	2019	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	50.47038	0.004975	0.005014	1.06E-05	0.000626	0.000576	0.00064	1.773533	
3	2019	Parking Lot	Asphalt Pla	Skid Steer L	Diesel	75	0.21	50.47038	0.004034	0.004228	3.72E-06	0.000596	0.000548	0.000868	0.551073	
3	2019	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	64.60208	0.002507	0.004683	4.21E-06	0.000371	0.000341	0.000497	0.566702	
3	2019	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	108	0.26908	0.001213	0.000129	0.008936	0.008221	0.060473	0.570475	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	2019	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	108	0.009284	0.016584	1.80E-05	0.001628	0.001498	0.001972	2.736434	
3	2019	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	144	0.013658	0.040827	0.00015	0.001674	0.001541	0.008055	27.34347	
3	2019	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	48.5	0.0046	0.013751	5.05E-05	0.000564	0.000519	0.002747	9.209434	
3	2019	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	48.5	0.002809	0.006493	1.58E-05	0.000633	0.000582	0.000952	2.685735	
3	2019	Parking Lot	Curbing	Other Gene	Diesel	175	0.43	48.5	0.001757	0.006433	1.19E-05	0.000431	0.000397	0.000774	1.936081	
3	2019	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	48.5	0.0046	0.013751	5.05E-05	0.000564	0.000519	0.002747	9.209434	
3	2019	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	77.92	0.003827	0.008914	2.49E-05	0.00083	0.000764	0.001435	4.315078	
3	2019	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	77.92	0.00739	0.022092	8.11E-05	0.000906	0.000834	0.004382	14.79586	
3	2019	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	77.92	0.002981	0.007275	2.42E-05	0.000593	0.000545	0.00136	4.315261	
3	2019	Parking Lot	Drainage -	Loader	Diesel	175	0.59	77.92	0.004935	0.011513	2.57E-05	0.00113	0.00104	0.001557	4.314767	
3	2019	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	77.92	0.002823	0.010336	1.91E-05	0.000693	0.000638	0.001221	3.110504	
3	2019	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	77.92	0.00739	0.022092	8.11E-05	0.000906	0.000834	0.004382	14.79586	
3	2019	Parking Lot	Drainage -	Roller	Diesel	100	0.59	77.92	0.007681	0.007741	1.63E-05	0.000967	0.000889	0.000971	2.738116	
3	2019	Parking Lot	Drainage - (	Dump Truc	Diesel	600	0.59	129.8667	0.012317	0.03682	0.000135	0.00151	0.001389	0.00727	24.65976	
3	2019	Parking Lot	Drainage - (	Loader	Diesel	175	0.59	129.8667	0.008226	0.019189	4.29E-05	0.001884	0.001733	0.002567	7.191278	
3	2019	Parking Lot	Drainage - (	Other Gene	Diesel	175	0.43	129.8667	0.004706	0.017226	3.18E-05	0.001155	0.001063	0.002011	5.184173	
3	2019	Parking Lot	Drainage - (	Pickup Truc	Diesel	600	0.59	129.8667	0.012317	0.03682	0.000135	0.00151	0.001389	0.00727	24.65976	
3	2019	Parking Lot	Drainage - (	Tractors/Lc	Diesel	100	0.21	129.8667	0.012818	0.010069	1.23E-05	0.001799	0.001655	0.002146	1.892548	
3	2019	Parking Lot	Excavation	Dozer	Diesel	175	0.59	224.312	0.011017	0.025662	7.16E-05	0.002391	0.0022	0.004069	12.42202	
3	2019	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	224.312	0.021275	0.063596	0.000233	0.002608	0.0024	0.012519	42.59354	
3	2019	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	224.312	0.021275	0.063596	0.000233	0.002608	0.0024	0.012519	42.59354	
3	2019	Parking Lot	Excavation	Roller	Diesel	100	0.59	103.5286	0.010205	0.010286	2.17E-05	0.001285	0.001182	0.00128	3.638005	
3	2019	Parking Lot	Excavation	Dozer	Diesel	175	0.59	168.234	0.008263	0.019247	5.37E-05	0.001793	0.00165	0.00306	9.316514	
3	2019	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	448.624	0.042549	0.127193	0.000467	0.005217	0.004799	0.024987	85.18708	
3	2019	Parking Lot	Excavation	Excavator	Diesel	175	0.59	134.5872	0.005149	0.012567	4.19E-05	0.001024	0.000942	0.002331	7.453528	
3	2019	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	134.5872	0.012765	0.038158	0.00014	0.001565	0.00144	0.007532	25.55612	
3	2019	Parking Lot	Excavation	Roller	Diesel	100	0.59	134.5872	0.013267	0.013371	2.82E-05	0.00167	0.001536	0.001655	4.729406	
3	2019	Parking Lot	Excavation	Scraper	Diesel	600	0.59	168.234	0.041039	0.100904	0.000193	0.006169	0.005675	0.010483	31.94242	
3	2019	Parking Lot	Excavation	Dozer	Diesel	175	0.59	63.33537	0.003111	0.007246	2.02E-05	0.000675	0.000621	0.001173	3.507406	
3	2019	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	26.94444	0.002556	0.007639	2.80E-05	0.000313	0.000288	0.001549	5.116352	
3	2019	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	107.7778	0.010222	0.030557	0.000112	0.001253	0.001153	0.006042	20.46541	
3	2019	Parking Lot	Fencing	Other Gene	Diesel	175	0.43	107.7778	0.003905	0.014296	2.64E-05	0.000959	0.000882	0.001675	4.302402	
3	2019	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	107.7778	0.010222	0.030557	0.000112	0.001253	0.001153	0.006042	20.46541	
3	2019	Parking Lot	Fencing	Skid Steer L	Diesel	75	0.21	107.7778	0.008614	0.009029	7.95E-06	0.001273	0.001171	0.00177	1.176797	
3	2019	Parking Lot	Fencing	Tractors/Lc	Diesel	100	0.21	107.7778	0.010638	0.008357	1.02E-05	0.001493	0.001374	0.001801	1.570646	
3	2019	Parking Lot	Grading	Dozer	Diesel	175	0.59	43.2456	0.002124	0.004948	1.38E-05	0.000461	0.000424	0.000811	2.394868	
3	2019	Parking Lot	Grading	Grader	Diesel	300	0.59	43.2456	0.002337	0.007423	2.30E-05	0.000381	0.00035	0.001304	4.105667	
3	2019	Parking Lot	Grading	Roller	Diesel	100	0.59	43.2456	0.004263	0.004297	9.07E-06	0.000537	0.000494	0.000553	1.519654	
3	2019	Parking Lot	Hydroseedi	Hydroseed	Diesel	600	0.59	38.96	0.003695	0.011046	4.05E-05	0.000453	0.000417	0.002217	7.397929	
3	2019	Parking Lot	Hydroseedi	Off-Road T	Diesel	600	0.59	38.96	0.003695	0.011046	4.05E-05	0.000453	0.000417	0.002217	7.397929	
3	2019	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	11.77143	0.001116	0.003337	1.22E-05	0.000137	0.000126	0.000706	2.235221	
3	2019	Parking Lot	Markings	Other Gene	Diesel	175	0.43	11.77143	0.000427	0.001561	2.88E-06	0.000105	9.63E-05	0.000216	0.469906	
3	2019	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	11.77143	0.001116	0.003337	1.22E-05	0.000137	0.000126	0.000706	2.235221	
3	2019	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	97	0.0092	0.027501	0.000101	0.001128	0.001038	0.005443	18.41887	
3	2019	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	97	0.0092	0.027501	0.000101	0.001128	0.001038	0.005443	18.41887	
3	2019	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	97	0.0092	0.027501	0.000101	0.001128	0.001038	0.005443	18.41887	
3	2019	Parking Lot	Sidewalks	Tractors/Lc	Diesel	100	0.21	97	0.009574	0.007521	9.20E-06	0.001344	0.001237	0.001632	1.413582	
3	2019	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	97	0.001229	0.001234	1.09E-06	0.00011	0.000101	0.000172	0.147277	
3	2019	Parking Lot	Soil Erosior	Other Gene	Diesel	175	0.43	36	0.001304	0.004775	8.81E-06	0.00032	0.000295	0.000584	1.437091	
3	2019	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	72	0.006829	0.020413	7.49E-05	0.000837	0.00077	0.004053	13.67174	
3	2019	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	36	0.000838	0.000873	7.45E-07	8.12E-05	7.47E-05	0.000124	0.100192	
3	2019	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	100	0.21	36	0.003553	0.002791	3.42E-06	0.000499	0.000459	0.000679	0.524628	
3	2019	Parking Lot	Street Light	Dump Truc	Diesel	600	0.59	24.26667	0.002302	0.00688	2.52E-05	0.000282	0.00026	0.0014	4.607882	
3	2019	Parking Lot	Street Light	Loader	Diesel	175	0.59	24.26667	0.001537	0.003586	8.02E-06	0.000352	0.000324	0.000513	1.34375	
3	2019	Parking Lot	Street Light	Other Gene	Diesel	175	0.43	24.26667	0.000879	0.003219	5.94E-06	0.000216	0.000199	0.000406	0.968706	
3	2019	Parking Lot	Street Light	Pickup Truc	Diesel	600	0.59	24.26667	0.002302	0.00688	2.52E-05	0.000282	0.00026	0.0014	4.607882	
3	2019	Parking Lot	Street Light	Skid Steer L	Diesel	75	0.21	24.26667	0.001939	0.002033	1.79E-06	0.000287	0.000264	0.000456	0.264961	
3	2019	Parking Lot	Street Light	Tractors/Lc	Diesel	100	0.21	24.26667	0.002395	0.001882	2.30E-06	0.000336	0.000309	0.000495	0.353638	
3	2019	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	85.00274	0.004175	0.009725	2.71E-05	0.000906	0.000834	0.001562	4.707308	
3	2019	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	598.1689	0.056733	0.169591	0.000622	0.006956	0.006399	0.033299	113.5834	
3	2019	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	85.00274	0.008062	0.0241	8.84E-05	0.000988	0.000909	0.004776	16.14076	
3	2019	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	82.82338	0.008164	0.008229	1.74E-05	0.001028	0.000945	0.00103	2.910421	
3	2019	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	96.10133	0.00472	0.010994	3.07E-05	0.001024	0.000942	0.001762	5.321929	
3	2019	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	96.10133	0.009115	0.027246	1.00E-04	0.001117	0.001028	0.005393	18.24822	
3	2019	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	96.10133	0.009115	0.027246	1.00E-04	0.001117	0.001028	0.005393	18.24822	
3	2019	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	4	0.000379	0.001134	4.16E-06	4.65E-05	4.28E-05	0.000274	0.759541	
3	2019	Parking Lot	Tree Planti	Other Gene	Diesel	175	0.43	4	0.000145	0.000531	9.78E-07	3.56E-05	3.27E-05	9.80E-05	0.159677	
3	2019	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	4	0.000379	0.001134	4.16E-06	4.65E-05	4.28E-05	0.000274	0.759541	
3	2019	Parking Lot	Tree Planti	Tractors/Lc	Diesel	100	0.21	4	0.000395	0.00031	3.80E-07	5.54E-05	5.10E-05	0.000179	0.058292	
3	2019	Taxiways	Asphalt Pla	Asphalt Pav	Diesel	175	0.59	16.71938	0.000968	0.002238	5.45E-06	0.000218	0.000201	0.000353	0.925852	
3	2019	Taxiways	Asphalt Pla	Dump Truc	Diesel	600	0.59	60.21609	0.005711	0.017072	6.26E-05	0.0007	0.000644	0.003398	11.43415	
3	2019	Taxiways	Asphalt Pla	Other Gene	Diesel	175	0.43	33.43875	0.001212	0.004435	8.18E-06	0.000297	0.000274	0.000545	1.334848	
3	2019	Taxiways	Asphalt Pla	Pickup Truc	Diesel	600	0.59	16.71938	0.001586	0.00474	1.74E-05	0.000194	0.000179	0.000981	3.174763	
3	2019	Taxiways	Asphalt Pla	Roller	Diesel	100	0.59	16.71938	0.001648	0.001661	3.51E-06	0.000207	0.000191	0.000233	0.58752	
3	2019	Taxiways	Asphalt Pla	Skid Steer L	Diesel	75	0.21	16.71938	0.001336	0.001401	1.23E-06	0.000197	0.000182	0.000337	0.182554	
3	2019	Taxiways	Asphalt Pla	Surfacing E	Diesel	25	0.59	21.4008	0.000831	0.001551	1.40E-06	0.000123	0.000113	0.000165	0.187732	
3	2019	Taxiways	Clearing an	Chain Saw	Diesel	11	0.7	37.2	0.092683	0.000418	4.43E-05	0.003078	0.002832	0.023282	0.196497	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	2019	Taxiways	Clearing an	Chipper/St	Diesel	100	0.43	37.2	0.003198	0.005712	6.19E-06	0.000561	0.000516	0.000723	0.94255	
3	2019	Taxiways	Clearing an	Pickup Truc	Diesel	600	0.59	49.6	0.004704	0.014062	5.16E-05	0.000577	0.000531	0.002808	9.418308	
3	2019	Taxiways	Drainage -	Dozer	Diesel	175	0.59	38.88	0.00191	0.004448	1.24E-05	0.000414	0.000381	0.000733	2.153109	
3	2019	Taxiways	Drainage -	Dump Truc	Diesel	600	0.59	38.88	0.003688	0.011023	4.04E-05	0.000452	0.000416	0.002212	7.382738	
3	2019	Taxiways	Drainage -	Excavator	Diesel	175	0.59	38.88	0.001487	0.00363	1.21E-05	0.000296	0.000272	0.000691	2.1532	
3	2019	Taxiways	Drainage -	Loader	Diesel	175	0.59	38.88	0.002463	0.005745	1.28E-05	0.000564	0.000519	0.000798	2.152953	
3	2019	Taxiways	Drainage -	Other Gene	Diesel	175	0.43	38.88	0.001409	0.005157	9.51E-06	0.000346	0.000318	0.000628	1.552058	
3	2019	Taxiways	Drainage -	Pickup Truc	Diesel	600	0.59	38.88	0.003688	0.011023	4.04E-05	0.000452	0.000416	0.002212	7.382738	
3	2019	Taxiways	Drainage -	Roller	Diesel	100	0.59	38.88	0.003832	0.003863	8.15E-06	0.000482	0.000444	0.0005	1.366247	
3	2019	Taxiways	Drainage - (	Dump Truc	Diesel	600	0.59	21.6	0.002049	0.006124	2.25E-05	0.000251	0.000231	0.001252	4.101521	
3	2019	Taxiways	Drainage - (	Loader	Diesel	175	0.59	21.6	0.001368	0.003192	7.14E-06	0.000313	0.000288	0.000462	1.196085	
3	2019	Taxiways	Drainage - (	Other Gene	Diesel	175	0.43	21.6	0.000783	0.002865	5.28E-06	0.000192	0.000177	0.000365	0.862255	
3	2019	Taxiways	Drainage - (	Pickup Truc	Diesel	600	0.59	21.6	0.002049	0.006124	2.25E-05	0.000251	0.000231	0.001252	4.101521	
3	2019	Taxiways	Drainage - (	Tractors/Lc	Diesel	100	0.21	21.6	0.002132	0.001675	2.05E-06	0.000299	0.000275	0.000454	0.314777	
3	2019	Taxiways	Dust Contr	Water Truc	Diesel	600	0.59	1440	0.136575	0.408266	0.001498	0.016745	0.015405	0.08009	273.4347	
3	2019	Taxiways	Excavation	Dozer	Diesel	175	0.59	74.308	0.00365	0.008501	2.37E-05	0.000792	0.000729	0.00137	4.115051	
3	2019	Taxiways	Excavation	Dump Truc	Diesel	600	0.59	74.308	0.007048	0.021068	7.73E-05	0.000864	0.000795	0.004182	14.10999	
3	2019	Taxiways	Excavation	Pickup Truc	Diesel	600	0.59	74.308	0.007048	0.021068	7.73E-05	0.000864	0.000795	0.004182	14.10999	
3	2019	Taxiways	Excavation	Roller	Diesel	100	0.59	34.296	0.003381	0.003407	7.19E-06	0.000426	0.000391	0.000445	1.205164	
3	2019	Taxiways	Excavation	Dozer	Diesel	175	0.59	55.731	0.002737	0.006376	1.78E-05	0.000594	0.000546	0.001036	3.086288	
3	2019	Taxiways	Excavation	Dump Truc	Diesel	600	0.59	148.616	0.014095	0.042135	0.000155	0.001728	0.00159	0.008312	28.21998	
3	2019	Taxiways	Excavation	Excavator	Diesel	175	0.59	44.5848	0.001706	0.004163	1.39E-05	0.000339	0.000312	0.000789	2.469136	
3	2019	Taxiways	Excavation	Pickup Truc	Diesel	600	0.59	44.5848	0.004229	0.012641	4.64E-05	0.000518	0.000477	0.002529	8.465995	
3	2019	Taxiways	Excavation	Roller	Diesel	100	0.59	44.5848	0.004395	0.00443	9.35E-06	0.000553	0.000509	0.000569	1.566714	
3	2019	Taxiways	Excavation	Scraper	Diesel	600	0.59	55.731	0.013595	0.033427	6.39E-05	0.002044	0.00188	0.003565	10.58159	
3	2019	Taxiways	Excavation	Dozer	Diesel	175	0.59	20.98118	0.00103	0.0024	6.70E-06	0.000224	0.000206	0.000411	1.161902	
3	2019	Taxiways	Fencing	Concrete T	Diesel	600	0.59	13.38889	0.00127	0.003796	1.39E-05	0.000156	0.000143	0.000796	2.542352	
3	2019	Taxiways	Fencing	Dump Truc	Diesel	600	0.59	53.55556	0.005079	0.015184	5.57E-05	0.000623	0.000573	0.003028	10.16941	
3	2019	Taxiways	Fencing	Other Gene	Diesel	175	0.43	53.55556	0.001941	0.007104	1.31E-05	0.000476	0.000438	0.000851	2.137895	
3	2019	Taxiways	Fencing	Pickup Truc	Diesel	600	0.59	53.55556	0.005079	0.015184	5.57E-05	0.000623	0.000573	0.003028	10.16941	
3	2019	Taxiways	Fencing	Skid Steer L	Diesel	75	0.21	53.55556	0.00428	0.004487	3.95E-06	0.000632	0.000582	0.000917	0.584759	
3	2019	Taxiways	Fencing	Tractors/Lc	Diesel	100	0.21	53.55556	0.005286	0.004153	5.08E-06	0.000742	0.000683	0.000953	0.780466	
3	2019	Taxiways	Grading	Dozer	Diesel	175	0.59	14.8352	0.000729	0.001697	4.74E-06	0.000158	0.000145	0.0003	0.821548	
3	2019	Taxiways	Grading	Grader	Diesel	300	0.59	14.8352	0.000802	0.002546	7.89E-06	0.000131	0.00012	0.000471	1.40843	
3	2019	Taxiways	Grading	Roller	Diesel	100	0.59	14.8352	0.001462	0.001474	3.11E-06	0.000184	0.000169	0.00021	0.52131	
3	2019	Taxiways	Hydroseedi	Hydroseed	Diesel	600	0.59	13.365	0.001268	0.003789	1.39E-05	0.000155	0.000143	0.000794	2.537816	
3	2019	Taxiways	Hydroseedi	Off-Road T	Diesel	600	0.59	13.365	0.001268	0.003789	1.39E-05	0.000155	0.000143	0.000794	2.537816	
3	2019	Taxiways	Lighting	Dump Truc	Diesel	600	0.59	17.4	0.00165	0.004933	1.81E-05	0.000202	0.000186	0.001018	3.304003	
3	2019	Taxiways	Lighting	Loader	Diesel	175	0.59	17.4	0.001102	0.002571	5.75E-06	0.000252	0.000232	0.00038	0.963513	
3	2019	Taxiways	Lighting	Other Gene	Diesel	175	0.43	17.4	0.00063	0.002308	4.26E-06	0.000155	0.000142	0.000302	0.694594	
3	2019	Taxiways	Lighting	Pickup Truc	Diesel	600	0.59	17.4	0.00165	0.004933	1.81E-05	0.000202	0.000186	0.001018	3.304003	
3	2019	Taxiways	Lighting	Skid Steer L	Diesel	75	0.21	17.4	0.001391	0.001458	1.28E-06	0.000205	0.000189	0.000348	0.189986	
3	2019	Taxiways	Lighting	Tractors/Lc	Diesel	100	0.21	17.4	0.001717	0.001349	1.65E-06	0.000241	0.000222	0.000388	0.25357	
3	2019	Taxiways	Markings	Flatbed Tru	Diesel	600	0.59	275.4286	0.026123	0.078089	0.000287	0.003203	0.002947	0.01536	52.29982	
3	2019	Taxiways	Markings	Other Gene	Diesel	175	0.43	275.4286	0.00998	0.036534	6.74E-05	0.00245	0.002254	0.004223	10.99489	
3	2019	Taxiways	Markings	Pickup Truc	Diesel	600	0.59	275.4286	0.026123	0.078089	0.000287	0.003203	0.002947	0.01536	52.29982	
3	2019	Taxiways	Soil Erosior	Other Gene	Diesel	175	0.43	12.4	0.000449	0.001645	3.03E-06	0.00011	0.000101	0.000226	0.494998	
3	2019	Taxiways	Soil Erosior	Pickup Truc	Diesel	600	0.59	24.8	0.002352	0.007031	2.58E-05	0.000288	0.000265	0.00143	4.709154	
3	2019	Taxiways	Soil Erosior	Pumps	Diesel	11	0.43	12.4	0.000288	0.000301	2.56E-07	2.80E-05	2.57E-05	4.44E-05	0.034511	
3	2019	Taxiways	Soil Erosior	Tractors/Lc	Diesel	100	0.21	12.4	0.001224	0.000961	1.18E-06	0.000172	0.000158	0.00031	0.180705	
3	2019	Taxiways	Subbase Pl	Dozer	Diesel	175	0.59	28.15895	0.001383	0.003222	8.99E-06	0.0003	0.000276	0.00054	1.559395	
3	2019	Taxiways	Subbase Pl	Dump Truc	Diesel	600	0.59	198.1556	0.018794	0.056181	0.000206	0.002304	0.00212	0.011065	37.62681	
3	2019	Taxiways	Subbase Pl	Pickup Truc	Diesel	600	0.59	28.15895	0.002671	0.007984	2.93E-05	0.000327	0.000301	0.001616	5.346968	
3	2019	Taxiways	Subbase Pl	Roller	Diesel	100	0.59	27.43692	0.002705	0.002726	5.75E-06	0.00034	0.000313	0.000362	0.964136	

ACEIT Output - Default Asphalt Application Rates

3	2019	Taxiways	Topsoil Pla	Dozer	Diesel	175	0.59	32.96667	0.001619	0.003772	1.05E-05	0.000351	0.000323	0.000626	1.825638
3	2019	Taxiways	Topsoil Pla	Dump Truc	Diesel	600	0.59	32.96667	0.003127	0.009347	3.43E-05	0.000383	0.000353	0.001884	6.259883
3	2019	Taxiways	Topsoil Pla	Pickup Truc	Diesel	600	0.59	32.96667	0.003127	0.009347	3.43E-05	0.000383	0.000353	0.001884	6.259883

On-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Scenario ID	Year	Project	Equipment	Equipment	On-road Ac	Fuel	Roadway T	Round Trip	Distance fo	Number of	Number of	Number of	Project Len	Project Wic	Project Are	Building He	Open Spac	Number of	Activity Rat	VMT	CO	NOx	SO2	PM10	PM2.5
1	2018	Cargo Apro	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--	43	428	250	--	--	--	--	--	1553	0.00203	0.003616	2.74E-05	6.43E-05	6.24E-05
1	2018	Cargo Apro	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	8	--	43	428	250	--	--	--	--	--	24744	0.021229	0.03378	0.000234	0.000466	0.000452
1	2018	Cargo Apro	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--	43	428	250	--	--	--	--	--	2199	0.002254	0.003122	2.09E-05	4.14E-05	4.01E-05
1	2018	Cargo Apro	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	4	--	43	428	250	--	--	--	--	--	13197	0.010983	0.017905	0.000125	0.000248	0.000241
1	2018	Cargo Apro	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	69	69	43	--	--	--	--	--	--	--	89010	0.713096	0.01521	0.00052	0.001711	0.001575
1	2018	Parking Lot	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--	43	970	150	--	--	--	--	--	2111	0.002311	0.004763	3.72E-05	8.74E-05	8.48E-05
1	2018	Parking Lot	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	10	--	43	970	150	--	--	--	--	--	33647	0.02775	0.045569	0.000319	0.000633	0.000614
1	2018	Parking Lot	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--	43	970	150	--	--	--	--	--	2991	0.002608	0.004097	2.83E-05	5.63E-05	5.46E-05
1	2018	Parking Lot	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	6	--	43	970	150	--	--	--	--	--	17945	0.015648	0.02458	0.00017	0.000338	0.000328
1	2018	Parking Lot	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	77	77	43	--	--	--	--	--	--	--	99330	0.795774	0.016974	0.00058	0.001909	0.001758
1	2018	Rehabilitat	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	4	--	43	3675	250	--	--	--	--	--	13331	0.011713	0.029094	0.000235	0.000552	0.000535
1	2018	Rehabilitat	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	62	--	43	3675	250	--	--	--	--	--	212461	0.17377	0.287267	0.002011	0.003998	0.003878
1	2018	Rehabilitat	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	6	--	43	3675	250	--	--	--	--	--	18885	0.016068	0.025737	0.000179	0.000355	0.000345
1	2018	Rehabilitat	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	33	--	43	3675	250	--	--	--	--	--	113313	0.092593	0.153182	0.001073	0.002132	0.002068
1	2018	Rehabilitat	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	49	49	43	--	--	--	--	--	--	--	63210	0.506401	0.010802	0.000369	0.001215	0.001119
2	2019	Building - 1	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	5	--	65	--	--	100000	--	--	--	--	23125	0.031687	0.062871	0.000225	0.002153	0.002089
2	2019	Building - 1	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	3	--	65	--	--	100000	--	--	--	--	12333	0.017541	0.033739	0.00012	0.001149	0.001115
2	2019	Building - 1	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	137.5	137.5	65	--	--	--	--	--	--	--	268125	2.254938	0.075501	0.001763	0.005399	0.004972
2	2019	Building - 1	Tractor Tra	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--	65	--	--	100000	--	--	--	0.0024	2400	0.005601	0.014607	4.39E-05	0.000659	0.00064
2	2019	Cargo Apro	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--	65	642	250	--	--	--	--	--	2329	0.005491	0.014193	4.27E-05	0.00064	0.000621
2	2019	Cargo Apro	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	8	--	65	642	250	--	--	--	--	--	37116	0.05081	0.100893	0.00036	0.003456	0.003353
2	2019	Cargo Apro	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--	65	642	250	--	--	--	--	--	3299	0.005072	0.009149	3.21E-05	0.000308	0.000299
2	2019	Cargo Apro	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	4	--	65	642	250	--	--	--	--	--	19795	0.026585	0.053642	0.000192	0.001843	0.001788
2	2019	Cargo Apro	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	69	69	65	--	--	--	--	--	--	--	134550	1.131569	0.037888	0.000884	0.002709	0.002495
2	2019	Parking Lot	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--	65	1455	150	--	--	--	--	--	3167	0.006788	0.01907	5.79E-05	0.000869	0.000843
2	2019	Parking Lot	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	10	--	65	1455	150	--	--	--	--	--	50470	0.0674	0.136642	0.00049	0.004698	0.004557
2	2019	Parking Lot	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--	65	1455	150	--	--	--	--	--	4486	0.006205	0.012215	4.36E-05	0.000418	0.000405
2	2019	Parking Lot	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	6	--	65	1455	150	--	--	--	--	--	26918	0.037231	0.073296	0.000261	0.002507	0.002432
2	2019	Parking Lot	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	77	77	65	--	--	--	--	--	--	--	150150	1.262765	0.04228	0.000987	0.003024	0.002784
3	2019	Building - 1	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	3	--	129	--	--	100000	--	--	--	--	23125	0.031991	0.048683	0.000247	0.002157	0.002092
3	2019	Building - 1	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	2	--	129	--	--	100000	--	--	--	--	12333	0.018385	0.025972	0.000132	0.001152	0.001117
3	2019	Building - 1	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	137.5	137.5	129	--	--	--	--	--	--	--	532125	1.788896	0.131765	0.003258	0.00319	0.002937
3	2019	Building - 1	Tractor Tra	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--	129	--	--	100000	--	--	--	0.0024	2400	0.006921	0.011424	4.74E-05	0.000663	0.000643
3	2019	Cargo Apro	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--	129	855	250	--	--	--	--	--	3101	0.008006	0.014744	6.12E-05	0.000854	0.000829
3	2019	Cargo Apro	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	5	--	129	855	250	--	--	--	--	--	49430	0.063707	0.104031	0.000528	0.004605	0.004467
3	2019	Cargo Apro	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--	129	855	250	--	--	--	--	--	4394	0.007502	0.009259	4.71E-05	0.000411	0.000399
3	2019	Cargo Apro	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	3	--	129	855	250	--	--	--	--	--	26363	0.03508	0.055491	0.000281	0.002457	0.002384
3	2019	Cargo Apro	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	69	69	129	--	--	--	--	--	--	--	267030	0.8977	0.066122	0.001635	0.001601	0.001474
3	2019	Drainage S	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	27	27	129	--	--	--	--	--	--	--	104490	0.351274	0.025874	0.00064	0.000626	0.000577
3	2019	Fuel Tanks	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--	129	415	100	--	--	--	--	--	602	0.004137	0.002907	1.21E-05	0.000171	0.000166
3	2019	Fuel Tanks	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--	129	415	100	--	--	--	--	--	9597	0.012466	0.020199	0.000102	0.000894	0.000867
3	2019	Fuel Tanks	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--	129	415	100	--	--	--	--	--	853	0.004123	0.001814	9.37E-06	8.29E-05	8.04E-05
3	2019	Fuel Tanks	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--	129	415	100	--	--	--	--	--	5118	0.008192	0.010781	5.48E-05	0.000479	0.000464
3	2019	Fuel Tanks	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	64	64	129	--	--	--	--	--	--	--	247680	0.83265	0.061331	0.001516	0.001485	0.001367
3	2019	Parking Lot	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--	129	2425	150	--	--	--	--	--	5278	0.011377	0.025056	0.000104	0.00145	0.001407
3	2019	Parking Lot	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	9	--	129	2425	150	--	--	--	--	--	84117	0.110038	0.177043	0.000898	0.007838	0.007603
3	2019	Parking Lot	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--	129	2425	150	--	--	--	--	--	7477	0.010443	0.015741	7.99E-05	0.000697	0.000677
3	2019	Parking Lot	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	5	--	129	2425	150	--	--	--	--	--	44863	0.05935	0.094428	0.000479	0.004181	0.004056
3	2019	Parking Lot	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	77	77	129	--	--	--	--	--	--	--	297990	1.001782	0.073788	0.001825	0.001786	0.001645
3	2019	Taxiways	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--	129	1205	100	--	--	--	--	--	1748	0.005912	0.008336	3.46E-05	0.000484	0.00047
3	2019	Taxiways	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	3	--	129	1205	100	--	--	--	--	--	27866	0.036514	0.058651	0.000297	0.002597	0.002519
3	2019	Taxiways	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--	129	1205	100	--	--	--	--	--	2477	0.005673	0.005229	2.67E-05	0.000234	0.000227
3	2019	Taxiways	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	2	--	129	1205	100	--	--	--	--	--	14862	0.020798	0.031289	0.000159	0.001386	0.001345
3	2019	Taxiways	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	65	65	129	--	--	--	--	--	--	--	251550	0.84566	0.062289	0.00154	0.001508	0.001389

Fugitive Sources
Units for Non-Greenhouse Gases Emission: Short Ton

Scenario ID	Year	Project	Fugitive So	Number of	CO	NOx	SO2	PM10	VOC
1	2018	Cargo Apro	Concrete M	2	0	0	0	0.09155	0
1	2018	Cargo Apro	Material M	2	0	0	0	0.01395	0
1	2018	Cargo Apro	Material M	2	0	0	0	0.04535	0
1	2018	Cargo Apro	Soil Handli	2	0	0	0	0.0303	0
1	2018	Cargo Apro	Unstabilize	2	0	0	0	7.20E-09	0
1	2018	Parking Lot	Asphalt Dry	2	0	0	0	0	5.39765
1	2018	Parking Lot	Asphalt Sto	2	0.35205	0.022	0.004045	0.0241	0.0109
1	2018	Parking Lot	Material M	2	0	0	0	0.01795	0
1	2018	Parking Lot	Material M	2	0	0	0	0.05955	0
1	2018	Parking Lot	Soil Handli	2	0	0	0	0.0412	0
1	2018	Parking Lot	Unstabilize	2	0	0	0	9.79E-09	0
1	2018	Rehabilitat	Asphalt Dry	2	0	0	0	0	34.0832
1	2018	Rehabilitat	Asphalt Sto	2	2.223	0.1388	0.02555	0.15225	0.06885
1	2018	Rehabilitat	Material M	2	0	0	0	0.1048	0
1	2018	Rehabilitat	Material M	2	0	0	0	0.3173	0
1	2018	Rehabilitat	Soil Handli	2	0	0	0	0.26005	0
1	2018	Rehabilitat	Unstabilize	2	0	0	0	6.18E-08	0
2	2019	Building - 1	Concrete M	3	0	0	0	0.08555	0
2	2019	Building - 1	Material M	3	0	0	0	0.01205	0
2	2019	Building - 1	Material M	3	0	0	0	0.03695	0
2	2019	Cargo Apro	Concrete M	3	0	0	0	0.13735	0
2	2019	Cargo Apro	Material M	3	0	0	0	0.0211	0
2	2019	Cargo Apro	Material M	3	0	0	0	0.06845	0
2	2019	Cargo Apro	Soil Handli	3	0	0	0	0.04545	0
2	2019	Cargo Apro	Unstabilize	3	0	0	0	1.62E-08	0
2	2019	Parking Lot	Asphalt Dry	3	0	0	0	0	8.0965
2	2019	Parking Lot	Asphalt Sto	3	0.52805	0.03295	0.00605	0.03615	0.01635
2	2019	Parking Lot	Material M	3	0	0	0	0.02715	0
2	2019	Parking Lot	Material M	3	0	0	0	0.0899	0
2	2019	Parking Lot	Soil Handli	3	0	0	0	0.06175	0
2	2019	Parking Lot	Unstabilize	3	0	0	0	2.20E-08	0
3	2019	Building - 1	Concrete M	6	0	0	0	0.08555	0
3	2019	Building - 1	Material M	6	0	0	0	0.01495	0
3	2019	Building - 1	Material M	6	0	0	0	0.04555	0
3	2019	Cargo Apro	Concrete M	6	0	0	0	0.1829	0
3	2019	Cargo Apro	Material M	6	0	0	0	0.02995	0
3	2019	Cargo Apro	Material M	6	0	0	0	0.0965	0
3	2019	Cargo Apro	Soil Handli	6	0	0	0	0.0605	0
3	2019	Cargo Apro	Unstabilize	6	0	0	0	4.31E-08	0
3	2019	Drainage S	Material M	6	0	0	0	0	0
3	2019	Drainage S	Material M	6	0	0	0	0.001933	0
3	2019	Drainage S	Soil Handli	6	0	0	0	0.003397	0
3	2019	Drainage S	Unstabilize	6	0	0	0	2.42E-09	0
3	2019	Fuel Tanks	Concrete M	6	0	0	0	0.0355	0
3	2019	Fuel Tanks	Material M	6	0	0	0	0.01195	0
3	2019	Fuel Tanks	Material M	6	0	0	0	0.0393	0
3	2019	Fuel Tanks	Soil Handli	6	0	0	0	0.01175	0
3	2019	Fuel Tanks	Unstabilize	6	0	0	0	8.37E-09	0
3	2019	Parking Lot	Asphalt Dry	6	0	0	0	0	13.49415
3	2019	Parking Lot	Asphalt Sto	6	0.8801	0.05495	0.0101	0.06025	0.02725
3	2019	Parking Lot	Material M	6	0	0	0	0.0479	0
3	2019	Parking Lot	Material M	6	0	0	0	0.15765	0
3	2019	Parking Lot	Soil Handli	6	0	0	0	0.10295	0
3	2019	Parking Lot	Unstabilize	6	0	0	0	7.34E-08	0
3	2019	Taxiways	Asphalt Dry	6	0	0	0	0	4.47025
3	2019	Taxiways	Asphalt Sto	6	0.29155	0.0182	0.00335	0.01995	0.00905
3	2019	Taxiways	Material M	6	0	0	0	0.02095	0
3	2019	Taxiways	Material M	6	0	0	0	0.0676	0
3	2019	Taxiways	Soil Handli	6	0	0	0	0.0341	0
3	2019	Taxiways	Unstabilize	6	0	0	0	2.43E-08	0

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INPUT DATA AND SPECIFICATIONS

State/County
Maryland
Anne Arundel County

Scenarios

Scenario ID	Year	Number of	Season	Average Da	Max Daily T	Min Daily Temp Change (degF)
1	2018	2	Winter	30 < T <= 5	0 <= Chang	0 <= Change in T < 10
2	2019	3	Winter	30 < T <= 5	0 <= Chang	0 <= Change in T < 10
3	2019	6	Summer	50 < T <= 8	10 <= Chan	10 <= Change in T < 20
4						

Project Final Selections

Scenario ID	Project	Constructic	Equipment	Fuel Type	
1	Cargo Apro	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Cargo Apro	Clearing an	Chipper/St	Diesel	
1	Cargo Apro	Clearing an	Pickup Truc	Diesel	

ACEIT Output - Default Asphalt Application Rates

1	Cargo Apro	Concrete P	Air Compre	Diesel	
1	Cargo Apro	Concrete P	Concrete S	Diesel	
1	Cargo Apro	Concrete P	Concrete T	Diesel	
1	Cargo Apro	Concrete P	Other Gene	Diesel	
1	Cargo Apro	Concrete P	Pickup Truc	Diesel	
1	Cargo Apro	Concrete P	Rubber Tire	Diesel	
1	Cargo Apro	Concrete P	Slip Form P	Diesel	
1	Cargo Apro	Concrete P	Surfacing E	Diesel	
1	Cargo Apro	Drainage -	Dozer	Diesel	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	
1	Cargo Apro	Drainage -	Excavator	Diesel	
1	Cargo Apro	Drainage -	Loader	Diesel	
1	Cargo Apro	Drainage -	Other Gene	Diesel	
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	
1	Cargo Apro	Drainage -	Roller	Diesel	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	
1	Cargo Apro	Drainage -	Loader	Diesel	
1	Cargo Apro	Drainage -	Other Gene	Diesel	
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	
1	Cargo Apro	Drainage -	Tractors/Lc	Diesel	
1	Cargo Apro	Dust Contr	Water Truc	Diesel	
1	Cargo Apro	Excavation	Dozer	Diesel	
1	Cargo Apro	Excavation	Dump Truc	Diesel	
1	Cargo Apro	Excavation	Pickup Truc	Diesel	
1	Cargo Apro	Excavation	Roller	Diesel	
1	Cargo Apro	Excavation	Dozer	Diesel	
1	Cargo Apro	Excavation	Dump Truc	Diesel	
1	Cargo Apro	Excavation	Excavator	Diesel	
1	Cargo Apro	Excavation	Pickup Truc	Diesel	
1	Cargo Apro	Excavation	Roller	Diesel	
1	Cargo Apro	Excavation	Scraper	Diesel	
1	Cargo Apro	Excavation	Dozer	Diesel	
1	Cargo Apro	Fencing	Concrete T	Diesel	
1	Cargo Apro	Fencing	Dump Truc	Diesel	
1	Cargo Apro	Fencing	Other Gene	Diesel	
1	Cargo Apro	Fencing	Pickup Truc	Diesel	
1	Cargo Apro	Fencing	Skid Steer l	Diesel	
1	Cargo Apro	Fencing	Tractors/Lc	Diesel	
1	Cargo Apro	Grading	Dozer	Diesel	
1	Cargo Apro	Grading	Grader	Diesel	
1	Cargo Apro	Grading	Roller	Diesel	
1	Cargo Apro	Hydroseed	Hydroseed	Diesel	
1	Cargo Apro	Hydroseed	Off-Road T	Diesel	
1	Cargo Apro	Lighting	Dump Truc	Diesel	
1	Cargo Apro	Lighting	Loader	Diesel	
1	Cargo Apro	Lighting	Other Gene	Diesel	
1	Cargo Apro	Lighting	Pickup Truc	Diesel	
1	Cargo Apro	Lighting	Skid Steer l	Diesel	
1	Cargo Apro	Lighting	Tractors/Lc	Diesel	
1	Cargo Apro	Markings	Flatbed Tru	Diesel	
1	Cargo Apro	Markings	Other Gene	Diesel	
1	Cargo Apro	Markings	Pickup Truc	Diesel	
1	Cargo Apro	Sealing/Fue	Distributing	Diesel	
1	Cargo Apro	Sealing/Fue	Other Gene	Diesel	
1	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	
1	Cargo Apro	Soil Erosior	Other Gene	Diesel	
1	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	
1	Cargo Apro	Soil Erosior	Pumps	Diesel	
1	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	
1	Cargo Apro	Subbase Pl	Dozer	Diesel	
1	Cargo Apro	Subbase Pl	Dump Truc	Diesel	
1	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	
1	Cargo Apro	Subbase Pl	Roller	Diesel	
1	Cargo Apro	Topsoil Pla	Dozer	Diesel	
1	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	
1	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	
1	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	
1	Parking Lot	Asphalt Pla	Dump Truc	Diesel	
1	Parking Lot	Asphalt Pla	Other Gene	Diesel	
1	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	
1	Parking Lot	Asphalt Pla	Roller	Diesel	
1	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	
1	Parking Lot	Asphalt Pla	Surfacing E	Diesel	
1	Parking Lot	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Parking Lot	Clearing an	Chipper/St	Diesel	
1	Parking Lot	Clearing an	Pickup Truc	Diesel	
1	Parking Lot	Curbing	Concrete T	Diesel	
1	Parking Lot	Curbing	Curb/Gutte	Diesel	
1	Parking Lot	Curbing	Other Gene	Diesel	
1	Parking Lot	Curbing	Pickup Truc	Diesel	
1	Parking Lot	Drainage -	Dozer	Diesel	
1	Parking Lot	Drainage -	Dump Truc	Diesel	
1	Parking Lot	Drainage -	Excavator	Diesel	
1	Parking Lot	Drainage -	Loader	Diesel	
1	Parking Lot	Drainage -	Other Gene	Diesel	
1	Parking Lot	Drainage -	Pickup Truc	Diesel	
1	Parking Lot	Drainage -	Roller	Diesel	
1	Parking Lot	Drainage -	Dump Truc	Diesel	
1	Parking Lot	Drainage -	Loader	Diesel	
1	Parking Lot	Drainage -	Other Gene	Diesel	
1	Parking Lot	Drainage -	Pickup Truc	Diesel	
1	Parking Lot	Drainage -	Tractors/Lc	Diesel	
1	Parking Lot	Excavation	Dozer	Diesel	
1	Parking Lot	Excavation	Dump Truc	Diesel	
1	Parking Lot	Excavation	Pickup Truc	Diesel	
1	Parking Lot	Excavation	Roller	Diesel	
1	Parking Lot	Excavation	Dozer	Diesel	
1	Parking Lot	Excavation	Dump Truc	Diesel	
1	Parking Lot	Excavation	Excavator	Diesel	
1	Parking Lot	Excavation	Pickup Truc	Diesel	
1	Parking Lot	Excavation	Roller	Diesel	
1	Parking Lot	Excavation	Scraper	Diesel	
1	Parking Lot	Excavation	Dozer	Diesel	
1	Parking Lot	Fencing	Concrete T	Diesel	
1	Parking Lot	Fencing	Dump Truc	Diesel	
1	Parking Lot	Fencing	Other Gene	Diesel	
1	Parking Lot	Fencing	Pickup Truc	Diesel	
1	Parking Lot	Fencing	Skid Steer l	Diesel	
1	Parking Lot	Fencing	Tractors/Lc	Diesel	
1	Parking Lot	Grading	Dozer	Diesel	
1	Parking Lot	Grading	Grader	Diesel	
1	Parking Lot	Grading	Roller	Diesel	
1	Parking Lot	Hydroseed	Hydroseed	Diesel	
1	Parking Lot	Hydroseed	Off-Road T	Diesel	
1	Parking Lot	Markings	Flatbed Tru	Diesel	
1	Parking Lot	Markings	Other Gene	Diesel	
1	Parking Lot	Markings	Pickup Truc	Diesel	
1	Parking Lot	Sidewalks	Concrete T	Diesel	
1	Parking Lot	Sidewalks	Dump Truc	Diesel	
1	Parking Lot	Sidewalks	Pickup Truc	Diesel	
1	Parking Lot	Sidewalks	Tractors/Lc	Diesel	
1	Parking Lot	Sidewalks	Vibratory C	Diesel	
1	Parking Lot	Soil Erosior	Other Gene	Diesel	
1	Parking Lot	Soil Erosior	Pickup Truc	Diesel	
1	Parking Lot	Soil Erosior	Pumps	Diesel	
1	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	
1	Parking Lot	Street Light	Dump Truc	Diesel	
1	Parking Lot	Street Light	Loader	Diesel	
1	Parking Lot	Street Light	Other Gene	Diesel	
1	Parking Lot	Street Light	Pickup Truc	Diesel	
1	Parking Lot	Street Light	Skid Steer l	Diesel	
1	Parking Lot	Street Light	Tractors/Lc	Diesel	
1	Parking Lot	Subbase Pl	Dozer	Diesel	
1	Parking Lot	Subbase Pl	Dump Truc	Diesel	
1	Parking Lot	Subbase Pl	Pickup Truc	Diesel	
1	Parking Lot	Subbase Pl	Roller	Diesel	
1	Parking Lot	Topsoil Pla	Dozer	Diesel	
1	Parking Lot	Topsoil Pla	Dump Truc	Diesel	
1	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	
1	Parking Lot	Tree Planti	Flatbed Tru	Diesel	
1	Parking Lot	Tree Planti	Other Gene	Diesel	
1	Parking Lot	Tree Planti	Pickup Truc	Diesel	
1	Parking Lot	Tree Planti	Tractors/Lc	Diesel	
1	Rehabilitat	Asphalt Pla	Asphalt Pa	Diesel	
1	Rehabilitat	Asphalt Pla	Dump Truc	Diesel	
1	Rehabilitat	Asphalt Pla	Other Gene	Diesel	
1	Rehabilitat	Asphalt Pla	Pickup Truc	Diesel	
1	Rehabilitat	Asphalt Pla	Roller	Diesel	
1	Rehabilitat	Asphalt Pla	Skid Steer l	Diesel	
1	Rehabilitat	Asphalt Pla	Surfacing E	Diesel	
1	Rehabilitat	Cold Millin	Cold Plane	Diesel	
1	Rehabilitat	Cold Millin	Dump Truc	Diesel	
1	Rehabilitat	Cold Millin	Pickup Truc	Diesel	

ACEIT Output - Default Asphalt Application Rates

1	Rehabilitat	Cold Millin	Sweepers	Diesel	
1	Rehabilitat	Cold Millin	Water Truc	Diesel	
1	Rehabilitat	Dust Contr	Water Truc	Diesel	
1	Rehabilitat	Excavation	Dozer	Diesel	
1	Rehabilitat	Excavation	Dump Truc	Diesel	
1	Rehabilitat	Excavation	Excavator	Diesel	
1	Rehabilitat	Excavation	Pickup Truc	Diesel	
1	Rehabilitat	Excavation	Roller	Diesel	
1	Rehabilitat	Excavation	Dozer	Diesel	
1	Rehabilitat	Grading	Dozer	Diesel	
1	Rehabilitat	Grading	Grader	Diesel	
1	Rehabilitat	Grading	Roller	Diesel	
1	Rehabilitat	Hydroseed	Hydroseed	Diesel	
1	Rehabilitat	Hydroseed	Off-Road T	Diesel	
1	Rehabilitat	Lighting	Dump Truc	Diesel	
1	Rehabilitat	Lighting	Loader	Diesel	
1	Rehabilitat	Lighting	Other Gen	Diesel	
1	Rehabilitat	Lighting	Pickup Truc	Diesel	
1	Rehabilitat	Lighting	Skid Steer l	Diesel	
1	Rehabilitat	Lighting	Tractors/Lc	Diesel	
1	Rehabilitat	Markings	Flatbed Tru	Diesel	
1	Rehabilitat	Markings	Other Gen	Diesel	
1	Rehabilitat	Markings	Pickup Truc	Diesel	
1	Rehabilitat	Sealing Rar	Crack Clear	Diesel	
1	Rehabilitat	Sealing Rar	Crack Filler	Diesel	
1	Rehabilitat	Sealing Rar	Flatbed Tru	Diesel	
1	Rehabilitat	Sealing Rar	Other Gen	Diesel	
1	Rehabilitat	Sealing Rar	Pickup Truc	Diesel	
1	Rehabilitat	Soil Erosior	Other Gen	Diesel	
1	Rehabilitat	Soil Erosior	Pickup Truc	Diesel	
1	Rehabilitat	Soil Erosior	Pumps	Diesel	
1	Rehabilitat	Soil Erosior	Tractors/Lc	Diesel	
1	Rehabilitat	Subbase Pl	Dozer	Diesel	
1	Rehabilitat	Subbase Pl	Dump Truc	Diesel	
1	Rehabilitat	Subbase Pl	Pickup Truc	Diesel	
1	Rehabilitat	Subbase Pl	Roller	Diesel	
1	Rehabilitat	Topsoil Pla	Dozer	Diesel	
1	Rehabilitat	Topsoil Pla	Dump Truc	Diesel	
1	Rehabilitat	Topsoil Pla	Pickup Truc	Diesel	
2	Building - 1	Concrete F	Backhoe	Diesel	
2	Building - 1	Concrete F	Concrete P	Diesel	
2	Building - 1	Concrete F	Concrete R	Diesel	
2	Building - 1	Concrete F	Excavator	Diesel	
2	Building - 1	Concrete F	Fork Truck	Diesel	
2	Building - 1	Concrete F	Tool Truck	Diesel	
2	Building - 1	Concrete F	Tractor Tra	Diesel	
2	Building - 1	Constructic	Survey Cre	Diesel	
2	Building - 1	Constructic	Tractor Tra	Diesel	
2	Building - 1	Exterior W	Fork Truck	Diesel	
2	Building - 1	Exterior W	Generator	Diesel	
2	Building - 1	Exterior W	Grout Mixe	Diesel	
2	Building - 1	Exterior W	Grout Whe	Diesel	
2	Building - 1	Exterior W	Man Lift	Diesel	
2	Building - 1	Exterior W	Tool Truck	Diesel	
2	Building - 1	Exterior W	Tractor Tra	Diesel	
2	Building - 1	Exterior W	Truck Tow	Diesel	
2	Building - 1	Interior Bui	Fork Truck	Diesel	
2	Building - 1	Interior Bui	Man Lift	Diesel	
2	Building - 1	Interior Bui	Tool Truck	Diesel	
2	Building - 1	Interior Bui	Tractor Tra	Diesel	
2	Building - 1	Roofing	High Lift	Diesel	
2	Building - 1	Roofing	Man Lift	Diesel	
2	Building - 1	Roofing	Material D	Diesel	
2	Building - 1	Roofing	Tractor Tra	Diesel	
2	Building - 1	Roofing	Truck Tow	Diesel	
2	Building - 1	Security &	High Lift	Diesel	
2	Building - 1	Security &	Tool Truck	Diesel	
2	Building - 1	Structural S	90 Ton Cra	Diesel	
2	Building - 1	Structural S	Concrete P	Diesel	
2	Building - 1	Structural S	Concrete T	Diesel	
2	Building - 1	Structural S	Fork Truck	Diesel	
2	Building - 1	Structural S	Tool Truck	Diesel	
2	Building - 1	Structural S	Tractor Tra	Diesel	
2	Building - 1	Structural S	Trowel Ma	Diesel	
2	Building - 1	Structural S	Truck Tow	Diesel	
2	Cargo Apro	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	Cargo Apro	Clearing an	Chipper/St	Diesel	
2	Cargo Apro	Clearing an	Pickup Truc	Diesel	
2	Cargo Apro	Concrete P	Air Compre	Diesel	
2	Cargo Apro	Concrete P	Concrete S	Diesel	
2	Cargo Apro	Concrete P	Concrete T	Diesel	
2	Cargo Apro	Concrete P	Other Gen	Diesel	
2	Cargo Apro	Concrete P	Pickup Truc	Diesel	
2	Cargo Apro	Concrete P	Rubber Tir	Diesel	
2	Cargo Apro	Concrete P	Slip Form P	Diesel	
2	Cargo Apro	Concrete P	Surfacing E	Diesel	
2	Cargo Apro	Drainage -	Dozer	Diesel	
2	Cargo Apro	Drainage -	Dump Truc	Diesel	
2	Cargo Apro	Drainage -	Excavator	Diesel	
2	Cargo Apro	Drainage -	Loader	Diesel	
2	Cargo Apro	Drainage -	Other Gen	Diesel	
2	Cargo Apro	Drainage -	Pickup Truc	Diesel	
2	Cargo Apro	Drainage -	Roller	Diesel	
2	Cargo Apro	Drainage -	Dump Truc	Diesel	
2	Cargo Apro	Drainage -	Loader	Diesel	
2	Cargo Apro	Drainage -	Other Gen	Diesel	
2	Cargo Apro	Drainage -	Pickup Truc	Diesel	
2	Cargo Apro	Drainage -	Tractors/Lc	Diesel	
2	Cargo Apro	Dust Contr	Water Truc	Diesel	
2	Cargo Apro	Excavation	Dozer	Diesel	
2	Cargo Apro	Excavation	Dump Truc	Diesel	
2	Cargo Apro	Excavation	Pickup Truc	Diesel	
2	Cargo Apro	Excavation	Roller	Diesel	
2	Cargo Apro	Excavation	Dozer	Diesel	
2	Cargo Apro	Excavation	Dump Truc	Diesel	
2	Cargo Apro	Excavation	Excavator	Diesel	
2	Cargo Apro	Excavation	Pickup Truc	Diesel	
2	Cargo Apro	Excavation	Roller	Diesel	
2	Cargo Apro	Excavation	Scraper	Diesel	
2	Cargo Apro	Excavation	Dozer	Diesel	
2	Cargo Apro	Fencing	Concrete T	Diesel	
2	Cargo Apro	Fencing	Dump Truc	Diesel	
2	Cargo Apro	Fencing	Other Gen	Diesel	
2	Cargo Apro	Fencing	Pickup Truc	Diesel	
2	Cargo Apro	Fencing	Skid Steer l	Diesel	
2	Cargo Apro	Fencing	Tractors/Lc	Diesel	
2	Cargo Apro	Grading	Dozer	Diesel	
2	Cargo Apro	Grading	Grader	Diesel	
2	Cargo Apro	Grading	Roller	Diesel	
2	Cargo Apro	Hydroseed	Hydroseed	Diesel	
2	Cargo Apro	Hydroseed	Off-Road T	Diesel	
2	Cargo Apro	Lighting	Dump Truc	Diesel	
2	Cargo Apro	Lighting	Loader	Diesel	
2	Cargo Apro	Lighting	Other Gen	Diesel	
2	Cargo Apro	Lighting	Pickup Truc	Diesel	
2	Cargo Apro	Lighting	Skid Steer l	Diesel	
2	Cargo Apro	Lighting	Tractors/Lc	Diesel	
2	Cargo Apro	Markings	Flatbed Tru	Diesel	
2	Cargo Apro	Markings	Other Gen	Diesel	
2	Cargo Apro	Markings	Pickup Truc	Diesel	
2	Cargo Apro	Sealing/Fue	Distributin	Diesel	
2	Cargo Apro	Sealing/Fue	Other Gen	Diesel	
2	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	
2	Cargo Apro	Soil Erosior	Other Gen	Diesel	
2	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	
2	Cargo Apro	Soil Erosior	Pumps	Diesel	
2	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	
2	Cargo Apro	Subbase Pl	Dozer	Diesel	
2	Cargo Apro	Subbase Pl	Dump Truc	Diesel	
2	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	
2	Cargo Apro	Subbase Pl	Roller	Diesel	
2	Cargo Apro	Topsoil Pla	Dozer	Diesel	
2	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	
2	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	
2	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	
2	Parking Lot	Asphalt Pla	Dump Truc	Diesel	
2	Parking Lot	Asphalt Pla	Other Gen	Diesel	
2	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	
2	Parking Lot	Asphalt Pla	Roller	Diesel	
2	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	
2	Parking Lot	Asphalt Pla	Surfacing E	Diesel	
2	Parking Lot	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	Parking Lot	Clearing an	Chipper/St	Diesel	

ACEIT Output - Default Asphalt Application Rates

2	Parking Lot	Clearing an	Pickup Truc	Diesel
2	Parking Lot	Curbing	Concrete T	Diesel
2	Parking Lot	Curbing	Curb/Gutte	Diesel
2	Parking Lot	Curbing	Other Gene	Diesel
2	Parking Lot	Curbing	Pickup Truc	Diesel
2	Parking Lot	Drainage -	Dozer	Diesel
2	Parking Lot	Drainage -	Dump Truc	Diesel
2	Parking Lot	Drainage -	Excavator	Diesel
2	Parking Lot	Drainage -	Loader	Diesel
2	Parking Lot	Drainage -	Other Gene	Diesel
2	Parking Lot	Drainage -	Pickup Truc	Diesel
2	Parking Lot	Drainage -	Roller	Diesel
2	Parking Lot	Drainage -	Dump Truc	Diesel
2	Parking Lot	Drainage -	Loader	Diesel
2	Parking Lot	Drainage -	Other Gene	Diesel
2	Parking Lot	Drainage -	Pickup Truc	Diesel
2	Parking Lot	Drainage -	Tractors/Lc	Diesel
2	Parking Lot	Excavation	Dozer	Diesel
2	Parking Lot	Excavation	Dump Truc	Diesel
2	Parking Lot	Excavation	Pickup Truc	Diesel
2	Parking Lot	Excavation	Roller	Diesel
2	Parking Lot	Excavation	Dozer	Diesel
2	Parking Lot	Excavation	Dump Truc	Diesel
2	Parking Lot	Excavation	Excavator	Diesel
2	Parking Lot	Excavation	Pickup Truc	Diesel
2	Parking Lot	Excavation	Roller	Diesel
2	Parking Lot	Excavation	Scraper	Diesel
2	Parking Lot	Excavation	Dozer	Diesel
2	Parking Lot	Fencing	Concrete T	Diesel
2	Parking Lot	Fencing	Dump Truc	Diesel
2	Parking Lot	Fencing	Other Gene	Diesel
2	Parking Lot	Fencing	Pickup Truc	Diesel
2	Parking Lot	Fencing	Skid Steer l	Diesel
2	Parking Lot	Fencing	Tractors/Lc	Diesel
2	Parking Lot	Grading	Dozer	Diesel
2	Parking Lot	Grading	Grader	Diesel
2	Parking Lot	Grading	Roller	Diesel
2	Parking Lot	Hydroseed	Hydroseed	Diesel
2	Parking Lot	Hydroseed	Off-Road T	Diesel
2	Parking Lot	Markings	Flatbed Tru	Diesel
2	Parking Lot	Markings	Other Gene	Diesel
2	Parking Lot	Markings	Pickup Truc	Diesel
2	Parking Lot	Sidewalks	Concrete T	Diesel
2	Parking Lot	Sidewalks	Dump Truc	Diesel
2	Parking Lot	Sidewalks	Pickup Truc	Diesel
2	Parking Lot	Sidewalks	Tractors/Lc	Diesel
2	Parking Lot	Sidewalks	Vibratory C	Diesel
2	Parking Lot	Soil Erosior	Other Gene	Diesel
2	Parking Lot	Soil Erosior	Pickup Truc	Diesel
2	Parking Lot	Soil Erosior	Pumps	Diesel
2	Parking Lot	Soil Erosior	Tractors/Lc	Diesel
2	Parking Lot	Street Light	Dump Truc	Diesel
2	Parking Lot	Street Light	Loader	Diesel
2	Parking Lot	Street Light	Other Gene	Diesel
2	Parking Lot	Street Light	Pickup Truc	Diesel
2	Parking Lot	Street Light	Skid Steer l	Diesel
2	Parking Lot	Street Light	Tractors/Lc	Diesel
2	Parking Lot	Subbase Pl	Dozer	Diesel
2	Parking Lot	Subbase Pl	Dump Truc	Diesel
2	Parking Lot	Subbase Pl	Pickup Truc	Diesel
2	Parking Lot	Subbase Pl	Roller	Diesel
2	Parking Lot	Topsoil Pla	Dozer	Diesel
2	Parking Lot	Topsoil Pla	Dump Truc	Diesel
2	Parking Lot	Topsoil Pla	Pickup Truc	Diesel
2	Parking Lot	Tree Planti	Flatbed Tru	Diesel
2	Parking Lot	Tree Planti	Other Gene	Diesel
2	Parking Lot	Tree Planti	Pickup Truc	Diesel
2	Parking Lot	Tree Planti	Tractors/Lc	Diesel
3	Building - 1	Concrete F	Backhoe	Diesel
3	Building - 1	Concrete F	Concrete P	Diesel
3	Building - 1	Concrete F	Concrete R	Diesel
3	Building - 1	Concrete F	Excavator	Diesel
3	Building - 1	Concrete F	Fork Truck	Diesel
3	Building - 1	Concrete F	Tool Truck	Diesel
3	Building - 1	Concrete F	Tractor Tra	Diesel
3	Building - 1	Constructic	Survey Cre	Diesel
3	Building - 1	Constructic	Tractor Tra	Diesel
3	Building - 1	Exterior W	Fork Truck	Diesel
3	Building - 1	Exterior W	Generator	Diesel
3	Building - 1	Exterior W	Grout Mixe	Diesel
3	Building - 1	Exterior W	Grout Whe	Diesel
3	Building - 1	Exterior W	Man Lift	Diesel
3	Building - 1	Exterior W	Tool Truck	Diesel
3	Building - 1	Exterior W	Tractor Tra	Diesel
3	Building - 1	Exterior W	Truck Towe	Diesel
3	Building - 1	Interior Bui	Fork Truck	Diesel
3	Building - 1	Interior Bui	Man Lift	Diesel
3	Building - 1	Interior Bui	Tool Truck	Diesel
3	Building - 1	Interior Bui	Tractor Tra	Diesel
3	Building - 1	Roofing	High Lift	Diesel
3	Building - 1	Roofing	Man Lift	Diesel
3	Building - 1	Roofing	Material De	Diesel
3	Building - 1	Roofing	Tractor Tra	Diesel
3	Building - 1	Roofing	Truck Towe	Diesel
3	Building - 1	Security &	High Lift	Diesel
3	Building - 1	Security &	Tool Truck	Diesel
3	Building - 1	Structural S	90 Ton Cra	Diesel
3	Building - 1	Structural S	Concrete P	Diesel
3	Building - 1	Structural S	Concrete T	Diesel
3	Building - 1	Structural S	Fork Truck	Diesel
3	Building - 1	Structural S	Tool Truck	Diesel
3	Building - 1	Structural S	Tractor Tra	Diesel
3	Building - 1	Structural S	Trowel Ma	Diesel
3	Building - 1	Structural S	Truck Towe	Diesel
3	Cargo Apro	Clearing an	Chain Saw	Diesel
3	Cargo Apro	Clearing an	Chipper/St	Diesel
3	Cargo Apro	Clearing an	Pickup Truc	Diesel
3	Cargo Apro	Concrete P	Air Compre	Diesel
3	Cargo Apro	Concrete P	Concrete S	Diesel
3	Cargo Apro	Concrete P	Concrete T	Diesel
3	Cargo Apro	Concrete P	Other Gene	Diesel
3	Cargo Apro	Concrete P	Pickup Truc	Diesel
3	Cargo Apro	Concrete P	Rubber Tire	Diesel
3	Cargo Apro	Concrete P	Slip Form P	Diesel
3	Cargo Apro	Concrete P	Surfacing E	Diesel
3	Cargo Apro	Drainage -	Dozer	Diesel
3	Cargo Apro	Drainage -	Dump Truc	Diesel
3	Cargo Apro	Drainage -	Excavator	Diesel
3	Cargo Apro	Drainage -	Loader	Diesel
3	Cargo Apro	Drainage -	Other Gene	Diesel
3	Cargo Apro	Drainage -	Pickup Truc	Diesel
3	Cargo Apro	Drainage -	Roller	Diesel
3	Cargo Apro	Drainage -	Dump Truc	Diesel
3	Cargo Apro	Drainage -	Loader	Diesel
3	Cargo Apro	Drainage -	Other Gene	Diesel
3	Cargo Apro	Drainage -	Pickup Truc	Diesel
3	Cargo Apro	Drainage -	Tractors/Lc	Diesel
3	Cargo Apro	Dust Contr	Water Truc	Diesel
3	Cargo Apro	Excavation	Dozer	Diesel
3	Cargo Apro	Excavation	Dump Truc	Diesel
3	Cargo Apro	Excavation	Pickup Truc	Diesel
3	Cargo Apro	Excavation	Roller	Diesel
3	Cargo Apro	Excavation	Dozer	Diesel
3	Cargo Apro	Excavation	Dump Truc	Diesel
3	Cargo Apro	Excavation	Excavator	Diesel
3	Cargo Apro	Excavation	Pickup Truc	Diesel
3	Cargo Apro	Excavation	Roller	Diesel
3	Cargo Apro	Excavation	Scraper	Diesel
3	Cargo Apro	Excavation	Dozer	Diesel
3	Cargo Apro	Fencing	Concrete T	Diesel
3	Cargo Apro	Fencing	Dump Truc	Diesel
3	Cargo Apro	Fencing	Other Gene	Diesel
3	Cargo Apro	Fencing	Pickup Truc	Diesel
3	Cargo Apro	Fencing	Skid Steer l	Diesel
3	Cargo Apro	Fencing	Tractors/Lc	Diesel
3	Cargo Apro	Grading	Dozer	Diesel
3	Cargo Apro	Grading	Grader	Diesel
3	Cargo Apro	Grading	Roller	Diesel
3	Cargo Apro	Hydroseed	Hydroseed	Diesel
3	Cargo Apro	Hydroseed	Off-Road T	Diesel
3	Cargo Apro	Lighting	Dump Truc	Diesel
3	Cargo Apro	Lighting	Loader	Diesel
3	Cargo Apro	Lighting	Other Gene	Diesel

*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***

ACEIT Output - Default Asphalt Application Rates

3	Cargo Apro	Lighting	Pickup Truc	Diesel	
3	Cargo Apro	Lighting	Skid Steer l	Diesel	
3	Cargo Apro	Lighting	Tractors/Lc	Diesel	
3	Cargo Apro	Markings	Flatbed Tru	Diesel	
3	Cargo Apro	Markings	Other Gene	Diesel	
3	Cargo Apro	Markings	Pickup Truc	Diesel	
3	Cargo Apro	Sealing/Fue	Distributing	Diesel	
3	Cargo Apro	Sealing/Fue	Other Gene	Diesel	
3	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	
3	Cargo Apro	Soil Erosior	Other Gene	Diesel	
3	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	
3	Cargo Apro	Soil Erosior	Pumps	Diesel	
3	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	
3	Cargo Apro	Subbase Pl	Dozer	Diesel	
3	Cargo Apro	Subbase Pl	Dump Truc	Diesel	
3	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	
3	Cargo Apro	Subbase Pl	Roller	Diesel	
3	Cargo Apro	Topsoil Pla	Dozer	Diesel	
3	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	
3	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	
3	Drainage S	Drainage -	Dozer	Diesel	
3	Drainage S	Drainage -	Dump Truc	Diesel	
3	Drainage S	Drainage -	Excavator	Diesel	
3	Drainage S	Drainage -	Loader	Diesel	
3	Drainage S	Drainage -	Other Gene	Diesel	
3	Drainage S	Drainage -	Pickup Truc	Diesel	
3	Drainage S	Drainage -	Roller	Diesel	
3	Drainage S	Drainage -	Dozer	Diesel	
3	Drainage S	Drainage -	Dump Truc	Diesel	
3	Drainage S	Drainage -	Excavator	Diesel	
3	Drainage S	Drainage -	Loader	Diesel	
3	Drainage S	Drainage -	Other Gene	Diesel	
3	Drainage S	Drainage -	Pickup Truc	Diesel	
3	Drainage S	Drainage -	Roller	Diesel	
3	Drainage S	Drainage St	Dump Truc	Diesel	
3	Drainage S	Drainage St	Excavator	Diesel	
3	Drainage S	Drainage St	Other Gene	Diesel	
3	Drainage S	Drainage St	Pickup Truc	Diesel	
3	Drainage S	Hydroseed	Hydroseed	Diesel	
3	Drainage S	Hydroseed	Off-Road T	Diesel	
3	Drainage S	Soil Erosior	Other Gene	Diesel	
3	Drainage S	Soil Erosior	Pickup Truc	Diesel	
3	Drainage S	Soil Erosior	Pumps	Diesel	
3	Drainage S	Soil Erosior	Tractors/Lc	Diesel	
3	Drainage S	Topsoil Pla	Dozer	Diesel	
3	Drainage S	Topsoil Pla	Dump Truc	Diesel	
3	Drainage S	Topsoil Pla	Pickup Truc	Diesel	
3	Fuel Tanks	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Fuel Tanks	Clearing an	Chipper/St	Diesel	
3	Fuel Tanks	Clearing an	Pickup Truc	Diesel	
3	Fuel Tanks	Concrete P	Air Compre	Diesel	
3	Fuel Tanks	Concrete P	Concrete S	Diesel	
3	Fuel Tanks	Concrete P	Concrete T	Diesel	
3	Fuel Tanks	Concrete P	Other Gene	Diesel	
3	Fuel Tanks	Concrete P	Pickup Truc	Diesel	
3	Fuel Tanks	Concrete P	Rubber Tire	Diesel	
3	Fuel Tanks	Concrete P	Slip Form P	Diesel	
3	Fuel Tanks	Concrete P	Surfacing E	Diesel	
3	Fuel Tanks	Constructic	Crane	Diesel	
3	Fuel Tanks	Constructic	Other Gene	Diesel	
3	Fuel Tanks	Constructic	Pickup Truc	Diesel	
3	Fuel Tanks	Drainage -	Excavator	Diesel	
3	Fuel Tanks	Drainage	Dozer	Diesel	
3	Fuel Tanks	Drainage	Dump Truc	Diesel	
3	Fuel Tanks	Drainage	Loader	Diesel	
3	Fuel Tanks	Drainage	Other Gene	Diesel	
3	Fuel Tanks	Drainage	Pickup Truc	Diesel	
3	Fuel Tanks	Drainage	Roller	Diesel	
3	Fuel Tanks	Dust Contr	Water Truc	Diesel	
3	Fuel Tanks	Excavation	Dozer	Diesel	
3	Fuel Tanks	Excavation	Dump Truc	Diesel	
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	
3	Fuel Tanks	Excavation	Roller	Diesel	
3	Fuel Tanks	Excavation	Dozer	Diesel	
3	Fuel Tanks	Excavation	Dump Truc	Diesel	
3	Fuel Tanks	Excavation	Excavator	Diesel	
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	
3	Fuel Tanks	Excavation	Roller	Diesel	
3	Fuel Tanks	Excavation	Scraper	Diesel	
3	Fuel Tanks	Excavation	Dozer	Diesel	
3	Fuel Tanks	Fencing	Concrete T	Diesel	
3	Fuel Tanks	Fencing	Dump Truc	Diesel	
3	Fuel Tanks	Fencing	Other Gene	Diesel	
3	Fuel Tanks	Fencing	Pickup Truc	Diesel	
3	Fuel Tanks	Fencing	Skid Steer l	Diesel	
3	Fuel Tanks	Fencing	Tractors/Lc	Diesel	
3	Fuel Tanks	Grading	Dozer	Diesel	
3	Fuel Tanks	Grading	Grader	Diesel	
3	Fuel Tanks	Grading	Roller	Diesel	
3	Fuel Tanks	Hydroseed	Hydroseed	Diesel	
3	Fuel Tanks	Hydroseed	Off-Road T	Diesel	
3	Fuel Tanks	Markings	Flatbed Tru	Diesel	
3	Fuel Tanks	Markings	Other Gene	Diesel	
3	Fuel Tanks	Markings	Pickup Truc	Diesel	
3	Fuel Tanks	Soil Erosior	Other Gene	Diesel	
3	Fuel Tanks	Soil Erosior	Pickup Truc	Diesel	
3	Fuel Tanks	Soil Erosior	Pumps	Diesel	
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel	
3	Fuel Tanks	Street Light	Dump Truc	Diesel	
3	Fuel Tanks	Street Light	Loader	Diesel	
3	Fuel Tanks	Street Light	Other Gene	Diesel	
3	Fuel Tanks	Street Light	Pickup Truc	Diesel	
3	Fuel Tanks	Street Light	Skid Steer l	Diesel	
3	Fuel Tanks	Street Light	Tractors/Lc	Diesel	
3	Fuel Tanks	Subbase Pl	Dozer	Diesel	
3	Fuel Tanks	Subbase Pl	Dump Truc	Diesel	
3	Fuel Tanks	Subbase Pl	Pickup Truc	Diesel	
3	Fuel Tanks	Subbase Pl	Roller	Diesel	
3	Fuel Tanks	Topsoil Pla	Dozer	Diesel	
3	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel	
3	Fuel Tanks	Topsoil Pla	Pickup Truc	Diesel	
3	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	
3	Parking Lot	Asphalt Pla	Dump Truc	Diesel	
3	Parking Lot	Asphalt Pla	Other Gene	Diesel	
3	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	
3	Parking Lot	Asphalt Pla	Roller	Diesel	
3	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	
3	Parking Lot	Asphalt Pla	Surfacing E	Diesel	
3	Parking Lot	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Parking Lot	Clearing an	Chipper/St	Diesel	
3	Parking Lot	Clearing an	Pickup Truc	Diesel	
3	Parking Lot	Curbing	Concrete T	Diesel	
3	Parking Lot	Curbing	Curb/Gutte	Diesel	
3	Parking Lot	Curbing	Other Gene	Diesel	
3	Parking Lot	Curbing	Pickup Truc	Diesel	
3	Parking Lot	Drainage -	Dozer	Diesel	
3	Parking Lot	Drainage -	Dump Truc	Diesel	
3	Parking Lot	Drainage -	Excavator	Diesel	
3	Parking Lot	Drainage -	Loader	Diesel	
3	Parking Lot	Drainage -	Other Gene	Diesel	
3	Parking Lot	Drainage -	Pickup Truc	Diesel	
3	Parking Lot	Drainage -	Roller	Diesel	
3	Parking Lot	Drainage -	Dump Truc	Diesel	
3	Parking Lot	Drainage -	Loader	Diesel	
3	Parking Lot	Drainage -	Other Gene	Diesel	
3	Parking Lot	Drainage -	Pickup Truc	Diesel	
3	Parking Lot	Drainage -	Tractors/Lc	Diesel	
3	Parking Lot	Excavation	Dozer	Diesel	
3	Parking Lot	Excavation	Dump Truc	Diesel	
3	Parking Lot	Excavation	Pickup Truc	Diesel	
3	Parking Lot	Excavation	Roller	Diesel	
3	Parking Lot	Excavation	Dozer	Diesel	
3	Parking Lot	Excavation	Dump Truc	Diesel	
3	Parking Lot	Excavation	Excavator	Diesel	
3	Parking Lot	Excavation	Pickup Truc	Diesel	
3	Parking Lot	Excavation	Roller	Diesel	
3	Parking Lot	Excavation	Scraper	Diesel	
3	Parking Lot	Excavation	Dozer	Diesel	
3	Parking Lot	Fencing	Concrete T	Diesel	
3	Parking Lot	Fencing	Dump Truc	Diesel	
3	Parking Lot	Fencing	Other Gene	Diesel	
3	Parking Lot	Fencing	Pickup Truc	Diesel	
3	Parking Lot	Fencing	Skid Steer l	Diesel	

ACEIT Output - Default Asphalt Application Rates

3	Parking Lot	Fencing	Tractors/Lc	Diesel	
3	Parking Lot	Grading	Dozer	Diesel	
3	Parking Lot	Grading	Grader	Diesel	
3	Parking Lot	Grading	Roller	Diesel	
3	Parking Lot	Hydroseed	Hydroseed	Diesel	
3	Parking Lot	Hydroseed	Off-Road T	Diesel	
3	Parking Lot	Markings	Flatbed Tru	Diesel	
3	Parking Lot	Markings	Other Gen	Diesel	
3	Parking Lot	Markings	Pickup Truc	Diesel	
3	Parking Lot	Sidewalks	Concrete T	Diesel	
3	Parking Lot	Sidewalks	Dump Truc	Diesel	
3	Parking Lot	Sidewalks	Pickup Truc	Diesel	
3	Parking Lot	Sidewalks	Tractors/Lc	Diesel	
3	Parking Lot	Sidewalks	Vibratory C	Diesel	
3	Parking Lot	Soil Erosior	Other Gen	Diesel	
3	Parking Lot	Soil Erosior	Pickup Truc	Diesel	
3	Parking Lot	Soil Erosior	Pumps	Diesel	
3	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	
3	Parking Lot	Street Light	Dump Truc	Diesel	
3	Parking Lot	Street Light	Loader	Diesel	
3	Parking Lot	Street Light	Other Gen	Diesel	
3	Parking Lot	Street Light	Pickup Truc	Diesel	
3	Parking Lot	Street Light	Skid Steer l	Diesel	
3	Parking Lot	Street Light	Tractors/Lc	Diesel	
3	Parking Lot	Subbase Pl	Dozer	Diesel	
3	Parking Lot	Subbase Pl	Dump Truc	Diesel	
3	Parking Lot	Subbase Pl	Pickup Truc	Diesel	
3	Parking Lot	Subbase Pl	Roller	Diesel	
3	Parking Lot	Topsoil Pla	Dozer	Diesel	
3	Parking Lot	Topsoil Pla	Dump Truc	Diesel	
3	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	
3	Parking Lot	Tree Planti	Flatbed Tru	Diesel	
3	Parking Lot	Tree Planti	Other Gen	Diesel	
3	Parking Lot	Tree Planti	Pickup Truc	Diesel	
3	Parking Lot	Tree Planti	Tractors/Lc	Diesel	
3	Taxiways	Asphalt Pla	Asphalt Pa	Diesel	
3	Taxiways	Asphalt Pla	Dump Truc	Diesel	
3	Taxiways	Asphalt Pla	Other Gen	Diesel	
3	Taxiways	Asphalt Pla	Pickup Truc	Diesel	
3	Taxiways	Asphalt Pla	Roller	Diesel	
3	Taxiways	Asphalt Pla	Skid Steer l	Diesel	
3	Taxiways	Asphalt Pla	Surfacing E	Diesel	
3	Taxiways	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Taxiways	Clearing an	Chipper/St	Diesel	
3	Taxiways	Clearing an	Pickup Truc	Diesel	
3	Taxiways	Drainage -	Dozer	Diesel	
3	Taxiways	Drainage -	Dump Truc	Diesel	
3	Taxiways	Drainage -	Excavator	Diesel	
3	Taxiways	Drainage -	Loader	Diesel	
3	Taxiways	Drainage -	Other Gen	Diesel	
3	Taxiways	Drainage -	Pickup Truc	Diesel	
3	Taxiways	Drainage -	Tractors/Lc	Diesel	
3	Taxiways	Dust Contr	Water Truc	Diesel	
3	Taxiways	Excavation	Dozer	Diesel	
3	Taxiways	Excavation	Dump Truc	Diesel	
3	Taxiways	Excavation	Pickup Truc	Diesel	
3	Taxiways	Excavation	Roller	Diesel	
3	Taxiways	Excavation	Dozer	Diesel	
3	Taxiways	Excavation	Dump Truc	Diesel	
3	Taxiways	Excavation	Excavator	Diesel	
3	Taxiways	Excavation	Pickup Truc	Diesel	
3	Taxiways	Excavation	Roller	Diesel	
3	Taxiways	Excavation	Scraper	Diesel	
3	Taxiways	Excavation	Dozer	Diesel	
3	Taxiways	Fencing	Concrete T	Diesel	
3	Taxiways	Fencing	Dump Truc	Diesel	
3	Taxiways	Fencing	Other Gen	Diesel	
3	Taxiways	Fencing	Pickup Truc	Diesel	
3	Taxiways	Fencing	Skid Steer l	Diesel	
3	Taxiways	Fencing	Tractors/Lc	Diesel	
3	Taxiways	Grading	Dozer	Diesel	
3	Taxiways	Grading	Grader	Diesel	
3	Taxiways	Grading	Roller	Diesel	
3	Taxiways	Hydroseed	Hydroseed	Diesel	
3	Taxiways	Hydroseed	Off-Road T	Diesel	
3	Taxiways	Lighting	Dump Truc	Diesel	
3	Taxiways	Lighting	Loader	Diesel	
3	Taxiways	Lighting	Other Gen	Diesel	
3	Taxiways	Lighting	Pickup Truc	Diesel	
3	Taxiways	Lighting	Skid Steer l	Diesel	
3	Taxiways	Lighting	Tractors/Lc	Diesel	
3	Taxiways	Markings	Flatbed Tru	Diesel	
3	Taxiways	Markings	Other Gen	Diesel	
3	Taxiways	Markings	Pickup Truc	Diesel	
3	Taxiways	Soil Erosior	Other Gen	Diesel	
3	Taxiways	Soil Erosior	Pickup Truc	Diesel	
3	Taxiways	Soil Erosior	Pumps	Diesel	
3	Taxiways	Soil Erosior	Tractors/Lc	Diesel	
3	Taxiways	Subbase Pl	Dozer	Diesel	
3	Taxiways	Subbase Pl	Dump Truc	Diesel	
3	Taxiways	Subbase Pl	Pickup Truc	Diesel	
3	Taxiways	Subbase Pl	Roller	Diesel	
3	Taxiways	Topsoil Pla	Dozer	Diesel	
3	Taxiways	Topsoil Pla	Dump Truc	Diesel	
3	Taxiways	Topsoil Pla	Pickup Truc	Diesel	

Overall Size

Scenario ID	Project	Project Size	User Input	Unit
1	Cargo Apro	What is the	2.67	$ Million(s)
1	Cargo Apro	What is the	428	Feet
1	Cargo Apro	What is the	250	Feet
1	Parking Lot	What is the	0.4	$ Million(s)
1	Parking Lot	What is the	970	Feet
1	Parking Lot	What is the	150	Feet
1	Rehabilitat	What is the	1.5	$ Million(s)
1	Rehabilitat	What is the	3675	Feet
1	Rehabilitat	What is the	250	Feet
2	Building - 1	What is the	12.5	$ Million(s)
2	Cargo Apro	What is the	4	$ Million(s)
2	Cargo Apro	What is the	642	Feet
2	Cargo Apro	What is the	250	Feet
2	Parking Lot	What is the	0.6	$ Million(s)
2	Parking Lot	What is the	1455	Feet
2	Parking Lot	What is the	150	Feet
3	Building - 1	What is the	12.5	$ Million(s)
3	Cargo Apro	What is the	5.33	$ Million(s)
3	Cargo Apro	What is the	855	Feet
3	Cargo Apro	What is the	250	Feet
3	Drainage S	What is the	1.5	$ Million(s)
3	Drainage S	What is the	6	Feet
3	Drainage S	What is the	600	Feet
3	Drainage S	What is the	20	Feet
3	Fuel Tanks	What is the	2	$ Million(s)
3	Fuel Tanks	What is the	4	Feet
3	Fuel Tanks	What is the	415	Feet
3	Fuel Tanks	What is the	100	Feet
3	Fuel Tanks	What is the	5	---
3	Parking Lot	What is the	1	$ Million(s)
3	Parking Lot	What is the	2425	Feet
3	Parking Lot	What is the	150	Feet
3	Taxiways	What is the	2	$ Million(s)
3	Taxiways	What is the	1205	Feet
3	Taxiways	What is the	100	Feet

Size Detail (Estimated based on engineering experience)

ScenarioID	Project	Constructic	Default Act	Unit	User Activity Size
1	Cargo Apro	Clearing an	2.6	Acres	
1	Cargo Apro	Concrete P	4948.8	Cubic Yards	
1	Cargo Apro	Drainage -	438	Linear Feet	
1	Cargo Apro	Drainage -	876	Linear Feet	
1	Cargo Apro	Dust Contr	60	Days	
1	Cargo Apro	Excavation	4948.8	Cubic Yards	
1	Cargo Apro	Excavation	4948.8	Cubic Yards	
1	Cargo Apro	Excavation	11877	Square Yards	

ACEIT Output - Default Asphalt Application Rates

1	Cargo Apro	Fencing	428	Linear Feet
1	Cargo Apro	Grading	12640.7	Square Yards
1	Cargo Apro	Hydroseedi	113880	Square Feet
1	Cargo Apro	Lighting	1356	Linear Feet
1	Cargo Apro	Markings	107000	Square Feet
1	Cargo Apro	Sealing/Fue	11877	Square Yards
1	Cargo Apro	Soil Erosior	2.6	Acres
1	Cargo Apro	Subbase Pla	11877	Square Yards
1	Cargo Apro	Subbase Pla	3959	Cubic Yards
1	Cargo Apro	Topsoil Plac	2106.8	Cubic Yards
1	Parking Lot	Asphalt Pla	16150.5	Square Yards
1	Parking Lot	Clearing an	3.6	Acres
1	Parking Lot	Curbing	970	Linear Feet
1	Parking Lot	Drainage -	980	Linear Feet
1	Parking Lot	Drainage -	5880	Linear Feet
1	Parking Lot	Excavation	6729.4	Cubic Yards
1	Parking Lot	Excavation	6729.4	Cubic Yards
1	Parking Lot	Excavation	16150.5	Square Yards
1	Parking Lot	Fencing	970	Linear Feet
1	Parking Lot	Grading	17404.8	Square Yards
1	Parking Lot	Hydroseedi	156800	Square Feet
1	Parking Lot	Markings	2240	Square Feet
1	Parking Lot	Sidewalks	2910	Square Feet
1	Parking Lot	Soil Erosior	3.6	Acres
1	Parking Lot	Street Light	3.6	Lights
1	Parking Lot	Subbase Pla	16150.5	Square Yards
1	Parking Lot	Subbase Pla	5383.5	Cubic Yards
1	Parking Lot	Topsoil Plac	2900.8	Cubic Yards
1	Parking Lot	Tree Plantii	0	Trees
1	Rehabilitat	Asphalt Pla	101981.3	Square Yards
1	Rehabilitat	Cold Millin	101981.3	Square Yards
1	Rehabilitat	Dust Contr	60	Days
1	Rehabilitat	Excavation	8498.4	Cubic Yards
1	Rehabilitat	Excavation	20396.3	Square Yards
1	Rehabilitat	Grading	21269.8	Square Yards
1	Rehabilitat	Hydroseedi	21269.8	Square Feet
1	Rehabilitat	Lighting	7850	Linear Feet
1	Rehabilitat	Markings	918750	Square Feet
1	Rehabilitat	Sealing Rar	3675	Linear Feet
1	Rehabilitat	Soil Erosior	4.4	Acres
1	Rehabilitat	Subbase Pla	101981.3	Square Yards
1	Rehabilitat	Subbase Pla	33993.8	Cubic Yards
1	Rehabilitat	Topsoil Plac	3545	Cubic Yards
2	Cargo Apro	Clearing an	3.9	Acres
2	Cargo Apro	Concrete P	7423.1	Cubic Yards
2	Cargo Apro	Drainage -	652	Linear Feet
2	Cargo Apro	Drainage -	1304	Linear Feet
2	Cargo Apro	Dust Contr	90	Days
2	Cargo Apro	Excavation	7423.1	Cubic Yards
2	Cargo Apro	Excavation	17815.5	Square Yards
2	Cargo Apro	Fencing	642	Linear Feet
2	Cargo Apro	Grading	18816.7	Square Yards
2	Cargo Apro	Hydroseedi	169520	Square Feet
2	Cargo Apro	Lighting	1784	Linear Feet
2	Cargo Apro	Markings	160500	Square Feet
2	Cargo Apro	Sealing/Fue	17815.5	Square Yards
2	Cargo Apro	Soil Erosior	3.9	Acres
2	Cargo Apro	Subbase Pla	17815.5	Square Yards
2	Cargo Apro	Subbase Pla	5938.5	Cubic Yards
2	Cargo Apro	Topsoil Plac	3136.1	Cubic Yards
2	Parking Lot	Asphalt Pla	24225.8	Square Yards
2	Parking Lot	Clearing an	5.4	Acres
2	Parking Lot	Curbing	1455	Linear Feet
2	Parking Lot	Drainage -	1465	Linear Feet
2	Parking Lot	Drainage -	8790	Linear Feet
2	Parking Lot	Excavation	10094.1	Cubic Yards
2	Parking Lot	Excavation	10094.1	Cubic Yards
2	Parking Lot	Excavation	24225.8	Square Yards
2	Parking Lot	Fencing	1455	Linear Feet
2	Parking Lot	Grading	26018.4	Square Yards
2	Parking Lot	Hydroseedi	234400	Square Feet
2	Parking Lot	Markings	3210	Square Feet
2	Parking Lot	Sidewalks	4365	Square Feet
2	Parking Lot	Soil Erosior	5.4	Acres
2	Parking Lot	Street Light	5.5	Lights
2	Parking Lot	Subbase Pla	24225.8	Square Yards
2	Parking Lot	Subbase Pla	8075.3	Cubic Yards
2	Parking Lot	Topsoil Plac	4336.4	Cubic Yards
2	Parking Lot	Tree Plantii	0	Trees
3	Cargo Apro	Clearing an	5.2	Acres
3	Cargo Apro	Concrete P	9885.9	Cubic Yards
3	Cargo Apro	Drainage -	865	Linear Feet
3	Cargo Apro	Drainage -	1730	Linear Feet
3	Cargo Apro	Dust Contr	180	Days
3	Cargo Apro	Excavation	9885.9	Cubic Yards
3	Cargo Apro	Excavation	9885.9	Cubic Yards
3	Cargo Apro	Excavation	23726.3	Square Yards
3	Cargo Apro	Fencing	855	Linear Feet
3	Cargo Apro	Grading	24963.9	Square Yards
3	Cargo Apro	Hydroseedi	224900	Square Feet
3	Cargo Apro	Lighting	2210	Linear Feet
3	Cargo Apro	Markings	213750	Square Feet
3	Cargo Apro	Sealing/Fue	23726.3	Square Yards
3	Cargo Apro	Soil Erosior	5.2	Acres
3	Cargo Apro	Subbase Pla	23726.3	Square Yards
3	Cargo Apro	Subbase Pla	7908.8	Cubic Yards
3	Cargo Apro	Topsoil Plac	4160.7	Cubic Yards
3	Drainage S	Drainage -	600	Linear Feet
3	Drainage S	Drainage -	600	Linear Feet
3	Drainage S	Drainage St	1.2	Units
3	Drainage S	Hydroseedi	12200	Square Feet
3	Drainage S	Soil Erosior	0.3	Acres
3	Drainage S	Topsoil Plac	225.7	Cubic Yards
3	Fuel Tanks	Clearing an	1.1	Acres
3	Fuel Tanks	Concrete P	1919.4	Cubic Yards
3	Fuel Tanks	Constructic	5	Tank
3	Fuel Tanks	Drainage -	425	Linear Feet
3	Fuel Tanks	Drainage	425	Linear Feet
3	Fuel Tanks	Dust Contr	180	Days
3	Fuel Tanks	Excavation	6142	Cubic Yards
3	Fuel Tanks	Excavation	6142	Cubic Yards
3	Fuel Tanks	Excavation	4606.5	Square Yards
3	Fuel Tanks	Fencing	415	Linear Feet
3	Fuel Tanks	Grading	5189.3	Square Yards
3	Fuel Tanks	Hydroseedi	46750	Square Feet
3	Fuel Tanks	Markings	41500	Square Feet
3	Fuel Tanks	Soil Erosior	1.1	Acres
3	Fuel Tanks	Street Light	1	Lights
3	Fuel Tanks	Subbase Pla	4606.5	Square Yards
3	Fuel Tanks	Subbase Pla	1535.5	Cubic Yards
3	Fuel Tanks	Topsoil Plac	1729.8	Cubic Yards
3	Parking Lot	Asphalt Pla	40376.3	Square Yards
3	Parking Lot	Clearing an	9	Acres
3	Parking Lot	Curbing	2425	Linear Feet
3	Parking Lot	Drainage -	2435	Linear Feet
3	Parking Lot	Drainage -	14610	Linear Feet
3	Parking Lot	Excavation	16823.4	Cubic Yards
3	Parking Lot	Excavation	16823.4	Cubic Yards
3	Parking Lot	Excavation	40376.3	Square Yards
3	Parking Lot	Fencing	2425	Linear Feet
3	Parking Lot	Grading	43245.6	Square Yards
3	Parking Lot	Hydroseedi	389600	Square Feet
3	Parking Lot	Markings	5150	Square Feet
3	Parking Lot	Sidewalks	7275	Square Feet
3	Parking Lot	Soil Erosior	9	Acres
3	Parking Lot	Street Light	9.1	Lights
3	Parking Lot	Subbase Pla	40376.3	Square Yards
3	Parking Lot	Subbase Pla	13458.8	Cubic Yards
3	Parking Lot	Topsoil Plac	7207.6	Cubic Yards
3	Parking Lot	Tree Plantii	5	Trees
3	Taxiways	Asphalt Pla	13375.5	Square Yards
3	Taxiways	Clearing an	3.1	Acres
3	Taxiways	Drainage -	1215	Linear Feet
3	Taxiways	Drainage -	2430	Linear Feet
3	Taxiways	Dust Contr	180	Days
3	Taxiways	Excavation	5573.1	Cubic Yards
3	Taxiways	Excavation	5573.1	Cubic Yards
3	Taxiways	Excavation	13375.5	Square Yards
3	Taxiways	Fencing	1205	Linear Feet
3	Taxiways	Grading	14835.2	Square Yards
3	Taxiways	Hydroseedi	133650	Square Feet
3	Taxiways	Lighting	2610	Linear Feet

ACEIT Output - Default Asphalt Application Rates

3	Taxiways	Markings	120500	Square Feet
3	Taxiways	Soil Erosior	3.1	Acres
3	Taxiways	Subbase Pl	13375.5	Square Yards
3	Taxiways	Subbase Pl	4458.5	Cubic Yards
3	Taxiways	Topsoil Pla	2472.5	Cubic Yards

Activity: Non-Road (Estimated based on engineering experience)

Scenario ID	Project	Constructic	Equipment	Fuel Type	Activity Siz	Activity Ra	Default Act	Activity Un	User Activity Data
1	Cargo Apro	Clearing an	Chain Saw	Diesel	2.60 Acre	12 Hours p	31.2	hours	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Cargo Apro	Clearing an	Chipper/St	Diesel	2.60 Acre	12 Hours p	31.2	hours	
1	Cargo Apro	Clearing an	Pickup Truc	Diesel	2.60 Acre	16 Hours p	41.6	hours	
1	Cargo Apro	Concrete P	Air Compre	Diesel	4948.80 CY	8 Hours pe	39.59	hours	
1	Cargo Apro	Concrete P	Concrete S	Diesel	4948.80 CY	8 Hours pe	39.59	hours	
1	Cargo Apro	Concrete P	Concrete T	Diesel	4948.80 CY	8 Hours pe	164.96	hours	
1	Cargo Apro	Concrete P	Other Gene	Diesel	4948.80 CY	16 Hours p	79.18	hours	
1	Cargo Apro	Concrete P	Pickup Truc	Diesel	4948.80 CY	24 Hours p	118.77	hours	
1	Cargo Apro	Concrete P	Rubber Tire	Diesel	4948.80 CY	8 Hours pe	39.59	hours	
1	Cargo Apro	Concrete P	Slip Form P	Diesel	4948.80 CY	8 Hours pe	39.59	hours	
1	Cargo Apro	Concrete P	Surfacing E	Diesel	4948.80 CY	8 Hours pe	39.59	hours	
1	Cargo Apro	Drainage -	Dozer	Diesel	438.00 LF	8 Hours pe	14.02	hours	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	438.00 LF	8 Hours pe	14.02	hours	
1	Cargo Apro	Drainage -	Excavator	Diesel	438.00 LF	8 Hours pe	14.02	hours	
1	Cargo Apro	Drainage -	Loader	Diesel	438.00 LF	8 Hours pe	14.02	hours	
1	Cargo Apro	Drainage -	Other Gene	Diesel	438.00 LF	8 Hours pe	14.02	hours	
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	438.00 LF	8 Hours pe	14.02	hours	
1	Cargo Apro	Drainage -	Roller	Diesel	438.00 LF	8 Hours pe	14.02	hours	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	876.00 LF	8 Hours pe	7.79	hours	
1	Cargo Apro	Drainage -	Loader	Diesel	876.00 LF	8 Hours pe	7.79	hours	
1	Cargo Apro	Drainage -	Other Gene	Diesel	876.00 LF	8 Hours pe	7.79	hours	
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	876.00 LF	8 Hours pe	7.79	hours	
1	Cargo Apro	Drainage -	Tractors/Lc	Diesel	876.00 LF	8 Hours pe	7.79	hours	
1	Cargo Apro	Dust Contr	Water Truc	Diesel	60.00 Day	8 Hours pe	480	hours	
1	Cargo Apro	Excavation	Dozer	Diesel	4948.80 CY	8 Hours pe	65.98	hours	
1	Cargo Apro	Excavation	Dump Truc	Diesel	4948.80 CY	8 Hours pe	65.98	hours	
1	Cargo Apro	Excavation	Pickup Truc	Diesel	4948.80 CY	8 Hours pe	65.98	hours	
1	Cargo Apro	Excavation	Roller	Diesel	4948.80 CY	8 Hours pe	30.45	hours	
1	Cargo Apro	Excavation	Dozer	Diesel	4948.80 CY	8 Hours pe	49.49	hours	
1	Cargo Apro	Excavation	Dump Truc	Diesel	4948.80 CY	8 Hours pe	131.97	hours	
1	Cargo Apro	Excavation	Excavator	Diesel	4948.80 CY	8 Hours pe	39.59	hours	
1	Cargo Apro	Excavation	Pickup Truc	Diesel	4948.80 CY	8 Hours pe	39.59	hours	
1	Cargo Apro	Excavation	Roller	Diesel	4948.80 CY	8 Hours pe	39.59	hours	
1	Cargo Apro	Excavation	Scraper	Diesel	4948.80 CY	8 Hours pe	49.49	hours	
1	Cargo Apro	Excavation	Dozer	Diesel	11877.00 S	8 Hours pe	18.63	hours	
1	Cargo Apro	Fencing	Concrete T	Diesel	428.00 LF	2 Hours pe	4.76	hours	
1	Cargo Apro	Fencing	Dump Truc	Diesel	428.00 LF	8 Hours pe	19.02	hours	
1	Cargo Apro	Fencing	Other Gene	Diesel	428.00 LF	8 Hours pe	19.02	hours	
1	Cargo Apro	Fencing	Pickup Truc	Diesel	428.00 LF	8 Hours pe	19.02	hours	
1	Cargo Apro	Fencing	Skid Steer l	Diesel	428.00 LF	8 Hours pe	19.02	hours	
1	Cargo Apro	Fencing	Tractors/Lc	Diesel	428.00 LF	8 Hours pe	19.02	hours	
1	Cargo Apro	Grading	Dozer	Diesel	12640.70 S	8 Hours pe	12.64	hours	
1	Cargo Apro	Grading	Grader	Diesel	12640.70 S	8 Hours pe	12.64	hours	
1	Cargo Apro	Grading	Roller	Diesel	12640.70 S	8 Hours pe	12.64	hours	
1	Cargo Apro	Hydroseed	Hydroseed	Diesel	113880.00	8 Hours pe	11.39	hours	
1	Cargo Apro	Hydroseed	Off-Road T	Diesel	113880.00	8 Hours pe	11.39	hours	
1	Cargo Apro	Lighting	Dump Truc	Diesel	1356.00 LF	8 Hours pe	9.04	hours	
1	Cargo Apro	Lighting	Loader	Diesel	1356.00 LF	8 Hours pe	9.04	hours	
1	Cargo Apro	Lighting	Other Gene	Diesel	1356.00 LF	8 Hours pe	9.04	hours	
1	Cargo Apro	Lighting	Pickup Truc	Diesel	1356.00 LF	8 Hours pe	9.04	hours	
1	Cargo Apro	Lighting	Skid Steer l	Diesel	1356.00 LF	8 Hours pe	9.04	hours	
1	Cargo Apro	Lighting	Tractors/Lc	Diesel	1356.00 LF	8 Hours pe	9.04	hours	
1	Cargo Apro	Markings	Flatbed Tru	Diesel	107000.00	8 Hours pe	244.57	hours	
1	Cargo Apro	Markings	Other Gene	Diesel	107000.00	8 Hours pe	244.57	hours	
1	Cargo Apro	Markings	Pickup Truc	Diesel	107000.00	8 Hours pe	244.57	hours	
1	Cargo Apro	Sealing/Fue	Distributing	Diesel	11877.00 S	8 Hours pe	31.67	hours	
1	Cargo Apro	Sealing/Fue	Other Gene	Diesel	11877.00 S	8 Hours pe	31.67	hours	
1	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	11877.00 S	8 Hours pe	31.67	hours	
1	Cargo Apro	Soil Erosior	Other Gene	Diesel	2.60 Acre	4 Hours pe	10.4	hours	
1	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	2.60 Acre	8 Hours pe	20.8	hours	
1	Cargo Apro	Soil Erosior	Pumps	Diesel	2.60 Acre	4 Hours pe	10.4	hours	
1	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	2.60 Acre	4 Hours pe	10.4	hours	
1	Cargo Apro	Subbase Pl	Dozer	Diesel	11877.00 S	8 Hours pe	25	hours	
1	Cargo Apro	Subbase Pl	Dump Truc	Diesel	3959.00 CY	8 Hours pe	175.96	hours	
1	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	11877.00 S	8 Hours pe	25	hours	
1	Cargo Apro	Subbase Pl	Roller	Diesel	3959.00 CY	8 Hours pe	24.36	hours	
1	Cargo Apro	Topsoil Pla	Dozer	Diesel	2106.80 CY	8 Hours pe	28.09	hours	
1	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	2106.80 CY	8 Hours pe	28.09	hours	
1	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	2106.80 CY	8 Hours pe	28.09	hours	
1	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	16150.50 S	8 Hours pe	20.19	hours	
1	Parking Lot	Asphalt Pla	Dump Truc	Diesel	16150.50 S	8 Hours pe	72.71	hours	
1	Parking Lot	Asphalt Pla	Other Gene	Diesel	16150.50 S	16 Hours p	40.38	hours	
1	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	16150.50 S	8 Hours pe	20.19	hours	
1	Parking Lot	Asphalt Pla	Roller	Diesel	16150.50 S	8 Hours pe	20.19	hours	
1	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	16150.50 S	8 Hours pe	20.19	hours	
1	Parking Lot	Asphalt Pla	Surfacing E	Diesel	16150.50 S	8 Hours pe	25.84	hours	
1	Parking Lot	Clearing an	Chain Saw	Diesel	3.60 Acre	12 Hours p	43.2	hours	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Parking Lot	Clearing an	Chipper/St	Diesel	3.60 Acre	12 Hours p	43.2	hours	
1	Parking Lot	Clearing an	Pickup Truc	Diesel	3.60 Acre	16 Hours p	57.6	hours	
1	Parking Lot	Curbing	Concrete T	Diesel	970.00 LF	8 Hours pe	19.4	hours	
1	Parking Lot	Curbing	Curb/Gutte	Diesel	970.00 LF	8 Hours pe	19.4	hours	
1	Parking Lot	Curbing	Other Gene	Diesel	970.00 LF	8 Hours pe	19.4	hours	
1	Parking Lot	Curbing	Pickup Truc	Diesel	970.00 LF	8 Hours pe	19.4	hours	
1	Parking Lot	Drainage -	Dozer	Diesel	980.00 LF	8 Hours pe	31.36	hours	
1	Parking Lot	Drainage -	Dump Truc	Diesel	980.00 LF	8 Hours pe	31.36	hours	
1	Parking Lot	Drainage -	Excavator	Diesel	980.00 LF	8 Hours pe	31.36	hours	
1	Parking Lot	Drainage -	Loader	Diesel	980.00 LF	8 Hours pe	31.36	hours	
1	Parking Lot	Drainage -	Other Gene	Diesel	980.00 LF	8 Hours pe	31.36	hours	
1	Parking Lot	Drainage -	Pickup Truc	Diesel	980.00 LF	8 Hours pe	31.36	hours	
1	Parking Lot	Drainage -	Roller	Diesel	980.00 LF	8 Hours pe	31.36	hours	
1	Parking Lot	Drainage -	Dump Truc	Diesel	5880.00 LF	8 Hours pe	52.27	hours	
1	Parking Lot	Drainage -	Loader	Diesel	5880.00 LF	8 Hours pe	52.27	hours	
1	Parking Lot	Drainage -	Other Gene	Diesel	5880.00 LF	8 Hours pe	52.27	hours	
1	Parking Lot	Drainage -	Pickup Truc	Diesel	5880.00 LF	8 Hours pe	52.27	hours	
1	Parking Lot	Drainage -	Tractors/Lc	Diesel	5880.00 LF	8 Hours pe	52.27	hours	
1	Parking Lot	Excavation	Dozer	Diesel	6729.40 CY	8 Hours pe	89.73	hours	
1	Parking Lot	Excavation	Dump Truc	Diesel	6729.40 CY	8 Hours pe	89.73	hours	
1	Parking Lot	Excavation	Pickup Truc	Diesel	6729.40 CY	8 Hours pe	89.73	hours	
1	Parking Lot	Excavation	Roller	Diesel	6729.40 CY	8 Hours pe	41.41	hours	
1	Parking Lot	Excavation	Dozer	Diesel	6729.40 CY	8 Hours pe	67.29	hours	
1	Parking Lot	Excavation	Dump Truc	Diesel	6729.40 CY	8 Hours pe	179.45	hours	
1	Parking Lot	Excavation	Excavator	Diesel	6729.40 CY	8 Hours pe	53.84	hours	
1	Parking Lot	Excavation	Pickup Truc	Diesel	6729.40 CY	8 Hours pe	53.84	hours	
1	Parking Lot	Excavation	Roller	Diesel	6729.40 CY	8 Hours pe	53.84	hours	
1	Parking Lot	Excavation	Scraper	Diesel	6729.40 CY	8 Hours pe	67.29	hours	
1	Parking Lot	Excavation	Dozer	Diesel	16150.50 S	8 Hours pe	25.33	hours	
1	Parking Lot	Fencing	Concrete T	Diesel	970.00 LF	2 Hours pe	10.78	hours	
1	Parking Lot	Fencing	Dump Truc	Diesel	970.00 LF	8 Hours pe	43.11	hours	
1	Parking Lot	Fencing	Other Gene	Diesel	970.00 LF	8 Hours pe	43.11	hours	
1	Parking Lot	Fencing	Pickup Truc	Diesel	970.00 LF	8 Hours pe	43.11	hours	
1	Parking Lot	Fencing	Skid Steer l	Diesel	970.00 LF	8 Hours pe	43.11	hours	
1	Parking Lot	Fencing	Tractors/Lc	Diesel	970.00 LF	8 Hours pe	43.11	hours	
1	Parking Lot	Grading	Dozer	Diesel	17404.80 S	8 Hours pe	17.4	hours	
1	Parking Lot	Grading	Grader	Diesel	17404.80 S	8 Hours pe	17.4	hours	
1	Parking Lot	Grading	Roller	Diesel	17404.80 S	8 Hours pe	17.4	hours	
1	Parking Lot	Hydroseed	Hydroseed	Diesel	156800.00	8 Hours pe	15.68	hours	
1	Parking Lot	Hydroseed	Off-Road T	Diesel	156800.00	8 Hours pe	15.68	hours	
1	Parking Lot	Markings	Flatbed Tru	Diesel	2240.00 SF	8 Hours pe	5.12	hours	
1	Parking Lot	Markings	Other Gene	Diesel	2240.00 SF	8 Hours pe	5.12	hours	
1	Parking Lot	Markings	Pickup Truc	Diesel	2240.00 SF	8 Hours pe	5.12	hours	
1	Parking Lot	Sidewalks	Concrete T	Diesel	2910.00 SF	8 Hours pe	38.8	hours	
1	Parking Lot	Sidewalks	Dump Truc	Diesel	2910.00 SF	8 Hours pe	38.8	hours	
1	Parking Lot	Sidewalks	Pickup Truc	Diesel	2910.00 SF	8 Hours pe	38.8	hours	
1	Parking Lot	Sidewalks	Tractors/Lc	Diesel	2910.00 SF	8 Hours pe	38.8	hours	
1	Parking Lot	Sidewalks	Vibratory C	Diesel	2910.00 SF	8 Hours pe	38.8	hours	
1	Parking Lot	Soil Erosior	Other Gene	Diesel	3.60 Acre	4 Hours pe	14.4	hours	
1	Parking Lot	Soil Erosior	Pickup Truc	Diesel	3.60 Acre	8 Hours pe	28.8	hours	
1	Parking Lot	Soil Erosior	Pumps	Diesel	3.60 Acre	4 Hours pe	14.4	hours	
1	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	3.60 Acre	4 Hours pe	14.4	hours	
1	Parking Lot	Street Light	Dump Truc	Diesel	3.60 Lights	8 Hours pe	9.6	hours	
1	Parking Lot	Street Light	Loader	Diesel	3.60 Lights	8 Hours pe	9.6	hours	
1	Parking Lot	Street Light	Other Gene	Diesel	3.60 Lights	8 Hours pe	9.6	hours	
1	Parking Lot	Street Light	Pickup Truc	Diesel	3.60 Lights	8 Hours pe	9.6	hours	
1	Parking Lot	Street Light	Skid Steer l	Diesel	3.60 Lights	8 Hours pe	9.6	hours	
1	Parking Lot	Street Light	Tractors/Lc	Diesel	3.60 Lights	8 Hours pe	9.6	hours	
1	Parking Lot	Subbase Pl	Dozer	Diesel	16150.50 S	8 Hours pe	34	hours	
1	Parking Lot	Subbase Pl	Dump Truc	Diesel	5383.50 CY	8 Hours pe	239.27	hours	
1	Parking Lot	Subbase Pl	Pickup Truc	Diesel	16150.50 S	8 Hours pe	34	hours	
1	Parking Lot	Subbase Pl	Roller	Diesel	5383.50 CY	8 Hours pe	33.13	hours	
1	Parking Lot	Topsoil Pla	Dozer	Diesel	2900.80 CY	8 Hours pe	38.68	hours	
1	Parking Lot	Topsoil Pla	Dump Truc	Diesel	2900.80 CY	8 Hours pe	38.68	hours	
1	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	2900.80 CY	8 Hours pe	38.68	hours	
1	Parking Lot	Tree Planti	Flatbed Tru	Diesel	0.00 Trees	8 Hours pe	0	hours	

ACEIT Output - Default Asphalt Application Rates

1	Parking Lot	Tree Planti	Other Gene	Diesel	0.00 Trees	8 Hours pe	0	hours	
1	Parking Lot	Tree Planti	Pickup Truc	Diesel	0.00 Trees	8 Hours pe	0	hours	
1	Parking Lot	Tree Planti	Tractors/Lo	Diesel	0.00 Trees	8 Hours pe	0	hours	
1	Rehabilitat	Asphalt Pla	Asphalt Pa	Diesel	101981.30	8 Hours pe	127.48	hours	
1	Rehabilitat	Asphalt Pla	Dump Truc	Diesel	101981.30	8 Hours pe	459.12	hours	
1	Rehabilitat	Asphalt Pla	Other Gene	Diesel	101981.30	16 Hours p	254.95	hours	
1	Rehabilitat	Asphalt Pla	Pickup Truc	Diesel	101981.30	8 Hours pe	127.48	hours	
1	Rehabilitat	Asphalt Pla	Roller	Diesel	101981.30	8 Hours pe	127.48	hours	
1	Rehabilitat	Asphalt Pla	Skid Steer L	Diesel	101981.30	8 Hours pe	127.48	hours	
1	Rehabilitat	Asphalt Pla	Surfacing E	Diesel	101981.30	8 Hours pe	163.17	hours	
1	Rehabilitat	Cold Millin	Cold Plane	Diesel	101981.30	8 Hours pe	203.96	hours	
1	Rehabilitat	Cold Millin	Dump Truc	Diesel	101981.30	8 Hours pe	203.96	hours	
1	Rehabilitat	Cold Millin	Pickup Truc	Diesel	101981.30	8 Hours pe	203.96	hours	
1	Rehabilitat	Cold Millin	Sweepers	Diesel	101981.30	8 Hours pe	203.96	hours	
1	Rehabilitat	Cold Millin	Water Truc	Diesel	101981.30	8 Hours pe	203.96	hours	
1	Rehabilitat	Dust Contr	Water Truc	Diesel	60.00 Day	8 Hours pe	480	hours	
1	Rehabilitat	Excavation	Dozer	Diesel	8498.40 CY	8 Hours pe	67.99	hours	
1	Rehabilitat	Excavation	Dump Truc	Diesel	8498.40 CY	8 Hours pe	226.62	hours	
1	Rehabilitat	Excavation	Excavator	Diesel	8498.40 CY	8 Hours pe	67.99	hours	
1	Rehabilitat	Excavation	Pickup Truc	Diesel	8498.40 CY	8 Hours pe	67.99	hours	
1	Rehabilitat	Excavation	Roller	Diesel	8498.40 CY	8 Hours pe	67.99	hours	
1	Rehabilitat	Excavation	Dozer	Diesel	20396.30 S	8 Hours pe	31.99	hours	
1	Rehabilitat	Grading	Dozer	Diesel	21269.80 S	8 Hours pe	21.27	hours	
1	Rehabilitat	Grading	Grader	Diesel	21269.80 S	8 Hours pe	21.27	hours	
1	Rehabilitat	Grading	Roller	Diesel	21269.80 S	8 Hours pe	21.27	hours	
1	Rehabilitat	Hydroseed	Hydroseed	Diesel	21269.80 S	8 Hours pe	2.13	hours	
1	Rehabilitat	Hydroseed	Off-Road T	Diesel	21269.80 S	8 Hours pe	2.13	hours	
1	Rehabilitat	Lighting	Dump Truc	Diesel	7850.00 LF	8 Hours pe	52.33	hours	
1	Rehabilitat	Lighting	Loader	Diesel	7850.00 LF	8 Hours pe	52.33	hours	
1	Rehabilitat	Lighting	Other Gene	Diesel	7850.00 LF	8 Hours pe	52.33	hours	
1	Rehabilitat	Lighting	Pickup Truc	Diesel	7850.00 LF	8 Hours pe	52.33	hours	
1	Rehabilitat	Lighting	Skid Steer L	Diesel	7850.00 LF	8 Hours pe	52.33	hours	
1	Rehabilitat	Lighting	Tractors/Lo	Diesel	7850.00 LF	8 Hours pe	52.33	hours	
1	Rehabilitat	Markings	Flatbed Tru	Diesel	918750.00	8 Hours pe	2100	hours	
1	Rehabilitat	Markings	Other Gene	Diesel	918750.00	8 Hours pe	2100	hours	
1	Rehabilitat	Markings	Pickup Truc	Diesel	918750.00	8 Hours pe	2100	hours	
1	Rehabilitat	Sealing Rar	Crack Clear	Diesel	3675.00 LF	8 Hours pe	10.5	hours	
1	Rehabilitat	Sealing Rar	Crack Filler	Diesel	3675.00 LF	8 Hours pe	10.5	hours	
1	Rehabilitat	Sealing Rar	Flatbed Tru	Diesel	3675.00 LF	8 Hours pe	10.5	hours	
1	Rehabilitat	Sealing Rar	Other Gene	Diesel	3675.00 LF	8 Hours pe	10.5	hours	
1	Rehabilitat	Sealing Rar	Pickup Truc	Diesel	3675.00 LF	8 Hours pe	10.5	hours	
1	Rehabilitat	Soil Erosior	Other Gene	Diesel	4.40 Acre	4 Hours pe	17.6	hours	
1	Rehabilitat	Soil Erosior	Pickup Truc	Diesel	4.40 Acre	8 Hours pe	35.2	hours	
1	Rehabilitat	Soil Erosior	Pumps	Diesel	4.40 Acre	4 Hours pe	17.6	hours	
1	Rehabilitat	Soil Erosior	Tractors/Lo	Diesel	4.40 Acre	4 Hours pe	17.6	hours	
1	Rehabilitat	Subbase Pl	Dozer	Diesel	101981.30	8 Hours pe	214.7	hours	
1	Rehabilitat	Subbase Pl	Dump Truc	Diesel	33993.80 C	8 Hours pe	1510.84	hours	
1	Rehabilitat	Subbase Pl	Pickup Truc	Diesel	101981.30	8 Hours pe	214.7	hours	
1	Rehabilitat	Subbase Pl	Roller	Diesel	33993.80 C	8 Hours pe	209.19	hours	
1	Rehabilitat	Topsoil Pla	Dozer	Diesel	3545.00 CY	8 Hours pe	47.27	hours	
1	Rehabilitat	Topsoil Pla	Dump Truc	Diesel	3545.00 CY	8 Hours pe	47.27	hours	
1	Rehabilitat	Topsoil Pla	Pickup Truc	Diesel	3545.00 CY	8 Hours pe	47.27	hours	
2	Building - 1	Concrete F	Backhoe	Diesel	100000.00	0.0048 Hou	480	hours	
2	Building - 1	Concrete F	Concrete P	Diesel	100000.00	0.0018 Hou	180	hours	
2	Building - 1	Concrete F	Concrete R	Diesel	100000.00	0.0036 Hou	360	hours	
2	Building - 1	Concrete F	Excavator	Diesel	100000.00	0.0016 Hou	160	hours	
2	Building - 1	Concrete F	Fork Truck	Diesel	100000.00	0.0048 Hou	480	hours	
2	Building - 1	Concrete F	Tool Truck	Diesel	100000.00	0.0012 Hou	120	hours	
2	Building - 1	Concrete F	Tractor Tra	Diesel	100000.00	0.0024 Hou	240	hours	
2	Building - 1	Constructic	Survey Cre	Diesel	100000.00	0.0001 Hou	10	hours	
2	Building - 1	Constructic	Tractor Tra	Diesel	100000.00	0.00004 Ho	4	hours	
2	Building - 1	Exterior W	Fork Truck	Diesel	100000.00	0.0084 Hou	840	hours	
2	Building - 1	Exterior W	Generator	Diesel	100000.00	0.0008 Hou	80	hours	
2	Building - 1	Exterior W	Grout Mixe	Diesel	100000.00	0.0042 Hou	420	hours	
2	Building - 1	Exterior W	Grout Whe	Diesel	100000.00	0.0016 Hou	160	hours	
2	Building - 1	Exterior W	Man Lift	Diesel	100000.00	0.0168 Hou	1680	hours	
2	Building - 1	Exterior W	Tool Truck	Diesel	100000.00	0.0042 Hou	420	hours	
2	Building - 1	Exterior W	Tractor Tra	Diesel	100000.00	0.0084 Hou	840	hours	
2	Building - 1	Exterior W	Truck Towe	Diesel	100000.00	0.0008 Hou	80	hours	
2	Building - 1	Interior Bui	Fork Truck	Diesel	100000.00	0.016 Hour	1600	hours	
2	Building - 1	Interior Bui	Man Lift	Diesel	100000.00	0.032 Hour	3200	hours	
2	Building - 1	Interior Bui	Tool Truck	Diesel	100000.00	0.016 Hour	1600	hours	
2	Building - 1	Interior Bui	Tractor Tra	Diesel	100000.00	0.016 Hour	1600	hours	
2	Building - 1	Roofing	High Lift	Diesel	100000.00	0.0016 Hou	160	hours	
2	Building - 1	Roofing	Man Lift	Diesel	100000.00	0.0004 Hou	40	hours	
2	Building - 1	Roofing	Material De	Diesel	100000.00	0.0006 Hou	60	hours	
2	Building - 1	Roofing	Tractor Tra	Diesel	100000.00	0.0004 Hou	40	hours	
2	Building - 1	Roofing	Truck Towe	Diesel	100000.00	0.0012 Hou	120	hours	
2	Building - 1	Security &	High Lift	Diesel	100000.00	0.008 Hour	800	hours	
2	Building - 1	Security &	Tool Truck	Diesel	100000.00	0.008 Hour	800	hours	
2	Building - 1	Structural S	90 Ton Cra	Diesel	100000.00	0.0024 Hou	240	hours	
2	Building - 1	Structural S	Concrete P	Diesel	100000.00	0.0006 Hou	60	hours	
2	Building - 1	Structural S	Concrete T	Diesel	100000.00	0.0006 Hou	60	hours	
2	Building - 1	Structural S	Fork Truck	Diesel	100000.00	0.0064 Hou	640	hours	
2	Building - 1	Structural S	Tool Truck	Diesel	100000.00	0.0016 Hou	160	hours	
2	Building - 1	Structural S	Tractor Tra	Diesel	100000.00	0.0036 Hou	360	hours	
2	Building - 1	Structural S	Trowel Ma	Diesel	100000.00	0.0004 Hou	40	hours	
2	Building - 1	Structural S	Truck Towe	Diesel	100000.00	0.0072 Hou	720	hours	
2	Cargo Apro	Clearing an	Chain Saw	Diesel	3.90 Acre	12 Hours p	46.8	hours	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	Cargo Apro	Clearing an	Chipper/St	Diesel	3.90 Acre	12 Hours p	46.8	hours	
2	Cargo Apro	Clearing an	Pickup Truc	Diesel	3.90 Acre	16 Hours p	62.4	hours	
2	Cargo Apro	Concrete P	Air Compre	Diesel	7423.10 CY	8 Hours pe	59.38	hours	
2	Cargo Apro	Concrete P	Concrete S	Diesel	7423.10 CY	8 Hours pe	59.38	hours	
2	Cargo Apro	Concrete P	Concrete T	Diesel	7423.10 CY	8 Hours pe	247.44	hours	
2	Cargo Apro	Concrete P	Other Gene	Diesel	7423.10 CY	16 Hours p	118.77	hours	
2	Cargo Apro	Concrete P	Pickup Truc	Diesel	7423.10 CY	24 Hours p	178.15	hours	
2	Cargo Apro	Concrete P	Rubber Tire	Diesel	7423.10 CY	8 Hours pe	59.38	hours	
2	Cargo Apro	Concrete P	Slip Form P	Diesel	7423.10 CY	8 Hours pe	59.38	hours	
2	Cargo Apro	Concrete P	Surfacing E	Diesel	7423.10 CY	8 Hours pe	59.38	hours	
2	Cargo Apro	Drainage -	Dozer	Diesel	652.00 LF	8 Hours pe	20.86	hours	
2	Cargo Apro	Drainage -	Dump Truc	Diesel	652.00 LF	8 Hours pe	20.86	hours	
2	Cargo Apro	Drainage -	Excavator	Diesel	652.00 LF	8 Hours pe	20.86	hours	
2	Cargo Apro	Drainage -	Loader	Diesel	652.00 LF	8 Hours pe	20.86	hours	
2	Cargo Apro	Drainage -	Other Gene	Diesel	652.00 LF	8 Hours pe	20.86	hours	
2	Cargo Apro	Drainage -	Pickup Truc	Diesel	652.00 LF	8 Hours pe	20.86	hours	
2	Cargo Apro	Drainage -	Roller	Diesel	652.00 LF	8 Hours pe	20.86	hours	
2	Cargo Apro	Drainage -	Dump Truc	Diesel	1304.00 LF	8 Hours pe	11.59	hours	
2	Cargo Apro	Drainage -	Loader	Diesel	1304.00 LF	8 Hours pe	11.59	hours	
2	Cargo Apro	Drainage -	Other Gene	Diesel	1304.00 LF	8 Hours pe	11.59	hours	
2	Cargo Apro	Drainage -	Pickup Truc	Diesel	1304.00 LF	8 Hours pe	11.59	hours	
2	Cargo Apro	Drainage -	Tractors/Lo	Diesel	1304.00 LF	8 Hours pe	11.59	hours	
2	Cargo Apro	Dust Contr	Water Truc	Diesel	90.00 Day	8 Hours pe	720	hours	
2	Cargo Apro	Excavation	Dozer	Diesel	7423.10 CY	8 Hours pe	98.97	hours	
2	Cargo Apro	Excavation	Dump Truc	Diesel	7423.10 CY	8 Hours pe	98.97	hours	
2	Cargo Apro	Excavation	Pickup Truc	Diesel	7423.10 CY	8 Hours pe	98.97	hours	
2	Cargo Apro	Excavation	Roller	Diesel	7423.10 CY	8 Hours pe	45.68	hours	
2	Cargo Apro	Excavation	Dozer	Diesel	7423.10 CY	8 Hours pe	74.23	hours	
2	Cargo Apro	Excavation	Dump Truc	Diesel	7423.10 CY	8 Hours pe	197.95	hours	
2	Cargo Apro	Excavation	Excavator	Diesel	7423.10 CY	8 Hours pe	59.38	hours	
2	Cargo Apro	Excavation	Pickup Truc	Diesel	7423.10 CY	8 Hours pe	59.38	hours	
2	Cargo Apro	Excavation	Roller	Diesel	7423.10 CY	8 Hours pe	59.38	hours	
2	Cargo Apro	Excavation	Scraper	Diesel	7423.10 CY	8 Hours pe	74.23	hours	
2	Cargo Apro	Excavation	Dozer	Diesel	17815.50 S	8 Hours pe	27.95	hours	
2	Cargo Apro	Fencing	Concrete T	Diesel	642.00 LF	2 Hours pe	7.13	hours	
2	Cargo Apro	Fencing	Dump Truc	Diesel	642.00 LF	8 Hours pe	28.53	hours	
2	Cargo Apro	Fencing	Other Gene	Diesel	642.00 LF	8 Hours pe	28.53	hours	
2	Cargo Apro	Fencing	Pickup Truc	Diesel	642.00 LF	8 Hours pe	28.53	hours	
2	Cargo Apro	Fencing	Skid Steer L	Diesel	642.00 LF	8 Hours pe	28.53	hours	
2	Cargo Apro	Fencing	Tractors/Lo	Diesel	642.00 LF	8 Hours pe	28.53	hours	
2	Cargo Apro	Grading	Dozer	Diesel	18816.70 S	8 Hours pe	18.82	hours	
2	Cargo Apro	Grading	Grader	Diesel	18816.70 S	8 Hours pe	18.82	hours	
2	Cargo Apro	Grading	Roller	Diesel	18816.70 S	8 Hours pe	18.82	hours	
2	Cargo Apro	Hydroseed	Hydroseed	Diesel	169520.00	8 Hours pe	16.95	hours	
2	Cargo Apro	Hydroseed	Off-Road T	Diesel	169520.00	8 Hours pe	16.95	hours	
2	Cargo Apro	Lighting	Dump Truc	Diesel	1784.00 LF	8 Hours pe	11.89	hours	
2	Cargo Apro	Lighting	Loader	Diesel	1784.00 LF	8 Hours pe	11.89	hours	
2	Cargo Apro	Lighting	Other Gene	Diesel	1784.00 LF	8 Hours pe	11.89	hours	
2	Cargo Apro	Lighting	Pickup Truc	Diesel	1784.00 LF	8 Hours pe	11.89	hours	
2	Cargo Apro	Lighting	Skid Steer L	Diesel	1784.00 LF	8 Hours pe	11.89	hours	
2	Cargo Apro	Lighting	Tractors/Lo	Diesel	1784.00 LF	8 Hours pe	11.89	hours	
2	Cargo Apro	Markings	Flatbed Tru	Diesel	160500.00	8 Hours pe	366.86	hours	
2	Cargo Apro	Markings	Other Gene	Diesel	160500.00	8 Hours pe	366.86	hours	
2	Cargo Apro	Markings	Pickup Truc	Diesel	160500.00	8 Hours pe	366.86	hours	
2	Cargo Apro	Sealing/Fue	Distributin	Diesel	17815.50 S	8 Hours pe	47.51	hours	
2	Cargo Apro	Sealing/Fue	Other Gene	Diesel	17815.50 S	8 Hours pe	47.51	hours	
2	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	17815.50 S	8 Hours pe	47.51	hours	
2	Cargo Apro	Soil Erosior	Other Gene	Diesel	3.90 Acre	4 Hours pe	15.6	hours	
2	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	3.90 Acre	8 Hours pe	31.2	hours	
2	Cargo Apro	Soil Erosior	Pumps	Diesel	3.90 Acre	4 Hours pe	15.6	hours	
2	Cargo Apro	Soil Erosior	Tractors/Lo	Diesel	3.90 Acre	4 Hours pe	15.6	hours	
2	Cargo Apro	Subbase Pl	Dozer	Diesel	17815.50 S	8 Hours pe	37.51	hours	
2	Cargo Apro	Subbase Pl	Dump Truc	Diesel	5938.50 CY	8 Hours pe	263.93	hours	
2	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	17815.50 S	8 Hours pe	37.51	hours	

ACEIT Output - Default Asphalt Application Rates

2	Cargo Apro	Subbase Pl	Roller	Diesel	5938.50	CY	8 Hours pe	36.54	hours
2	Cargo Apro	Topsoil Pla	Dozer	Diesel	3136.10	CY	8 Hours pe	41.81	hours
2	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	3136.10	CY	8 Hours pe	41.81	hours
2	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	3136.10	CY	8 Hours pe	41.81	hours
2	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	24225.80	S	8 Hours pe	30.28	hours
2	Parking Lot	Asphalt Pla	Dump Truc	Diesel	24225.80	S	8 Hours pe	109.06	hours
2	Parking Lot	Asphalt Pla	Other Gen	Diesel	24225.80	S	16 Hours p	60.56	hours
2	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	24225.80	S	8 Hours pe	30.28	hours
2	Parking Lot	Asphalt Pla	Roller	Diesel	24225.80	S	8 Hours pe	30.28	hours
2	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	24225.80	S	8 Hours pe	30.28	hours
2	Parking Lot	Asphalt Pla	Surfacing E	Diesel	24225.80	S	8 Hours pe	38.76	hours
2	Parking Lot	Clearing an	Chain Saw	Diesel	5.40	Acre	12 Hours p	64.8	hours
2	Parking Lot	Clearing an	Chipper/St	Diesel	5.40	Acre	12 Hours p	64.8	hours
2	Parking Lot	Clearing an	Pickup Truc	Diesel	5.40	Acre	16 Hours p	86.4	hours
2	Parking Lot	Curbing	Concrete T	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Curbing	Curb/Gutte	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Curbing	Other Gen	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Curbing	Pickup Truc	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Drainage -	Dozer	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Dump Truc	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Excavator	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Loader	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Other Gen	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Pickup Truc	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Roller	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Dump Truc	Diesel	8790.00	LF	8 Hours pe	78.13	hours
2	Parking Lot	Drainage -	Loader	Diesel	8790.00	LF	8 Hours pe	78.13	hours
2	Parking Lot	Drainage -	Other Gen	Diesel	8790.00	LF	8 Hours pe	78.13	hours
2	Parking Lot	Drainage -	Pickup Truc	Diesel	8790.00	LF	8 Hours pe	78.13	hours
2	Parking Lot	Drainage -	Tractors/Lc	Diesel	8790.00	LF	8 Hours pe	78.13	hours
2	Parking Lot	Excavation	Dozer	Diesel	10094.10	C	8 Hours pe	134.59	hours
2	Parking Lot	Excavation	Dump Truc	Diesel	10094.10	C	8 Hours pe	134.59	hours
2	Parking Lot	Excavation	Pickup Truc	Diesel	10094.10	C	8 Hours pe	134.59	hours
2	Parking Lot	Excavation	Roller	Diesel	10094.10	C	8 Hours pe	62.12	hours
2	Parking Lot	Excavation	Dozer	Diesel	10094.10	C	8 Hours pe	100.94	hours
2	Parking Lot	Excavation	Dump Truc	Diesel	10094.10	C	8 Hours pe	269.18	hours
2	Parking Lot	Excavation	Excavator	Diesel	10094.10	C	8 Hours pe	80.75	hours
2	Parking Lot	Excavation	Pickup Truc	Diesel	10094.10	C	8 Hours pe	80.75	hours
2	Parking Lot	Excavation	Roller	Diesel	10094.10	C	8 Hours pe	80.75	hours
2	Parking Lot	Excavation	Scraper	Diesel	10094.10	C	8 Hours pe	100.94	hours
2	Parking Lot	Excavation	Dozer	Diesel	24225.80	S	8 Hours pe	38	hours
2	Parking Lot	Fencing	Concrete T	Diesel	1455.00	LF	2 Hours pe	16.17	hours
2	Parking Lot	Fencing	Dump Truc	Diesel	1455.00	LF	8 Hours pe	64.67	hours
2	Parking Lot	Fencing	Other Gen	Diesel	1455.00	LF	8 Hours pe	64.67	hours
2	Parking Lot	Fencing	Pickup Truc	Diesel	1455.00	LF	8 Hours pe	64.67	hours
2	Parking Lot	Fencing	Skid Steer l	Diesel	1455.00	LF	8 Hours pe	64.67	hours
2	Parking Lot	Fencing	Tractors/Lc	Diesel	1455.00	LF	8 Hours pe	64.67	hours
2	Parking Lot	Grading	Dozer	Diesel	26018.40	S	8 Hours pe	26.02	hours
2	Parking Lot	Grading	Grader	Diesel	26018.40	S	8 Hours pe	26.02	hours
2	Parking Lot	Grading	Roller	Diesel	26018.40	S	8 Hours pe	26.02	hours
2	Parking Lot	Hydroseed	Hydroseed	Diesel	234400.00		8 Hours pe	23.44	hours
2	Parking Lot	Hydroseed	Off-Road T	Diesel	234400.00		8 Hours pe	23.44	hours
2	Parking Lot	Markings	Flatbed Tru	Diesel	3210.00	SF	8 Hours pe	7.34	hours
2	Parking Lot	Markings	Other Gen	Diesel	3210.00	SF	8 Hours pe	7.34	hours
2	Parking Lot	Markings	Pickup Truc	Diesel	3210.00	SF	8 Hours pe	7.34	hours
2	Parking Lot	Sidewalks	Concrete T	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Dump Truc	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Pickup Truc	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Tractors/Lc	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Vibratory C	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Soil Erosior	Other Gen	Diesel	5.40	Acre	4 Hours pe	21.6	hours
2	Parking Lot	Soil Erosior	Pickup Truc	Diesel	5.40	Acre	8 Hours pe	43.2	hours
2	Parking Lot	Soil Erosior	Pumps	Diesel	5.40	Acre	4 Hours pe	21.6	hours
2	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	5.40	Acre	4 Hours pe	21.6	hours
2	Parking Lot	Street Light	Dump Truc	Diesel	5.50	Lights	8 Hours pe	14.67	hours
2	Parking Lot	Street Light	Loader	Diesel	5.50	Lights	8 Hours pe	14.67	hours
2	Parking Lot	Street Light	Other Gen	Diesel	5.50	Lights	8 Hours pe	14.67	hours
2	Parking Lot	Street Light	Pickup Truc	Diesel	5.50	Lights	8 Hours pe	14.67	hours
2	Parking Lot	Street Light	Skid Steer l	Diesel	5.50	Lights	8 Hours pe	14.67	hours
2	Parking Lot	Street Light	Tractors/Lc	Diesel	5.50	Lights	8 Hours pe	14.67	hours
2	Parking Lot	Subbase Pl	Dozer	Diesel	24225.80	S	8 Hours pe	51	hours
2	Parking Lot	Subbase Pl	Dump Truc	Diesel	8075.30	CY	8 Hours pe	358.9	hours
2	Parking Lot	Subbase Pl	Pickup Truc	Diesel	24225.80	S	8 Hours pe	51	hours
2	Parking Lot	Subbase Pl	Roller	Diesel	8075.30	CY	8 Hours pe	49.69	hours
2	Parking Lot	Topsoil Pla	Dozer	Diesel	4336.40	CY	8 Hours pe	57.82	hours
2	Parking Lot	Topsoil Pla	Dump Truc	Diesel	4336.40	CY	8 Hours pe	57.82	hours
2	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	4336.40	CY	8 Hours pe	57.82	hours
2	Parking Lot	Tree Planti	Flatbed Tru	Diesel	0.00	Trees	8 Hours pe	0	hours
2	Parking Lot	Tree Planti	Other Gen	Diesel	0.00	Trees	8 Hours pe	0	hours
2	Parking Lot	Tree Planti	Pickup Truc	Diesel	0.00	Trees	8 Hours pe	0	hours
2	Parking Lot	Tree Planti	Tractors/Lc	Diesel	0.00	Trees	8 Hours pe	0	hours
3	Building - 1	Concrete F	Backhoe	Diesel	100000.00		0.0048 Hou	480	hours
3	Building - 1	Concrete F	Concrete P	Diesel	100000.00		0.0018 Hou	180	hours
3	Building - 1	Concrete F	Concrete R	Diesel	100000.00		0.0036 Hou	360	hours
3	Building - 1	Concrete F	Excavator	Diesel	100000.00		0.0016 Hou	160	hours
3	Building - 1	Concrete F	Fork Truck	Diesel	100000.00		0.0048 Hou	480	hours
3	Building - 1	Concrete F	Tool Truck	Diesel	100000.00		0.0012 Hou	120	hours
3	Building - 1	Concrete F	Tractor Tra	Diesel	100000.00		0.0024 Hou	240	hours
3	Building - 1	Constructic	Survey Cre	Diesel	100000.00		0.0001 Hou	10	hours
3	Building - 1	Constructic	Tractor Tra	Diesel	100000.00		0.00004 Ho	4	hours
3	Building - 1	Exterior W	Fork Truck	Diesel	100000.00		0.0084 Hou	840	hours
3	Building - 1	Exterior W	Generator	Diesel	100000.00		0.0008 Hou	80	hours
3	Building - 1	Exterior W	Grout Mixe	Diesel	100000.00		0.0042 Hou	420	hours
3	Building - 1	Exterior W	Grout Whe	Diesel	100000.00		0.0016 Hou	160	hours
3	Building - 1	Exterior W	Man Lift	Diesel	100000.00		0.0168 Hou	1680	hours
3	Building - 1	Exterior W	Tool Truck	Diesel	100000.00		0.0042 Hou	420	hours
3	Building - 1	Exterior W	Tractor Tra	Diesel	100000.00		0.0084 Hou	840	hours
3	Building - 1	Exterior W	Truck Towe	Diesel	100000.00		0.0008 Hou	80	hours
3	Building - 1	Interior Bui	Fork Truck	Diesel	100000.00		0.016 Hour	1600	hours
3	Building - 1	Interior Bui	Man Lift	Diesel	100000.00		0.032 Hour	3200	hours
3	Building - 1	Interior Bui	Tool Truck	Diesel	100000.00		0.016 Hour	1600	hours
3	Building - 1	Interior Bui	Tractor Tra	Diesel	100000.00		0.016 Hour	1600	hours
3	Building - 1	Roofing	High Lift	Diesel	100000.00		0.0016 Hou	160	hours
3	Building - 1	Roofing	Man Lift	Diesel	100000.00		0.0004 Hou	40	hours
3	Building - 1	Roofing	Material De	Diesel	100000.00		0.0006 Hou	60	hours
3	Building - 1	Roofing	Tractor Tra	Diesel	100000.00		0.0004 Hou	40	hours
3	Building - 1	Roofing	Truck Towe	Diesel	100000.00		0.0012 Hou	120	hours
3	Building - 1	Security &	High Lift	Diesel	100000.00		0.008 Hour	800	hours
3	Building - 1	Security &	Tool Truck	Diesel	100000.00		0.008 Hour	800	hours
3	Building - 1	Structural S	90 Ton Cra	Diesel	100000.00		0.0024 Hou	240	hours
3	Building - 1	Structural S	Concrete P	Diesel	100000.00		0.0006 Hou	60	hours
3	Building - 1	Structural S	Concrete T	Diesel	100000.00		0.0006 Hou	60	hours
3	Building - 1	Structural S	Fork Truck	Diesel	100000.00		0.0064 Hou	640	hours
3	Building - 1	Structural S	Tool Truck	Diesel	100000.00		0.0016 Hou	160	hours
3	Building - 1	Structural S	Tractor Tra	Diesel	100000.00		0.0036 Hou	360	hours
3	Building - 1	Structural S	Trowel Ma	Diesel	100000.00		0.0004 Hou	40	hours
3	Building - 1	Structural S	Truck Towe	Diesel	100000.00		0.0072 Hou	720	hours
3	Cargo Apro	Clearing an	Chain Saw	Diesel	5.20	Acre	12 Hours p	62.4	hours
3	Cargo Apro	Clearing an	Chipper/St	Diesel	5.20	Acre	12 Hours p	62.4	hours
3	Cargo Apro	Clearing an	Pickup Truc	Diesel	5.20	Acre	16 Hours p	83.2	hours
3	Cargo Apro	Concrete P	Air Compre	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Concrete P	Concrete S	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Concrete P	Concrete T	Diesel	9885.90	CY	8 Hours pe	329.53	hours
3	Cargo Apro	Concrete P	Other Gen	Diesel	9885.90	CY	16 Hours p	158.17	hours
3	Cargo Apro	Concrete P	Pickup Truc	Diesel	9885.90	CY	24 Hours p	237.26	hours
3	Cargo Apro	Concrete P	Rubber Tire	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Concrete P	Slip Form P	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Concrete P	Surfacing E	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Drainage -	Dozer	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Dump Truc	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Excavator	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Loader	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Other Gen	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Pickup Truc	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Roller	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Dump Truc	Diesel	1730.00	LF	8 Hours pe	15.38	hours
3	Cargo Apro	Drainage -	Loader	Diesel	1730.00	LF	8 Hours pe	15.38	hours
3	Cargo Apro	Drainage -	Other Gen	Diesel	1730.00	LF	8 Hours pe	15.38	hours
3	Cargo Apro	Drainage -	Pickup Truc	Diesel	1730.00	LF	8 Hours pe	15.38	hours
3	Cargo Apro	Drainage -	Tractors/Lc	Diesel	1730.00	LF	8 Hours pe	15.38	hours
3	Cargo Apro	Dust Contr	Water Truc	Diesel	180.00	Day	8 Hours pe	1440	hours
3	Cargo Apro	Excavation	Dozer	Diesel	9885.90	CY	8 Hours pe	131.81	hours
3	Cargo Apro	Excavation	Dump Truc	Diesel	9885.90	CY	8 Hours pe	131.81	hours
3	Cargo Apro	Excavation	Pickup Truc	Diesel	9885.90	CY	8 Hours pe	131.81	hours
3	Cargo Apro	Excavation	Roller	Diesel	9885.90	CY	8 Hours pe	60.84	hours
3	Cargo Apro	Excavation	Dozer	Diesel	9885.90	CY	8 Hours pe	98.86	hours
3	Cargo Apro	Excavation	Dump Truc	Diesel	9885.90	CY	8 Hours pe	263.62	hours
3	Cargo Apro	Excavation	Excavator	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Excavation	Pickup Truc	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Excavation	Roller	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Excavation	Scraper	Diesel	9885.90	CY	8 Hours pe	98.86	hours
3	Cargo Apro	Excavation	Dozer	Diesel	23726.30	S	8 Hours pe	37.22	hours
3	Cargo Apro	Fencing	Concrete T	Diesel	855.00	LF	2 Hours pe	9.5	hours

*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***

*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***

ACEIT Output - Default Asphalt Application Rates

3	Cargo Apro	Fencing	Dump Truc	Diesel	855.00	LF	8 Hours pe	38	hours	
3	Cargo Apro	Fencing	Other Gene	Diesel	855.00	LF	8 Hours pe	38	hours	
3	Cargo Apro	Fencing	Pickup Truc	Diesel	855.00	LF	8 Hours pe	38	hours	
3	Cargo Apro	Fencing	Skid Steer l	Diesel	855.00	LF	8 Hours pe	38	hours	
3	Cargo Apro	Fencing	Tractors/Lc	Diesel	855.00	LF	8 Hours pe	38	hours	
3	Cargo Apro	Grading	Dozer	Diesel	24963.90	S	8 Hours pe	24.96	hours	
3	Cargo Apro	Grading	Grader	Diesel	24963.90	S	8 Hours pe	24.96	hours	
3	Cargo Apro	Grading	Roller	Diesel	24963.90	S	8 Hours pe	24.96	hours	
3	Cargo Apro	Hydroseed	Hydroseed	Diesel	224900.00		8 Hours pe	22.49	hours	
3	Cargo Apro	Hydroseed	Off-Road T	Diesel	224900.00		8 Hours pe	22.49	hours	
3	Cargo Apro	Lighting	Dump Truc	Diesel	2210.00	LF	8 Hours pe	14.73	hours	
3	Cargo Apro	Lighting	Loader	Diesel	2210.00	LF	8 Hours pe	14.73	hours	
3	Cargo Apro	Lighting	Other Gene	Diesel	2210.00	LF	8 Hours pe	14.73	hours	
3	Cargo Apro	Lighting	Pickup Truc	Diesel	2210.00	LF	8 Hours pe	14.73	hours	
3	Cargo Apro	Lighting	Skid Steer l	Diesel	2210.00	LF	8 Hours pe	14.73	hours	
3	Cargo Apro	Lighting	Tractors/Lc	Diesel	2210.00	LF	8 Hours pe	14.73	hours	
3	Cargo Apro	Markings	Flatbed Tru	Diesel	213750.00		8 Hours pe	488.57	hours	
3	Cargo Apro	Markings	Other Gene	Diesel	213750.00		8 Hours pe	488.57	hours	
3	Cargo Apro	Markings	Pickup Truc	Diesel	213750.00		8 Hours pe	488.57	hours	
3	Cargo Apro	Sealing/Fue	Distributing	Diesel	23726.30	S	8 Hours pe	63.27	hours	
3	Cargo Apro	Sealing/Fue	Other Gene	Diesel	23726.30	S	8 Hours pe	63.27	hours	
3	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	23726.30	S	8 Hours pe	63.27	hours	
3	Cargo Apro	Soil Erosior	Other Gene	Diesel	5.20	Acre	4 Hours pe	20.8	hours	
3	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	5.20	Acre	8 Hours pe	41.6	hours	
3	Cargo Apro	Soil Erosior	Pumps	Diesel	5.20	Acre	4 Hours pe	20.8	hours	
3	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	5.20	Acre	4 Hours pe	20.8	hours	
3	Cargo Apro	Subbase Pl	Dozer	Diesel	23726.30	S	8 Hours pe	49.95	hours	
3	Cargo Apro	Subbase Pl	Dump Truc	Diesel	7908.80	CY	8 Hours pe	351.5	hours	
3	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	23726.30	S	8 Hours pe	49.95	hours	
3	Cargo Apro	Subbase Pl	Roller	Diesel	7908.80	CY	8 Hours pe	48.67	hours	
3	Cargo Apro	Topsoil Pla	Dozer	Diesel	4160.70	CY	8 Hours pe	55.48	hours	
3	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	4160.70	CY	8 Hours pe	55.48	hours	
3	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	4160.70	CY	8 Hours pe	55.48	hours	
3	Drainage S	Drainage -	Dozer	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Dump Truc	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Excavator	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Loader	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Other Gene	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Pickup Truc	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Roller	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Dozer	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage -	Dump Truc	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage -	Excavator	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage -	Loader	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage -	Other Gene	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage -	Pickup Truc	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage -	Roller	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage St	Dump Truc	Diesel	1.20	Unit	4 Hours pe	4.8	hours	
3	Drainage S	Drainage St	Excavator	Diesel	1.20	Unit	8 Hours pe	4.8	hours	
3	Drainage S	Drainage St	Other Gene	Diesel	1.20	Unit	8 Hours pe	9.6	hours	
3	Drainage S	Drainage St	Pickup Truc	Diesel	1.20	Unit	8 Hours pe	9.6	hours	
3	Drainage S	Hydroseed	Hydroseed	Diesel	12200.00	S	8 Hours pe	1.22	hours	
3	Drainage S	Hydroseed	Off-Road T	Diesel	12200.00	S	8 Hours pe	1.22	hours	
3	Drainage S	Soil Erosior	Other Gene	Diesel	0.30	Acre	4 Hours pe	1.2	hours	
3	Drainage S	Soil Erosior	Pickup Truc	Diesel	0.30	Acre	8 Hours pe	2.4	hours	
3	Drainage S	Soil Erosior	Pumps	Diesel	0.30	Acre	4 Hours pe	1.2	hours	
3	Drainage S	Soil Erosior	Tractors/Lc	Diesel	0.30	Acre	4 Hours pe	1.2	hours	
3	Drainage S	Topsoil Pla	Dozer	Diesel	225.70	CY	8 Hours pe	3.01	hours	
3	Drainage S	Topsoil Pla	Dump Truc	Diesel	225.70	CY	8 Hours pe	3.01	hours	
3	Drainage S	Topsoil Pla	Pickup Truc	Diesel	225.70	CY	8 Hours pe	3.01	hours	
3	Fuel Tanks	Clearing an	Chain Saw	Diesel	1.10	Acre	12 Hours p	13.2	hours	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Fuel Tanks	Clearing an	Chipper/St	Diesel	1.10	Acre	12 Hours p	13.2	hours	
3	Fuel Tanks	Clearing an	Pickup Truc	Diesel	1.10	Acre	16 Hours p	17.6	hours	
3	Fuel Tanks	Concrete P	Air Compre	Diesel	1919.40	CY	8 Hours pe	15.36	hours	
3	Fuel Tanks	Concrete P	Concrete S	Diesel	1919.40	CY	8 Hours pe	15.36	hours	
3	Fuel Tanks	Concrete P	Concrete T	Diesel	1919.40	CY	8 Hours pe	63.98	hours	
3	Fuel Tanks	Concrete P	Other Gene	Diesel	1919.40	CY	16 Hours p	30.71	hours	
3	Fuel Tanks	Concrete P	Pickup Truc	Diesel	1919.40	CY	24 Hours p	46.07	hours	
3	Fuel Tanks	Concrete P	Rubber Tire	Diesel	1919.40	CY	8 Hours pe	15.36	hours	
3	Fuel Tanks	Concrete P	Slip Form P	Diesel	1919.40	CY	8 Hours pe	15.36	hours	
3	Fuel Tanks	Concrete P	Surfacing E	Diesel	1919.40	CY	8 Hours pe	15.36	hours	
3	Fuel Tanks	Constructic	Crane	Diesel	5.00	Tank	3 Hours pe	15	hours	
3	Fuel Tanks	Constructic	Other Gene	Diesel	5.00	Tank	8 Hours pe	40	hours	
3	Fuel Tanks	Constructic	Pickup Truc	Diesel	5.00	Tank	8 Hours pe	40	hours	
3	Fuel Tanks	Drainage -	Excavator	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Drainage	Dozer	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Drainage	Dump Truc	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Drainage	Loader	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Drainage	Other Gene	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Drainage	Pickup Truc	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Drainage	Roller	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Dust Contr	Water Truc	Diesel	180.00	Day	8 Hours pe	1440	hours	
3	Fuel Tanks	Excavation	Dozer	Diesel	6142.00	CY	8 Hours pe	81.89	hours	
3	Fuel Tanks	Excavation	Dump Truc	Diesel	6142.00	CY	8 Hours pe	81.89	hours	
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	6142.00	CY	8 Hours pe	81.89	hours	
3	Fuel Tanks	Excavation	Roller	Diesel	6142.00	CY	8 Hours pe	37.8	hours	
3	Fuel Tanks	Excavation	Dozer	Diesel	6142.00	CY	8 Hours pe	61.42	hours	
3	Fuel Tanks	Excavation	Dump Truc	Diesel	6142.00	CY	8 Hours pe	163.79	hours	
3	Fuel Tanks	Excavation	Excavator	Diesel	6142.00	CY	8 Hours pe	49.14	hours	
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	6142.00	CY	8 Hours pe	49.14	hours	
3	Fuel Tanks	Excavation	Roller	Diesel	6142.00	CY	8 Hours pe	49.14	hours	
3	Fuel Tanks	Excavation	Scraper	Diesel	6142.00	CY	8 Hours pe	61.42	hours	
3	Fuel Tanks	Excavation	Dozer	Diesel	4606.50	SY	8 Hours pe	7.23	hours	
3	Fuel Tanks	Fencing	Concrete T	Diesel	415.00	LF	2 Hours pe	4.61	hours	
3	Fuel Tanks	Fencing	Dump Truc	Diesel	415.00	LF	8 Hours pe	18.44	hours	
3	Fuel Tanks	Fencing	Other Gene	Diesel	415.00	LF	8 Hours pe	18.44	hours	
3	Fuel Tanks	Fencing	Pickup Truc	Diesel	415.00	LF	8 Hours pe	18.44	hours	
3	Fuel Tanks	Fencing	Skid Steer l	Diesel	415.00	LF	8 Hours pe	18.44	hours	
3	Fuel Tanks	Fencing	Tractors/Lc	Diesel	415.00	LF	8 Hours pe	18.44	hours	
3	Fuel Tanks	Grading	Dozer	Diesel	5189.30	SY	8 Hours pe	5.19	hours	
3	Fuel Tanks	Grading	Grader	Diesel	5189.30	SY	8 Hours pe	5.19	hours	
3	Fuel Tanks	Grading	Roller	Diesel	5189.30	SY	8 Hours pe	5.19	hours	
3	Fuel Tanks	Hydroseed	Hydroseed	Diesel	46750.00	S	8 Hours pe	4.68	hours	
3	Fuel Tanks	Hydroseed	Off-Road T	Diesel	46750.00	S	8 Hours pe	4.68	hours	
3	Fuel Tanks	Markings	Flatbed Tru	Diesel	41500.00	S	8 Hours pe	94.86	hours	
3	Fuel Tanks	Markings	Other Gene	Diesel	41500.00	S	8 Hours pe	94.86	hours	
3	Fuel Tanks	Markings	Pickup Truc	Diesel	41500.00	S	8 Hours pe	94.86	hours	
3	Fuel Tanks	Soil Erosior	Other Gene	Diesel	1.10	Acre	4 Hours pe	4.4	hours	
3	Fuel Tanks	Soil Erosior	Pickup Truc	Diesel	1.10	Acre	8 Hours pe	8.8	hours	
3	Fuel Tanks	Soil Erosior	Pumps	Diesel	1.10	Acre	4 Hours pe	4.4	hours	
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel	1.10	Acre	4 Hours pe	4.4	hours	
3	Fuel Tanks	Street Light	Dump Truc	Diesel	1.00	Lights	8 Hours pe	2.67	hours	
3	Fuel Tanks	Street Light	Loader	Diesel	1.00	Lights	8 Hours pe	2.67	hours	
3	Fuel Tanks	Street Light	Other Gene	Diesel	1.00	Lights	8 Hours pe	2.67	hours	
3	Fuel Tanks	Street Light	Pickup Truc	Diesel	1.00	Lights	8 Hours pe	2.67	hours	
3	Fuel Tanks	Street Light	Skid Steer l	Diesel	1.00	Lights	8 Hours pe	2.67	hours	
3	Fuel Tanks	Street Light	Tractors/Lc	Diesel	1.00	Lights	8 Hours pe	2.67	hours	
3	Fuel Tanks	Subbase Pl	Dozer	Diesel	4606.50	SY	8 Hours pe	9.7	hours	
3	Fuel Tanks	Subbase Pl	Dump Truc	Diesel	1535.50	CY	8 Hours pe	68.24	hours	
3	Fuel Tanks	Subbase Pl	Pickup Truc	Diesel	4606.50	SY	8 Hours pe	9.7	hours	
3	Fuel Tanks	Subbase Pl	Roller	Diesel	1535.50	CY	8 Hours pe	9.45	hours	
3	Fuel Tanks	Topsoil Pla	Dozer	Diesel	1729.80	CY	8 Hours pe	23.06	hours	
3	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel	1729.80	CY	8 Hours pe	23.06	hours	
3	Fuel Tanks	Topsoil Pla	Pickup Truc	Diesel	1729.80	CY	8 Hours pe	23.06	hours	
3	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	40376.30	S	8 Hours pe	50.47	hours	
3	Parking Lot	Asphalt Pla	Dump Truc	Diesel	40376.30	S	8 Hours pe	181.77	hours	
3	Parking Lot	Asphalt Pla	Other Gene	Diesel	40376.30	S	16 Hours p	100.94	hours	
3	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	40376.30	S	8 Hours pe	50.47	hours	
3	Parking Lot	Asphalt Pla	Roller	Diesel	40376.30	S	8 Hours pe	50.47	hours	
3	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	40376.30	S	8 Hours pe	50.47	hours	
3	Parking Lot	Asphalt Pla	Surfacing E	Diesel	40376.30	S	8 Hours pe	64.6	hours	
3	Parking Lot	Clearing an	Chain Saw	Diesel	9.00	Acre	12 Hours p	108	hours	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Parking Lot	Clearing an	Chipper/St	Diesel	9.00	Acre	12 Hours p	108	hours	
3	Parking Lot	Clearing an	Pickup Truc	Diesel	9.00	Acre	16 Hours p	144	hours	
3	Parking Lot	Curbing	Concrete T	Diesel	2425.00	LF	8 Hours pe	48.5	hours	
3	Parking Lot	Curbing	Curb/Gutte	Diesel	2425.00	LF	8 Hours pe	48.5	hours	
3	Parking Lot	Curbing	Other Gene	Diesel	2425.00	LF	8 Hours pe	48.5	hours	
3	Parking Lot	Curbing	Pickup Truc	Diesel	2425.00	LF	8 Hours pe	48.5	hours	
3	Parking Lot	Drainage -	Dozer	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Dump Truc	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Excavator	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Loader	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Other Gene	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Pickup Truc	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Roller	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Dump Truc	Diesel	14610.00	L	8 Hours pe	129.87	hours	
3	Parking Lot	Drainage -	Loader	Diesel	14610.00	L	8 Hours pe	129.87	hours	
3	Parking Lot	Drainage -	Other Gene	Diesel	14610.00	L	8 Hours pe	129.87	hours	
3	Parking Lot	Drainage -	Pickup Truc	Diesel	14610.00	L	8 Hours pe	129.87	hours	
3	Parking Lot	Drainage -	Tractors/Lc	Diesel	14610.00	L	8 Hours pe	129.87	hours	
3	Parking Lot	Excavation	Dozer	Diesel	16823.40	C	8 Hours pe	224.31	hours	
3	Parking Lot	Excavation	Dump Truc	Diesel	16823.40	C	8 Hours pe	224.31	hours	
3	Parking Lot	Excavation	Pickup Truc	Diesel	16823.40	C	8 Hours pe	224.31	hours	

ACEIT Output - Default Asphalt Application Rates

3	Parking Lot	Excavation	Roller	Diesel	16823.40 C	8 Hours pe	103.53	hours		
3	Parking Lot	Excavation	Dozer	Diesel	16823.40 C	8 Hours pe	168.23	hours		
3	Parking Lot	Excavation	Dump Truc	Diesel	16823.40 C	8 Hours pe	448.62	hours		
3	Parking Lot	Excavation	Excavator	Diesel	16823.40 C	8 Hours pe	134.59	hours		
3	Parking Lot	Excavation	Pickup Truc	Diesel	16823.40 C	8 Hours pe	134.59	hours		
3	Parking Lot	Excavation	Roller	Diesel	16823.40 C	8 Hours pe	134.59	hours		
3	Parking Lot	Excavation	Scraper	Diesel	16823.40 C	8 Hours pe	168.23	hours		
3	Parking Lot	Excavation	Dozer	Diesel	40376.30 S	8 Hours pe	63.34	hours		
3	Parking Lot	Fencing	Concrete T	Diesel	2425.00 LF	2 Hours pe	26.94	hours		
3	Parking Lot	Fencing	Dump Truc	Diesel	2425.00 LF	8 Hours pe	107.78	hours		
3	Parking Lot	Fencing	Other Gene	Diesel	2425.00 LF	8 Hours pe	107.78	hours		
3	Parking Lot	Fencing	Pickup Truc	Diesel	2425.00 LF	8 Hours pe	107.78	hours		
3	Parking Lot	Fencing	Skid Steer l	Diesel	2425.00 LF	8 Hours pe	107.78	hours		
3	Parking Lot	Fencing	Tractors/Lc	Diesel	2425.00 LF	8 Hours pe	107.78	hours		
3	Parking Lot	Grading	Dozer	Diesel	43245.60 S	8 Hours pe	43.25	hours		
3	Parking Lot	Grading	Grader	Diesel	43245.60 S	8 Hours pe	43.25	hours		
3	Parking Lot	Grading	Roller	Diesel	43245.60 S	8 Hours pe	43.25	hours		
3	Parking Lot	Hydroseed	Hydroseed	Diesel	389600.00	8 Hours pe	38.96	hours		
3	Parking Lot	Hydroseed	Off-Road T	Diesel	389600.00	8 Hours pe	38.96	hours		
3	Parking Lot	Markings	Flatbed Tru	Diesel	5150.00 SF	8 Hours pe	11.77	hours		
3	Parking Lot	Markings	Other Gene	Diesel	5150.00 SF	8 Hours pe	11.77	hours		
3	Parking Lot	Markings	Pickup Truc	Diesel	5150.00 SF	8 Hours pe	11.77	hours		
3	Parking Lot	Sidewalks	Concrete T	Diesel	7275.00 SF	8 Hours pe	97	hours		
3	Parking Lot	Sidewalks	Dump Truc	Diesel	7275.00 SF	8 Hours pe	97	hours		
3	Parking Lot	Sidewalks	Pickup Truc	Diesel	7275.00 SF	8 Hours pe	97	hours		
3	Parking Lot	Sidewalks	Tractors/Lc	Diesel	7275.00 SF	8 Hours pe	97	hours		
3	Parking Lot	Sidewalks	Vibratory C	Diesel	7275.00 SF	8 Hours pe	97	hours		
3	Parking Lot	Soil Erosior	Other Gene	Diesel	9.00 Acre	4 Hours pe	36	hours		
3	Parking Lot	Soil Erosior	Pickup Truc	Diesel	9.00 Acre	8 Hours pe	72	hours		
3	Parking Lot	Soil Erosior	Pumps	Diesel	9.00 Acre	4 Hours pe	36	hours		
3	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	9.00 Acre	4 Hours pe	36	hours		
3	Parking Lot	Street Light	Dump Truc	Diesel	9.10 Lights	8 Hours pe	24.27	hours		
3	Parking Lot	Street Light	Loader	Diesel	9.10 Lights	8 Hours pe	24.27	hours		
3	Parking Lot	Street Light	Other Gene	Diesel	9.10 Lights	8 Hours pe	24.27	hours		
3	Parking Lot	Street Light	Pickup Truc	Diesel	9.10 Lights	8 Hours pe	24.27	hours		
3	Parking Lot	Street Light	Skid Steer l	Diesel	9.10 Lights	8 Hours pe	24.27	hours		
3	Parking Lot	Street Light	Tractors/Lc	Diesel	9.10 Lights	8 Hours pe	24.27	hours		
3	Parking Lot	Subbase Pl	Dozer	Diesel	40376.30 S	8 Hours pe	85	hours		
3	Parking Lot	Subbase Pl	Dump Truc	Diesel	13458.80 C	8 Hours pe	598.17	hours		
3	Parking Lot	Subbase Pl	Pickup Truc	Diesel	40376.30 S	8 Hours pe	85	hours		
3	Parking Lot	Subbase Pl	Roller	Diesel	13458.80 C	8 Hours pe	82.82	hours		
3	Parking Lot	Topsoil Pla	Dozer	Diesel	7207.60 CY	8 Hours pe	96.1	hours		
3	Parking Lot	Topsoil Pla	Dump Truc	Diesel	7207.60 CY	8 Hours pe	96.1	hours		
3	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	7207.60 CY	8 Hours pe	96.1	hours		
3	Parking Lot	Tree Planti	Flatbed Tru	Diesel	5.00 Trees	8 Hours pe	4	hours		
3	Parking Lot	Tree Planti	Other Gene	Diesel	5.00 Trees	8 Hours pe	4	hours		
3	Parking Lot	Tree Planti	Pickup Truc	Diesel	5.00 Trees	8 Hours pe	4	hours		
3	Parking Lot	Tree Planti	Tractors/Lc	Diesel	5.00 Trees	8 Hours pe	4	hours		
3	Taxiways	Asphalt Pla	Asphalt Pa	Diesel	13375.50 S	8 Hours pe	16.72	hours		
3	Taxiways	Asphalt Pla	Dump Truc	Diesel	13375.50 S	8 Hours pe	60.22	hours		
3	Taxiways	Asphalt Pla	Other Gene	Diesel	13375.50 S	16 Hours p	33.44	hours		
3	Taxiways	Asphalt Pla	Pickup Truc	Diesel	13375.50 S	8 Hours pe	16.72	hours		
3	Taxiways	Asphalt Pla	Roller	Diesel	13375.50 S	8 Hours pe	16.72	hours		
3	Taxiways	Asphalt Pla	Skid Steer l	Diesel	13375.50 S	8 Hours pe	16.72	hours		
3	Taxiways	Asphalt Pla	Surfacing E	Diesel	13375.50 S	8 Hours pe	21.4	hours		
3	Taxiways	Clearing an	Chain Saw	Diesel	3.10 Acre	12 Hours p	37.2	hours	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***	
3	Taxiways	Clearing an	Chipper/St	Diesel	3.10 Acre	12 Hours p	37.2	hours		
3	Taxiways	Clearing an	Pickup Truc	Diesel	3.10 Acre	16 Hours p	49.6	hours		
3	Taxiways	Drainage -	Dozer	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Dump Truc	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Excavator	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Loader	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Other Gene	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Pickup Truc	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Roller	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Dump Truc	Diesel	2430.00 LF	8 Hours pe	21.6	hours		
3	Taxiways	Drainage -	Loader	Diesel	2430.00 LF	8 Hours pe	21.6	hours		
3	Taxiways	Drainage -	Other Gene	Diesel	2430.00 LF	8 Hours pe	21.6	hours		
3	Taxiways	Drainage -	Pickup Truc	Diesel	2430.00 LF	8 Hours pe	21.6	hours		
3	Taxiways	Drainage -	Tractors/Lc	Diesel	2430.00 LF	8 Hours pe	21.6	hours		
3	Taxiways	Dust Contr	Water Truc	Diesel	180.00 Day	8 Hours pe	1440	hours		
3	Taxiways	Excavation	Dozer	Diesel	5573.10 CY	8 Hours pe	74.31	hours		
3	Taxiways	Excavation	Dump Truc	Diesel	5573.10 CY	8 Hours pe	74.31	hours		
3	Taxiways	Excavation	Pickup Truc	Diesel	5573.10 CY	8 Hours pe	74.31	hours		
3	Taxiways	Excavation	Roller	Diesel	5573.10 CY	8 Hours pe	34.3	hours		
3	Taxiways	Excavation	Dozer	Diesel	5573.10 CY	8 Hours pe	55.73	hours		
3	Taxiways	Excavation	Dump Truc	Diesel	5573.10 CY	8 Hours pe	148.62	hours		
3	Taxiways	Excavation	Excavator	Diesel	5573.10 CY	8 Hours pe	44.58	hours		
3	Taxiways	Excavation	Pickup Truc	Diesel	5573.10 CY	8 Hours pe	44.58	hours		
3	Taxiways	Excavation	Roller	Diesel	5573.10 CY	8 Hours pe	44.58	hours		
3	Taxiways	Excavation	Scraper	Diesel	5573.10 CY	8 Hours pe	55.73	hours		
3	Taxiways	Excavation	Dozer	Diesel	13375.50 S	8 Hours pe	20.98	hours		
3	Taxiways	Fencing	Concrete T	Diesel	1205.00 LF	2 Hours pe	13.39	hours		
3	Taxiways	Fencing	Dump Truc	Diesel	1205.00 LF	8 Hours pe	53.56	hours		
3	Taxiways	Fencing	Other Gene	Diesel	1205.00 LF	8 Hours pe	53.56	hours		
3	Taxiways	Fencing	Pickup Truc	Diesel	1205.00 LF	8 Hours pe	53.56	hours		
3	Taxiways	Fencing	Skid Steer l	Diesel	1205.00 LF	8 Hours pe	53.56	hours		
3	Taxiways	Fencing	Tractors/Lc	Diesel	1205.00 LF	8 Hours pe	53.56	hours		
3	Taxiways	Grading	Dozer	Diesel	14835.20 S	8 Hours pe	14.84	hours		
3	Taxiways	Grading	Grader	Diesel	14835.20 S	8 Hours pe	14.84	hours		
3	Taxiways	Grading	Roller	Diesel	14835.20 S	8 Hours pe	14.84	hours		
3	Taxiways	Hydroseed	Hydroseed	Diesel	133650.00	8 Hours pe	13.37	hours		
3	Taxiways	Hydroseed	Off-Road T	Diesel	133650.00	8 Hours pe	13.37	hours		
3	Taxiways	Lighting	Dump Truc	Diesel	2610.00 LF	8 Hours pe	17.4	hours		
3	Taxiways	Lighting	Loader	Diesel	2610.00 LF	8 Hours pe	17.4	hours		
3	Taxiways	Lighting	Other Gene	Diesel	2610.00 LF	8 Hours pe	17.4	hours		
3	Taxiways	Lighting	Pickup Truc	Diesel	2610.00 LF	8 Hours pe	17.4	hours		
3	Taxiways	Lighting	Skid Steer l	Diesel	2610.00 LF	8 Hours pe	17.4	hours		
3	Taxiways	Lighting	Tractors/Lc	Diesel	2610.00 LF	8 Hours pe	17.4	hours		
3	Taxiways	Markings	Flatbed Tru	Diesel	120500.00	8 Hours pe	275.43	hours		
3	Taxiways	Markings	Other Gene	Diesel	120500.00	8 Hours pe	275.43	hours		
3	Taxiways	Markings	Pickup Truc	Diesel	120500.00	8 Hours pe	275.43	hours		
3	Taxiways	Soil Erosior	Other Gene	Diesel	3.10 Acre	4 Hours pe	12.4	hours		
3	Taxiways	Soil Erosior	Pickup Truc	Diesel	3.10 Acre	8 Hours pe	24.8	hours		
3	Taxiways	Soil Erosior	Pumps	Diesel	3.10 Acre	4 Hours pe	12.4	hours		
3	Taxiways	Soil Erosior	Tractors/Lc	Diesel	3.10 Acre	4 Hours pe	12.4	hours		
3	Taxiways	Subbase Pl	Dozer	Diesel	13375.50 S	8 Hours pe	28.16	hours		
3	Taxiways	Subbase Pl	Dump Truc	Diesel	4458.50 CY	8 Hours pe	198.16	hours		
3	Taxiways	Subbase Pl	Pickup Truc	Diesel	13375.50 S	8 Hours pe	28.16	hours		
3	Taxiways	Subbase Pl	Roller	Diesel	4458.50 CY	8 Hours pe	27.44	hours		
3	Taxiways	Topsoil Pla	Dozer	Diesel	2472.50 CY	8 Hours pe	32.97	hours		
3	Taxiways	Topsoil Pla	Dump Truc	Diesel	2472.50 CY	8 Hours pe	32.97	hours		
3	Taxiways	Topsoil Pla	Pickup Truc	Diesel	2472.50 CY	8 Hours pe	32.97	hours		

Activity: On-Road (Estimated based on engineering experience)

Scenario ID	Project	Equipment	On-road Ac	Fuel	Roadway T	Round Trip	Number of	Number of	Project Len	Project Wic	Project Are	Building He	Open Spac	Number of	Activity Siz	Activity Rat	Default VM	User VMT
1	Cargo Apro	Asphalt 18	Material De	Diesel	Urban Unre	40	--	43	428	250	--	--	--	--	--	--	1553	
1	Cargo Apro	Cement Mi	Material De	Diesel	Urban Unre	40	--	43	428	250	--	--	--	--	--	--	24744	
1	Cargo Apro	Dump Truc	Material De	Diesel	Urban Unre	40	--	43	428	250	--	--	--	--	--	--	2199	
1	Cargo Apro	Dump Truc	Material De	Diesel	Urban Unre	40	--	43	428	250	--	--	--	--	--	--	13197	
1	Cargo Apro	Passenger	Employee (	Gasoline	Urban Unre	30	69	43	--	--	--	--	--	--	--	--	89010	
1	Parking Lot	Asphalt 18	Material De	Diesel	Urban Unre	40	--	43	970	150	--	--	--	--	--	--	2111	
1	Parking Lot	Cement Mi	Material De	Diesel	Urban Unre	40	--	43	970	150	--	--	--	--	--	--	33647	
1	Parking Lot	Dump Truc	Material De	Diesel	Urban Unre	40	--	43	970	150	--	--	--	--	--	--	2991	
1	Parking Lot	Dump Truc	Material De	Diesel	Urban Unre	40	--	43	970	150	--	--	--	--	--	--	17945	
1	Parking Lot	Passenger	Employee (	Gasoline	Urban Unre	30	77	43	--	--	--	--	--	--	--	--	99330	
1	Rehabilitat	Asphalt 18	Material De	Diesel	Urban Unre	40	--	43	3675	250	--	--	--	--	--	--	13331	
1	Rehabilitat	Cement Mi	Material De	Diesel	Urban Unre	40	--	43	3675	250	--	--	--	--	--	--	212461	
1	Rehabilitat	Dump Truc	Material De	Diesel	Urban Unre	40	--	43	3675	250	--	--	--	--	--	--	18885	
1	Rehabilitat	Dump Truc	Material De	Diesel	Urban Unre	40	--	43	3675	250	--	--	--	--	--	--	113313	
1	Rehabilitat	Passenger	Employee (	Gasoline	Urban Unre	30	49	43	--	--	--	--	--	--	--	--	63210	
2	Building - 1	Cement Mi	Material De	Diesel	Urban Unre	40	--	65	--	--	100000	--	--	--	--	--	23125	
2	Building - 1	Dump Truc	Material De	Diesel	Urban Unre	40	--	65	--	--	100000	--	--	--	--	--	12333	
2	Building - 1	Passenger	Employee (	Gasoline	Urban Unre	30	137.5	65	--	--	--	--	--	--	--	--	268125	
2	Building - 1	Tractor Tra	Material De	Diesel	Urban Unre	40	--	65	--	--	100000	--	--	--	--	0.0024	2400	
2	Cargo Apro	Asphalt 18	Material De	Diesel	Urban Unre	40	--	65	642	250	--	--	--	--	--	--	2329	
2	Cargo Apro	Cement Mi	Material De	Diesel	Urban Unre	40	--	65	642	250	--	--	--	--	--	--	37116	
2	Cargo Apro	Dump Truc	Material De	Diesel	Urban Unre	40	--	65	642	250	--	--	--	--	--	--	3299	
2	Cargo Apro	Dump Truc	Material De	Diesel	Urban Unre	40	--	65	642	250	--	--	--	--	--	--	19795	
2	Cargo Apro	Passenger	Employee (	Gasoline	Urban Unre	30	69	65	--	--	--	--	--	--	--	--	134550	
2	Parking Lot	Asphalt 18	Material De	Diesel	Urban Unre	40	--	65	1455	150	--	--	--	--	--	--	3167	
2	Parking Lot	Cement Mi	Material De	Diesel	Urban Unre	40	--	65	1455	150	--	--	--	--	--	--	50470	
2	Parking Lot	Dump Truc	Material De	Diesel	Urban Unre	40	--	65	1455	150	--	--	--	--	--	--	4486	
2	Parking Lot	Dump Truc	Material De	Diesel	Urban Unre	40	--	65	1455	150	--	--	--	--	--	--	26918	
2	Parking Lot	Passenger	Employee (	Gasoline	Urban Unre	30	77	65	--	--	--	--	--	--	--	--	150150	
3	Building - 1	Cement Mi	Material De	Diesel	Urban Unre	40	--	129	--	--	100000	--	--	--	--	--	23125	
3	Building - 1	Dump Truc	Material De	Diesel	Urban Unre	40	--	129	--	--	100000	--	--	--	--	--	12333	
3	Building - 1	Passenger	Employee (	Gasoline	Urban Unre	30	137.5	129	--	--	--	--	--	--	--	--	532125	
3	Building - 1	Tractor Tra	Material De	Diesel	Urban Unre	40	--	129	--	--	100000	--	--	--	--	0.0024	2400	
3	Cargo Apro	Asphalt 18	Material De	Diesel	Urban Unre	40	--	129	855	250	--	--	--	--	--	--	3101	
3	Cargo Apro	Cement Mi	Material De	Diesel	Urban Unre	40	--	129	855	250	--	--	--	--	--	--	49430	

ACEIT Output - Default Asphalt Application Rates

3	Cargo Apro	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	855	250	--	--	--	--	--	--	4394
3	Cargo Apro	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	855	250	--	--	--	--	--	--	26363
3	Cargo Apro	Passenger	Employee (	Gasoline	Urban Unre	30		69	129	--	--	--	--	--	--	--	--	267030
3	Drainage S	Passenger	Employee (	Gasoline	Urban Unre	30		27	129	--	--	--	--	--	--	--	--	104490
3	Fuel Tanks	Asphalt 18	Material De	Diesel	Urban Unre	40	--		129	415	100	--	--	--	--	--	--	602
3	Fuel Tanks	Cement Mi	Material De	Diesel	Urban Unre	40	--		129	415	100	--	--	--	--	--	--	9597
3	Fuel Tanks	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	415	100	--	--	--	--	--	--	853
3	Fuel Tanks	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	415	100	--	--	--	--	--	--	5118
3	Fuel Tanks	Passenger	Employee (	Gasoline	Urban Unre	30		64	129	--	--	--	--	--	--	--	--	247680
3	Parking Lot	Asphalt 18	Material De	Diesel	Urban Unre	40	--		129	2425	150	--	--	--	--	--	--	5278
3	Parking Lot	Cement Mi	Material De	Diesel	Urban Unre	40	--		129	2425	150	--	--	--	--	--	--	84117
3	Parking Lot	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	2425	150	--	--	--	--	--	--	7477
3	Parking Lot	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	2425	150	--	--	--	--	--	--	44863
3	Parking Lot	Passenger	Employee (	Gasoline	Urban Unre	30		77	129	--	--	--	--	--	--	--	--	297990
3	Taxiways	Asphalt 18	Material De	Diesel	Urban Unre	40	--		129	1205	100	--	--	--	--	--	--	1748
3	Taxiways	Cement Mi	Material De	Diesel	Urban Unre	40	--		129	1205	100	--	--	--	--	--	--	27866
3	Taxiways	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	1205	100	--	--	--	--	--	--	2477
3	Taxiways	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	1205	100	--	--	--	--	--	--	14862
3	Taxiways	Passenger	Employee (	Gasoline	Urban Unre	30		65	129	--	--	--	--	--	--	--	--	251550

Emission Factor: Non-Road (from NONROAD)

Scenario ID	Project	Constructic	Equipment	Fuel Type	Avg Rated I	Load Facto	CO (g/hp-h	NOx (g/hp-	CO2 (g/hp-	SO2 (g/hp-l	PM10 (g/h	PM2.5 (g/h	VOC Exhau	VOC Evaporative (g/equipment-day)	
1	Cargo Apro	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.74819	8.968334	61.88836	26.04661	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Cargo Apro	Clearing an	Chipper/St	Diesel	100	0.43	1.929616	3.464993	589.1723	0.003558	0.342033	0.314671	0.39496	0.077683	
1	Cargo Apro	Clearing an	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Concrete P	Air Compre	Diesel	100	0.43	1.376676	2.284886	589.6476	0.003374	0.205107	0.188698	0.238056	0.268937	
1	Cargo Apro	Concrete P	Concrete S	Diesel	40	0.59	0.678442	3.483034	595.6	0.003185	0.10015	0.092138	0.183824	0.004375	
1	Cargo Apro	Concrete P	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Concrete P	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Concrete P	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Concrete P	Rubber Tire	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Cargo Apro	Concrete P	Slip Form P	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495	
1	Cargo Apro	Concrete P	Surfacing E	Diesel	25	0.59	2.395309	4.457987	594.7242	0.004009	0.352929	0.324695	0.472896	0.005787	
1	Cargo Apro	Drainage -	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Drainage -	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098	
1	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Drainage -	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Drainage -	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Cargo Apro	Dust Contr	Water Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Excavation	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098	
1	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Cargo Apro	Excavation	Scraper	Diesel	600	0.59	0.7052	1.719861	536.3433	0.002997	0.107454	0.098858	0.160859	0.847351	
1	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Fencing	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Fencing	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Fencing	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Fencing	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Fencing	Skid Steer l	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Cargo Apro	Fencing	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Cargo Apro	Grading	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Grading	Grader	Diesel	300	0.59	0.310981	1.005164	536.3675	0.002755	0.052605	0.048397	0.15282	0.229828	
1	Cargo Apro	Grading	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Cargo Apro	Hydroseed	Hydroseed	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Hydroseed	Off-Road T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Lighting	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Lighting	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Cargo Apro	Lighting	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Lighting	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Lighting	Skid Steer l	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Cargo Apro	Lighting	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Cargo Apro	Markings	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Markings	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Markings	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Sealing/Fue	Distributing	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Sealing/Fue	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Soil Erosior	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Soil Erosior	Pumps	Diesel	11	0.43	4.464978	4.708033	588.3636	0.003966	0.447631	0.411821	0.661952	0.019081	
1	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Cargo Apro	Subbase Pl	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Subbase Pl	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Subbase Pl	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Cargo Apro	Topsoil Pla	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495	
1	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Asphalt Pla	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.395309	4.457987	594.7242	0.004009	0.352929	0.324695	0.472896	0.005787	
1	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.74819	8.968334	61.88836	26.04661	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	1.929616	3.464993	589.1723	0.003558	0.342033	0.314671	0.39496	0.077683	
1	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495	
1	Parking Lot	Curbing	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098	
1	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Drainage -	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Excavation	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098	
1	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Parking Lot	Excavation	Scraper	Diesel	600	0.59	0.7052	1.719861	536.3433	0.002997	0.107454	0.098858	0.160859	0.847351	
1	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Fencing	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Fencing	Skid Steer l	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Parking Lot	Fencing	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Parking Lot	Grading	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Grading	Grader	Diesel	300	0.59	0.310981	1.005164	536.3675	0.002755	0.052605	0.048397	0.15282	0.229828	
1	Parking Lot	Grading	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Parking Lot	Hydroseed	Hydroseed	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Hydroseed	Off-Road T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Markings	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Sidewalks	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	4.454042	4.505789	588.4782	0.003967	0.409876	0.377086	0.624107	0.007042	
1	Parking Lot	Soil Erosior	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	4.464978	4.708033	588.3636	0.003966	0.447631	0.411821	0.661952	0.019081	
1	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	

ACEIT Output - Default Asphalt Application Rates

1	Parking Lot	Street Light	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Street Light	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Parking Lot	Street Light	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Street Light	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Street Light	Skid Steer L	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Parking Lot	Street Light	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Tree Planti	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Tree Planti	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Rehabilitat	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495	
1	Rehabilitat	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Asphalt Pla	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Rehabilitat	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Asphalt Pla	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Rehabilitat	Asphalt Pla	Skid Steer L	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Rehabilitat	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.395309	4.457987	594.7242	0.004009	0.352929	0.324695	0.472896	0.005787	
1	Rehabilitat	Cold Millin	Cold Plane	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495	
1	Rehabilitat	Cold Millin	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Cold Millin	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Cold Millin	Sweepers	Diesel	175	0.43	0.343805	1.201601	530.5518	0.002842	0.081797	0.075253	0.162001	0.242332	
1	Rehabilitat	Cold Millin	Water Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Dust Contr	Water Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Rehabilitat	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Excavation	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098	
1	Rehabilitat	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Rehabilitat	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Rehabilitat	Grading	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Rehabilitat	Grading	Grader	Diesel	300	0.59	0.310981	1.005164	536.3675	0.002755	0.052605	0.048397	0.15282	0.229828	
1	Rehabilitat	Grading	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Rehabilitat	Hydroseed	Hydroseed	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Hydroseed	Off-Road T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Lighting	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Lighting	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Rehabilitat	Lighting	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Rehabilitat	Lighting	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Lighting	Skid Steer L	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Rehabilitat	Lighting	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Rehabilitat	Markings	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Markings	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Rehabilitat	Markings	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Sealing Rar	Crack Clear	Diesel	40	0.59	0.678442	3.483034	595.6	0.003185	0.10015	0.092138	0.183824	0.004375	
1	Rehabilitat	Sealing Rar	Crack Filler	Diesel	100	0.43	0.272044	0.28198	589.9443	0.002847	0.011493	0.010574	0.140158	0	
1	Rehabilitat	Sealing Rar	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Sealing Rar	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Rehabilitat	Sealing Rar	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Soil Erosior	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Rehabilitat	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Soil Erosior	Pumps	Diesel	11	0.43	4.464978	4.708033	588.3636	0.003966	0.447631	0.411821	0.661952	0.019081	
1	Rehabilitat	Soil Erosior	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Rehabilitat	Subbase Pl	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Rehabilitat	Subbase Pl	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Subbase Pl	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Rehabilitat	Topsoil Pla	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Rehabilitat	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
2	Building - 1	Concrete F	Backhoe	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Building - 1	Concrete F	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317	
2	Building - 1	Concrete F	Concrete R	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Concrete F	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848	
2	Building - 1	Concrete F	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326	
2	Building - 1	Concrete F	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Concrete F	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Constructic	Survey Cre	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Constructic	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Exterior W	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326	
2	Building - 1	Exterior W	Generator	Diesel	40	0.43	1.287109	4.156952	589.3385	0.003484	0.248591	0.228704	0.340077	0.055245	
2	Building - 1	Exterior W	Grout Mixe	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	0.999879	
2	Building - 1	Exterior W	Grout Whe	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Exterior W	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.207786	
2	Building - 1	Exterior W	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Exterior W	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Exterior W	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701	
2	Building - 1	Interior Bui	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326	
2	Building - 1	Interior Bui	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.207786	
2	Building - 1	Interior Bui	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Interior Bui	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Roofing	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326	
2	Building - 1	Roofing	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.207786	
2	Building - 1	Roofing	Material De	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Roofing	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Roofing	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701	
2	Building - 1	Security &	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326	
2	Building - 1	Security &	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Structural S	90 Ton Cra	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701	
2	Building - 1	Structural S	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317	
2	Building - 1	Structural S	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Structural S	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326	
2	Building - 1	Structural S	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Structural S	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Structural S	Trowel Ma	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	0.999879	
2	Building - 1	Structural S	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701	
2	Cargo Appro	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.04661	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	Cargo Appro	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239501	589.2407	0.003513	0.318043	0.2926	0.372367	0.071326	
2	Cargo Appro	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Concrete P	Air Compre	Diesel	100	0.43	1.240752	2.039629	589.6911	0.00331	0.181569	0.167043	0.223713	0.232417	
2	Cargo Appro	Concrete P	Concrete S	Diesel	40	0.59	0.600487	3.398114	595.6246	0.003128	0.085838	0.078971	0.175701	0.0035	
2	Cargo Appro	Concrete P	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Concrete P	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Appro	Concrete P	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Concrete P	Rubber Tire	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Cargo Appro	Concrete P	Slip Form P	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.201391	
2	Cargo Appro	Concrete P	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7254	0.004009	0.353033	0.32479	0.472476	0.004629	
2	Cargo Appro	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Appro	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848	
2	Cargo Appro	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Cargo Appro	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Appro	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Cargo Appro	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Cargo Appro	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Appro	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Drainage -	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Cargo Appro	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Appro	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Cargo Appro	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Appro	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848	
2	Cargo Appro	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Cargo Appro	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.726609	
2	Cargo Appro	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Appro	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Appro	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Fencing	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181	
2	Cargo Appro	Fencing	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Cargo Appro	Grading	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Appro	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.3751	0.002726	0.045102	0.041494	0.150319	0.188599	
2	Cargo Appro	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Cargo Appro	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Lighting	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Lighting	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Cargo Appro	Lighting	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Appro	Lighting	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Appro	Lighting	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181	

ACEIT Output - Default Asphalt Application Rates

2	Cargo Apro	Lighting	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Cargo Apro	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Apro	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Sealing/Fue	Distributing	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Sealing/Fue	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317	
2	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Cargo Apro	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Apro	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Cargo Apro	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.201391	
2	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Asphalt Pla	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Parking Lot	Asphalt Pla	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181	
2	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7254	0.004009	0.353033	0.32479	0.472476	0.004629	
2	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.04661	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239501	589.2407	0.003513	0.318043	0.2926	0.372367	0.071326	
2	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.201391	
2	Parking Lot	Curbing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848	
2	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848	
2	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Parking Lot	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.726609	
2	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Fencing	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181	
2	Parking Lot	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Parking Lot	Grading	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.3751	0.002726	0.045102	0.041494	0.150319	0.188599	
2	Parking Lot	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Parking Lot	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Sidewalks	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	4.454262	4.474392	588.4964	0.003967	0.399923	0.367929	0.618084	0.005931	
2	Parking Lot	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317	
2	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Parking Lot	Street Light	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Street Light	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Parking Lot	Street Light	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Street Light	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Street Light	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181	
2	Parking Lot	Street Light	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Tree Planti	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Tree Planti	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
3	Building - 1	Concrete F	Backhoe	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Building - 1	Concrete F	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Building - 1	Concrete F	Concrete R	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Concrete F	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Building - 1	Concrete F	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797	
3	Building - 1	Concrete F	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Concrete F	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Constructic	Survey Cre	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Constructic	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Exterior W	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797	
3	Building - 1	Exterior W	Generator	Diesel	40	0.43	1.287109	4.156952	589.3385	0.003484	0.248591	0.228704	0.340077	0.054044	
3	Building - 1	Exterior W	Grout Mixe	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	1.331361	
3	Building - 1	Exterior W	Grout Whe	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Exterior W	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.203268	
3	Building - 1	Exterior W	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Exterior W	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Exterior W	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069	
3	Building - 1	Interior Bui	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797	
3	Building - 1	Interior Bui	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.203268	
3	Building - 1	Interior Bui	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Interior Bui	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Roofing	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797	
3	Building - 1	Roofing	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.203268	
3	Building - 1	Roofing	Material De	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Roofing	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Roofing	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069	
3	Building - 1	Security &	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797	
3	Building - 1	Security &	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Structural S	90 Ton Cra	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069	
3	Building - 1	Structural S	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Building - 1	Structural S	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Structural S	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797	
3	Building - 1	Structural S	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Structural S	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Structural S	Trowel Ma	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	1.331361	
3	Building - 1	Structural S	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069	
3	Cargo Apro	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Cargo Apro	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401	
3	Cargo Apro	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Concrete P	Air Compre	Diesel	100	0.43	1.240752	2.039629	589.6911	0.00331	0.181569	0.167043	0.223713	0.227364	
3	Cargo Apro	Concrete P	Concrete S	Diesel	40	0.59	0.600487	3.398114	595.6246	0.003128	0.085838	0.078971	0.175701	0.004661	
3	Cargo Apro	Concrete P	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Concrete P	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Concrete P	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Concrete P	Rubber Tire	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Cargo Apro	Concrete P	Slip Form P	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157	
3	Cargo Apro	Concrete P	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164	
3	Cargo Apro	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	

ACEIT Output - Default Asphalt Application Rates

3	Cargo Apro	Drainage -	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Cargo Apro	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Cargo Apro	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495	
3	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Fencing	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Cargo Apro	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Cargo Apro	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124	
3	Cargo Apro	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Cargo Apro	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Lighting	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Lighting	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Cargo Apro	Lighting	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Lighting	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Lighting	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Cargo Apro	Lighting	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Cargo Apro	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Sealing/Fue	Distributing	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Sealing/Fue	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Cargo Apro	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Cargo Apro	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Drainage S	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Drainage S	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Drainage S	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Drainage S	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Drainage S	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Drainage S	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Drainage S	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Drainage S	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Drainage S	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Drainage S	Drainage St	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Drainage St	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Drainage S	Drainage St	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Drainage S	Drainage St	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Drainage S	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Drainage S	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Drainage S	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Drainage S	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Fuel Tanks	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401	
3	Fuel Tanks	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Concrete P	Air Compre	Diesel	100	0.43	1.240752	2.039629	589.6911	0.00331	0.181569	0.167043	0.223713	0.227364	
3	Fuel Tanks	Concrete P	Concrete S	Diesel	40	0.59	0.600487	3.398114	595.6246	0.003128	0.085838	0.078971	0.175701	0.004661	
3	Fuel Tanks	Concrete P	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Concrete P	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Concrete P	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Concrete P	Rubber Tire	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Fuel Tanks	Concrete P	Slip Form P	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157	
3	Fuel Tanks	Concrete P	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164	
3	Fuel Tanks	Constructic	Crane	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069	
3	Fuel Tanks	Constructic	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Constructic	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Fuel Tanks	Drainage	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Drainage	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Drainage	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Fuel Tanks	Drainage	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Drainage	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Drainage	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Fuel Tanks	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Fuel Tanks	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495	
3	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Fencing	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Fuel Tanks	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Fuel Tanks	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124	
3	Fuel Tanks	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Fuel Tanks	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Fuel Tanks	Street Light	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Street Light	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Fuel Tanks	Street Light	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Street Light	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Street Light	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Fuel Tanks	Street Light	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Fuel Tanks	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Fuel Tanks	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157	
3	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Asphalt Pla	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164	
3	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401	
3	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157	
3	Parking Lot	Curbing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	

ACEIT Output - Default Asphalt Application Rates

3	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Drainage -	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Parking Lot	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495	
3	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Fencing	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Parking Lot	Fencing	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Parking Lot	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Parking Lot	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124	
3	Parking Lot	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Parking Lot	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Hydroseed	Off-Road Ti	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Sidewalks	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	4.454262	4.474392	588.4964	0.003967	0.399923	0.367929	0.618083	0.007897	
3	Parking Lot	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Parking Lot	Soil Erosior	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Parking Lot	Street Light	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Street Light	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Parking Lot	Street Light	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Street Light	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Street Light	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Parking Lot	Street Light	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Tree Planti	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Tree Planti	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Taxiways	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157	
3	Taxiways	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Asphalt Pla	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Asphalt Pla	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Taxiways	Asphalt Pla	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Taxiways	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164	
3	Taxiways	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Taxiways	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401	
3	Taxiways	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Taxiways	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Taxiways	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Taxiways	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Taxiways	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Drainage -	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Taxiways	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Taxiways	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Taxiways	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Taxiways	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495	
3	Taxiways	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Fencing	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Taxiways	Fencing	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Taxiways	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124	
3	Taxiways	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Taxiways	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Hydroseed	Off-Road Ti	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Lighting	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Lighting	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Taxiways	Lighting	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Lighting	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Lighting	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Taxiways	Lighting	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Taxiways	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Taxiways	Soil Erosior	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Taxiways	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Taxiways	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	

Emission Factors: On-Road (from MOVES)

Scenario ID	Project Typ	Equipmen	Fuel Type	Roadway T	CO(g/mi)	NOx(g/mi)	CO2(g/mi)	SO2(g/mi)	PM10(g/mi	PM2.5(g/m	CH4(g/mi)	N2O(g/mi)	VOC(g/mi)	RV CO(g/ve	RV NOx(g/v	RV CO2(g/v	RV SO2(g/v	RV PM10(g	RV PM2.5(g	RV VOC(g/v	RP VOC(g/veh-day)
1	Cargo Apro	Asphalt 18	Diesel	Urban Unre	0.458112	1.864489	2328.796	0.015936	0.037545	0.036419	0.087838	0.072776	0.003464	26.27206	8.942973	459.7138	0.003146	0.000227	0.00022	6.657037	0
1	Cargo Apro	Cement Mi	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Cargo Apro	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Cargo Apro	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Cargo Apro	Passenger	Gasoline	Urban Unre	2.627713	0.075724	314.7649	0.004973	0.013122	0.012083	0.047792	0.004251	0.001668	139.2024	2.378925	618.3101	0.00977	0.129441	0.119191	5.333499	0.454486
1	Parking Lot	Asphalt 18	Diesel	Urban Unre	0.458112	1.864489	2328.796	0.015936	0.037545	0.036419	0.087838	0.072776	0.003464	26.27206	8.942973	459.7138	0.003146	0.000227	0.00022	6.657037	0
1	Parking Lot	Cement Mi	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Parking Lot	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Parking Lot	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Parking Lot	Passenger	Gasoline	Urban Unre	2.627713	0.075724	314.7649	0.004973	0.013122	0.012083	0.047792	0.004251	0.001668	139.2024	2.378925	618.3101	0.00977	0.129441	0.119191	5.333499	0.454486
1	Rehabilitat	Asphalt 18	Diesel	Urban Unre	0.458112	1.864489	2328.796	0.015936	0.037545	0.036419	0.087838	0.072776	0.003464	26.27206	8.942973	459.7138	0.003146	0.000227	0.00022	6.657037	0
1	Rehabilitat	Cement Mi	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Rehabilitat	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Rehabilitat	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Rehabilitat	Passenger	Gasoline	Urban Unre	2.627713	0.075724	314.7649	0.004973	0.013122	0.012083	0.047792	0.004251	0.001668	139.2024	2.378925	618.3101	0.00977	0.129441	0.119191	5.333499	0.454486
2	Building - 1	Cement Mi	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Building - 1	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Building - 1	Passenger	Gasoline	Urban Unre	2.674442	0.141116	353.9019	0.005592	0.013076	0.012041	0.060686	0.004278	0.001798	148.6489	3.430025	705.6336	0.01115	0.155753	0.143419	7.744363	0.715377
2	Building - 1	Tractor Tra	Diesel	Urban Unre	1.404516	5.278901	2328.799	0.016519	0.248141	0.240705	0.290476	0.065585	0.003463	26.30976	8.945107	456.9505	0.003422	0.041797	0.040545	6.918896	0
2	Cargo Apro	Asphalt 18	Diesel	Urban Unre	1.404516	5.278901	2328.799	0.016519	0.248141	0.240705	0.290476	0.065585	0.003463	26.30976	8.945107	456.9505	0.003422	0.041797	0.040545	6.918896	0
2	Cargo Apro	Cement Mi	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0

ACEIT Output - Default Asphalt Application Rates

2	Cargo Apro	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Cargo Apro	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Cargo Apro	Passenger	Gasoline	Urban Unre	2.674442	0.141116	353.9019	0.005592	0.013076	0.012041	0.060686	0.004278	0.001798	148.6489	3.430025	705.6336	0.01115	0.155753	0.143419	7.744363	0.715377
2	Parking Lot	Asphalt 18	Diesel	Urban Unre	1.404516	5.278901	2328.799	0.016519	0.248141	0.240705	0.290476	0.065585	0.003463	26.30976	8.945107	456.9505	0.003422	0.041797	0.040545	6.918896	0
2	Parking Lot	Cement Mi	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Parking Lot	Passenger	Gasoline	Urban Unre	2.674442	0.141116	353.9019	0.005592	0.013076	0.012041	0.060686	0.004278	0.001798	148.6489	3.430025	705.6336	0.01115	0.155753	0.143419	7.744363	0.715377
3	Building - 1	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Building - 1	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Building - 1	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Building - 1	Tractor Tra	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Cargo Apro	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Cargo Apro	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Cargo Apro	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Cargo Apro	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Cargo Apro	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Drainage S	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Fuel Tanks	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Fuel Tanks	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Fuel Tanks	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Fuel Tanks	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Fuel Tanks	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Parking Lot	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Parking Lot	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Parking Lot	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Taxiways	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Taxiways	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Taxiways	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Taxiways	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Taxiways	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0

Fugitive Emissions (Emission Factors from Various Sources including AP-42)

Scenario ID	Project	Fugitive Ty	Variable	Default Val	Units	User Value
1	Cargo Apro	Concrete M	V = Volume	4948.8	yd3	
1	Cargo Apro	Concrete M	PM10 = 0.0	183.1	lbs	
1	Cargo Apro	Material M	s = Surface	0.043	fraction	
1	Cargo Apro	Material M	Wt. = Mear	32	tons	
1	Cargo Apro	Material M	VMT = Veh	3310.9	miles	
1	Cargo Apro	Material M	PM10 = 1.5	90.7	lbs	
1	Cargo Apro	Material M	sL = Road s	0.1	g/m3	
1	Cargo Apro	Material M	Wt. = Mear	32	tons	
1	Cargo Apro	Material M	VMT = Veh	3010	miles	
1	Cargo Apro	Material M	PM10 = 0.0	27.9	lbs	
1	Cargo Apro	Unstabilize	A = Area af	2.456	acres	
1	Cargo Apro	Unstabilize	TPConv = T	0.5	fraction	
1	Cargo Apro	Unstabilize	CE = Contro	0.63	fraction	
1	Cargo Apro	Unstabilize	t = year (e.g	0.167	years	
1	Cargo Apro	Unstabilize	PM10 = 0.3	0	lbs	
1	Cargo Apro	Soil Handlin	u = Wind sp	5	mph	
1	Cargo Apro	Soil Handlin	m = Moistu	0.25	fraction	
1	Cargo Apro	Soil Handlin	T = Mass of	2942.5	tons	
1	Cargo Apro	Soil Handlin	PM10 = T x	60.6	lbs	
1	Parking Lot	Asphalt Dri	A = Area of	13517	m2	
1	Parking Lot	Asphalt Dri	AR = Applic	1.811	l/m2	
1	Parking Lot	Asphalt Dri	VD = Volum	0.35	fraction	
1	Parking Lot	Asphalt Dri	EF = Mass f	0.7	fraction	
1	Parking Lot	Asphalt Dri	D = Density	1.8	lbs/l	
1	Parking Lot	Asphalt Dri	VOC = A x A	10795.3	lbs	
1	Parking Lot	Asphalt Stc	T = Mass of	1758.5	tons	
1	Parking Lot	Asphalt Stc	PM10 = (0.0	48.2	lbs	
1	Parking Lot	Asphalt Stc	CO = (0.4 +	704.1	lbs	
1	Parking Lot	Asphalt Stc	NOx = (0.02	44	lbs	
1	Parking Lot	Asphalt Stc	SOx = (0.00	8.089	lbs	
1	Parking Lot	Asphalt Stc	VOC = (0.06	21.8	lbs	
1	Parking Lot	Material M	s = Surface	0.043	fraction	
1	Parking Lot	Material M	Wt. = Mear	32	tons	
1	Parking Lot	Material M	VMT = Veh	4347.7	miles	
1	Parking Lot	Material M	PM10 = 1.5	119.1	lbs	
1	Parking Lot	Material M	sL = Road s	0.1	g/m3	
1	Parking Lot	Material M	Wt. = Mear	32	tons	
1	Parking Lot	Material M	VMT = Veh	3870	miles	
1	Parking Lot	Material M	PM10 = 0.0	35.9	lbs	
1	Parking Lot	Soil Handlin	u = Wind sp	5	mph	
1	Parking Lot	Soil Handlin	m = Moistu	0.25	fraction	
1	Parking Lot	Soil Handlin	T = Mass of	4001.3	tons	
1	Parking Lot	Soil Handlin	PM10 = T x	82.4	lbs	
1	Parking Lot	Unstabilize	A = Area af	3.34	acres	
1	Parking Lot	Unstabilize	TPConv = T	0.5	fraction	
1	Parking Lot	Unstabilize	CE = Contro	0.63	fraction	
1	Parking Lot	Unstabilize	t = year (e.g	0.167	years	
1	Parking Lot	Unstabilize	PM10 = 0.3	0	lbs	
1	Rehabilitat	Asphalt Dri	A = Area of	85351.9	m2	
1	Rehabilitat	Asphalt Dri	AR = Applic	1.811	l/m2	
1	Rehabilitat	Asphalt Dri	VD = Volum	0.35	fraction	
1	Rehabilitat	Asphalt Dri	EF = Mass f	0.7	fraction	
1	Rehabilitat	Asphalt Dri	D = Density	1.8	lbs/l	
1	Rehabilitat	Asphalt Dri	VOC = A x A	68166.4	lbs	
1	Rehabilitat	Asphalt Stc	T = Mass of	11103.8	tons	
1	Rehabilitat	Asphalt Stc	PM10 = (0.0	304.5	lbs	
1	Rehabilitat	Asphalt Stc	CO = (0.4 +	4446	lbs	
1	Rehabilitat	Asphalt Stc	NOx = (0.02	277.6	lbs	
1	Rehabilitat	Asphalt Stc	SOx = (0.00	51.1	lbs	
1	Rehabilitat	Asphalt Stc	VOC = (0.06	137.7	lbs	
1	Rehabilitat	Material M	s = Surface	0.043	fraction	
1	Rehabilitat	Material M	Wt. = Mear	32	tons	
1	Rehabilitat	Material M	VMT = Veh	23169.2	miles	
1	Rehabilitat	Material M	PM10 = 1.5	634.6	lbs	
1	Rehabilitat	Material M	sL = Road s	0.1	g/m3	
1	Rehabilitat	Material M	Wt. = Mear	32	tons	
1	Rehabilitat	Material M	VMT = Veh	22575	miles	
1	Rehabilitat	Material M	PM10 = 0.0	209.6	lbs	
1	Rehabilitat	Unstabilize	A = Area af	21.1	acres	
1	Rehabilitat	Unstabilize	TPConv = T	0.5	fraction	
1	Rehabilitat	Unstabilize	CE = Contro	0.63	fraction	
1	Rehabilitat	Unstabilize	t = year (e.g	0.167	years	
1	Rehabilitat	Unstabilize	PM10 = 0.3	0	lbs	
1	Rehabilitat	Soil Handlin	u = Wind sp	5	mph	
1	Rehabilitat	Soil Handlin	m = Moistu	0.25	fraction	
1	Rehabilitat	Soil Handlin	T = Mass of	25265.6	tons	
1	Rehabilitat	Soil Handlin	PM10 = T x	520.1	lbs	
2	Building - 1	Concrete M	V = Volume	4625	yd3	
2	Building - 1	Concrete M	PM10 = 0.0	171.1	lbs	
2	Building - 1	Material M	sL = Road s	0.1	g/m3	
2	Building - 1	Material M	Wt. = Mear	32	tons	
2	Building - 1	Material M	VMT = Veh	2600	miles	
2	Building - 1	Material M	PM10 = 0.0	24.1	lbs	
2	Building - 1	Material M	s = Surface	0.043	fraction	
2	Building - 1	Material M	Wt. = Mear	32	tons	
2	Building - 1	Material M	VMT = Veh	2700	miles	
2	Building - 1	Material M	PM10 = 1.5	73.9	lbs	
2	Cargo Apro	Concrete M	V = Volume	7423.1	yd3	
2	Cargo Apro	Concrete M	PM10 = 0.0	274.7	lbs	
2	Cargo Apro	Material M	s = Surface	0.043	fraction	
2	Cargo Apro	Material M	Wt. = Mear	32	tons	
2	Cargo Apro	Material M	VMT = Veh	4999.4	miles	
2	Cargo Apro	Material M	PM10 = 1.5	136.9	lbs	
2	Cargo Apro	Material M	sL = Road s	0.1	g/m3	
2	Cargo Apro	Material M	Wt. = Mear	32	tons	
2	Cargo Apro	Material M	VMT = Veh	4550	miles	
2	Cargo Apro	Material M	PM10 = 0.0	42.2	lbs	
2	Cargo Apro	Unstabilize	A = Area af	3.685	acres	
2	Cargo Apro	Unstabilize	TPConv = T	0.5	fraction	
2	Cargo Apro	Unstabilize	CE = Contro	0.63	fraction	
2	Cargo Apro	Unstabilize	t = year (e.g	0.25	years	
2	Cargo Apro	Unstabilize	PM10 = 0.3	0	lbs	
2	Cargo Apro	Soil Handlin	u = Wind sp	5	mph	
2	Cargo Apro	Soil Handlin	m = Moistu	0.25	fraction	
2	Cargo Apro	Soil Handlin	T = Mass of	4413.8	tons	
2	Cargo Apro	Soil Handlin	PM10 = T x	90.9	lbs	
2	Parking Lot	Asphalt Dri	A = Area of	20275.4	m2	
2	Parking Lot	Asphalt Dri	AR = Applic	1.811	l/m2	
2	Parking Lot	Asphalt Dri	VD = Volum	0.35	fraction	
2	Parking Lot	Asphalt Dri	EF = Mass f	0.7	fraction	
2	Parking Lot	Asphalt Dri	D = Density	1.8	lbs/l	
2	Parking Lot	Asphalt Dri	VOC = A x A	16193	lbs	
2	Parking Lot	Asphalt Stc	T = Mass of	2637.7	tons	
2	Parking Lot	Asphalt Stc	PM10 = (0.0	72.3	lbs	
2	Parking Lot	Asphalt Stc	CO = (0.4 +	1056.1	lbs	
2	Parking Lot	Asphalt Stc	NOx = (0.02	65.9	lbs	

ACEIT Output - Default Asphalt Application Rates

2	Parking Lot	Asphalt Stc	SOx = (0.00	12.1	lbs
2	Parking Lot	Asphalt Stc	VOC = (0.0	32.7	lbs
2	Parking Lot	Material M	s = Surface	0.043	fraction
2	Parking Lot	Material M	Wt. = Mear	32	tons
2	Parking Lot	Material M	VMT = Veh	6565.8	miles
2	Parking Lot	Material M	PM10 = 1.5	179.8	lbs
2	Parking Lot	Material M	sL = Road s	0.1	g/m3
2	Parking Lot	Material M	Wt. = Mear	32	tons
2	Parking Lot	Material M	VMT = Veh	5850	miles
2	Parking Lot	Material M	PM10 = 0.0	54.3	lbs
2	Parking Lot	Soil Handlir	u = Wind sp	5	mph
2	Parking Lot	Soil Handlir	m = Moistu	0.25	fraction
2	Parking Lot	Soil Handlir	T = Mass of	6001.9	tons
2	Parking Lot	Soil Handlir	PM10 = T x	123.5	lbs
2	Parking Lot	Unstabilize	A = Area af	5.01	acres
2	Parking Lot	Unstabilize	TPConv = T	0.5	fraction
2	Parking Lot	Unstabilize	CE = Contro	0.63	fraction
2	Parking Lot	Unstabilize	t = year (e.g	0.25	years
2	Parking Lot	Unstabilize	PM10 = 0.3	0	lbs
3	Building - 1	Concrete M	V = Volume	4625	yd3
3	Building - 1	Concrete M	PM10 = 0.0	171.1	lbs
3	Building - 1	Material M	sL = Road s	0.1	g/m3
3	Building - 1	Material M	Wt. = Mear	32	tons
3	Building - 1	Material M	VMT = Veh	3225	miles
3	Building - 1	Material M	PM10 = 0.0	29.9	lbs
3	Building - 1	Material M	s = Surface	0.043	fraction
3	Building - 1	Material M	Wt. = Mear	32	tons
3	Building - 1	Material M	VMT = Veh	3325	miles
3	Building - 1	Material M	PM10 = 1.5	91.1	lbs
3	Cargo Apro	Concrete M	V = Volume	9885.9	yd3
3	Cargo Apro	Concrete M	PM10 = 0.0	365.8	lbs
3	Cargo Apro	Material M	s = Surface	0.043	fraction
3	Cargo Apro	Material M	Wt. = Mear	32	tons
3	Cargo Apro	Material M	VMT = Veh	7047.2	miles
3	Cargo Apro	Material M	PM10 = 1.5	193	lbs
3	Cargo Apro	Material M	sL = Road s	0.1	g/m3
3	Cargo Apro	Material M	Wt. = Mear	32	tons
3	Cargo Apro	Material M	VMT = Veh	6450	miles
3	Cargo Apro	Material M	PM10 = 0.0	59.9	lbs
3	Cargo Apro	Unstabilize	A = Area af	4.907	acres
3	Cargo Apro	Unstabilize	TPConv = T	0.5	fraction
3	Cargo Apro	Unstabilize	CE = Contro	0.63	fraction
3	Cargo Apro	Unstabilize	t = year (e.g	0.5	years
3	Cargo Apro	Unstabilize	PM10 = 0.3	0	lbs
3	Cargo Apro	Soil Handlir	u = Wind sp	5	mph
3	Cargo Apro	Soil Handlir	m = Moistu	0.25	fraction
3	Cargo Apro	Soil Handlir	T = Mass of	5878.1	tons
3	Cargo Apro	Soil Handlir	PM10 = T x	121	lbs
3	Drainage S	Material M	s = Surface	0.043	fraction
3	Drainage S	Material M	Wt. = Mear	32	tons
3	Drainage S	Material M	VMT = Veh	141.1	miles
3	Drainage S	Material M	PM10 = 1.5	3.865	lbs
3	Drainage S	Material M	sL = Road s	0.1	g/m3
3	Drainage S	Material M	Wt. = Mear	32	tons
3	Drainage S	Material M	VMT = Veh	0	miles
3	Drainage S	Material M	PM10 = 0.0	0	lbs
3	Drainage S	Unstabilize	A = Area af	0.275	acres
3	Drainage S	Unstabilize	TPConv = T	0.5	fraction
3	Drainage S	Unstabilize	CE = Contro	0.63	fraction
3	Drainage S	Unstabilize	t = year (e.g	0.5	years
3	Drainage S	Unstabilize	PM10 = 0.3	0	lbs
3	Drainage S	Soil Handlir	u = Wind sp	5	mph
3	Drainage S	Soil Handlir	m = Moistu	0.25	fraction
3	Drainage S	Soil Handlir	T = Mass of	330	tons
3	Drainage S	Soil Handlir	PM10 = T x	6.793	lbs
3	Fuel Tanks	Concrete M	V = Volume	1919.4	yd3
3	Fuel Tanks	Concrete M	PM10 = 0.0	71	lbs
3	Fuel Tanks	Material M	s = Surface	0.043	fraction
3	Fuel Tanks	Material M	Wt. = Mear	32	tons
3	Fuel Tanks	Material M	VMT = Veh	2869.3	miles
3	Fuel Tanks	Material M	PM10 = 1.5	78.6	lbs
3	Fuel Tanks	Material M	sL = Road s	0.1	g/m3
3	Fuel Tanks	Material M	Wt. = Mear	32	tons
3	Fuel Tanks	Material M	VMT = Veh	2580	miles
3	Fuel Tanks	Material M	PM10 = 0.0	23.9	lbs
3	Fuel Tanks	Unstabilize	A = Area af	0.953	acres
3	Fuel Tanks	Unstabilize	TPConv = T	0.5	fraction
3	Fuel Tanks	Unstabilize	CE = Contro	0.63	fraction
3	Fuel Tanks	Unstabilize	t = year (e.g	0.5	years
3	Fuel Tanks	Unstabilize	PM10 = 0.3	0	lbs
3	Fuel Tanks	Soil Handlir	u = Wind sp	5	mph
3	Fuel Tanks	Soil Handlir	m = Moistu	0.25	fraction
3	Fuel Tanks	Soil Handlir	T = Mass of	1141.3	tons
3	Fuel Tanks	Soil Handlir	PM10 = T x	23.5	lbs
3	Parking Lot	Asphalt Dr	A = Area of	33792.4	m2
3	Parking Lot	Asphalt Dr	AR = Applic	1.811	l/m2
3	Parking Lot	Asphalt Dr	VD = Volum	0.35	fraction
3	Parking Lot	Asphalt Dr	EF = Mass f	0.7	fraction
3	Parking Lot	Asphalt Dr	D = Density	1.8	lbs/l
3	Parking Lot	Asphalt Dr	VOC = A x A	26988.3	lbs
3	Parking Lot	Asphalt Stc	T = Mass of	4396.2	tons
3	Parking Lot	Asphalt Stc	PM10 = (0.4	120.5	lbs
3	Parking Lot	Asphalt Stc	CO = (0.4 +	1760.2	lbs
3	Parking Lot	Asphalt Stc	NOx = (0.02	109.9	lbs
3	Parking Lot	Asphalt Stc	SOx = (0.00	20.2	lbs
3	Parking Lot	Asphalt Stc	VOC = (0.0	54.5	lbs
3	Parking Lot	Material M	s = Surface	0.043	fraction
3	Parking Lot	Material M	Wt. = Mear	32	tons
3	Parking Lot	Material M	VMT = Veh	11511.7	miles
3	Parking Lot	Material M	PM10 = 1.5	315.3	lbs
3	Parking Lot	Material M	sL = Road s	0.1	g/m3
3	Parking Lot	Material M	Wt. = Mear	32	tons
3	Parking Lot	Material M	VMT = Veh	10320	miles
3	Parking Lot	Material M	PM10 = 0.0	95.8	lbs
3	Parking Lot	Soil Handlir	u = Wind sp	5	mph
3	Parking Lot	Soil Handlir	m = Moistu	0.25	fraction
3	Parking Lot	Soil Handlir	T = Mass of	10003.1	tons
3	Parking Lot	Soil Handlir	PM10 = T x	205.9	lbs
3	Parking Lot	Unstabilize	A = Area af	8.351	acres
3	Parking Lot	Unstabilize	TPConv = T	0.5	fraction
3	Parking Lot	Unstabilize	CE = Contro	0.63	fraction
3	Parking Lot	Unstabilize	t = year (e.g	0.5	years
3	Parking Lot	Unstabilize	PM10 = 0.3	0	lbs
3	Taxiways	Asphalt Dr	A = Area of	11194.5	m2
3	Taxiways	Asphalt Dr	AR = Applic	1.811	l/m2
3	Taxiways	Asphalt Dr	VD = Volum	0.35	fraction
3	Taxiways	Asphalt Dr	EF = Mass f	0.7	fraction
3	Taxiways	Asphalt Dr	D = Density	1.8	lbs/l
3	Taxiways	Asphalt Dr	VOC = A x A	8940.5	lbs
3	Taxiways	Asphalt Stc	T = Mass of	1456.3	tons
3	Taxiways	Asphalt Stc	PM10 = (0.4	39.9	lbs
3	Taxiways	Asphalt Stc	CO = (0.4 +	583.1	lbs
3	Taxiways	Asphalt Stc	NOx = (0.02	36.4	lbs
3	Taxiways	Asphalt Stc	SOx = (0.00	6.699	lbs
3	Taxiways	Asphalt Stc	VOC = (0.0	18.1	lbs
3	Taxiways	Material M	s = Surface	0.043	fraction
3	Taxiways	Material M	Wt. = Mear	32	tons
3	Taxiways	Material M	VMT = Veh	4936.6	miles
3	Taxiways	Material M	PM10 = 1.5	135.2	lbs
3	Taxiways	Material M	sL = Road s	0.1	g/m3
3	Taxiways	Material M	Wt. = Mear	32	tons
3	Taxiways	Material M	VMT = Veh	4515	miles
3	Taxiways	Material M	PM10 = 0.0	41.9	lbs
3	Taxiways	Unstabilize	A = Area af	2.766	acres
3	Taxiways	Unstabilize	TPConv = T	0.5	fraction
3	Taxiways	Unstabilize	CE = Contro	0.63	fraction
3	Taxiways	Unstabilize	t = year (e.g	0.5	years
3	Taxiways	Unstabilize	PM10 = 0.3	0	lbs
3	Taxiways	Soil Handlir	u = Wind sp	5	mph
3	Taxiways	Soil Handlir	m = Moistu	0.25	fraction
3	Taxiways	Soil Handlir	T = Mass of	3313.8	tons
3	Taxiways	Soil Handlir	PM10 = T x	68.2	lbs

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ASSUMPTIONS

Emission factors were developed from the following models:

On-Road Vehicles: MOVES 2010b, revised January 2013

Non-Road Equipment: NONROAD2008a, July 2009

ACEIT Output - Default Asphalt Application Rates

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:

- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO_2, CH_4, and N_2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:

- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)
- Excavator
- Excavator for U/G Services/Tanks
- Flat Bed or Dump Trucks
- Flatbed Truck
- Grader
- Grout Wheel Truck
- Hoist Equipment with 40 Ton Rig
- Hydralic Hammer
- Hydroseeder
- Line Painting Truck and Sprayer
- Material Deliveries
- Off-Road Truck
- Pickup Truck
- Scraper
- Seed Truck Spreader
- Small Dozer
- Survey Crew Trucks
- Ten Wheelers
- Ten Wheelers- Material Delivery
- Tool Truck
- Tractor Trailer- Equipment Delivery
- Tractor Trailer- Material Delivery
- Tractor Trailer- Steel Deliveries
- Tractor Trailer- Stone Delivery
- Tractor Trailer- Topsoil & Seed
- Tractor Trailer- Truck Delivery
- Tractor Trailer with Boom Hoist- Curbs Del & Place
- Tractor Trailer with Boom Hoist- Delivery
- Tractor Trailers- Rebar Deliveries
- Tractor Trailers Temp Fac.
- Truck for Topsoil & Seed Del&Spread
- Water Truck
- Excavator with Bucket
- Excavator with Hoe Ram

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ACEIT Output - Default Asphalt Application Rates

VOC	CO2	CH4	N2O
0.000321	3.636388	0.000136	0.000113
0.00086	31.06417	0.001631	0.001763
0.000104	2.76624	0.000145	0.000157
0.000433	16.56267	0.00087	0.00094
0.019094	29.85175	0.004254	0.000378
0.000324	4.935856	0.000185	0.000154
0.001086	42.22427	0.002218	0.002398
0.000107	3.755603	0.000197	0.000213
0.000643	22.53237	0.001183	0.001279
0.021307	33.31282	0.004747	0.000422
0.001313	31.12425	0.001171	0.00097
0.006745	266.5994	0.014003	0.01514
0.000646	23.70661	0.001245	0.001346
0.003591	142.1856	0.007468	0.008075
0.013559	21.19907	0.003021	0.000269
0.001065	29.03264	0.005088	0.001601
0.000633	15.49333	0.002713	0.000854
0.083876	101.1965	0.016271	0.001147
0.000505	5.618819	0.000697	0.000157
0.000505	5.453474	0.000677	0.000153
0.001704	46.59713	0.008166	0.002569
0.000208	4.150096	0.000726	0.000228
0.000857	24.84382	0.004355	0.00137
0.042091	50.78227	0.008165	0.000576
0.000508	7.405007	0.00092	0.000208
0.002145	63.33689	0.011104	0.003493
0.000212	5.63289	0.000987	0.00031
0.001274	33.79984	0.005922	0.001863
0.046971	56.67007	0.009112	0.000642
0.000356	31.94567	0.00512	0.001601
0.000225	17.05173	0.002731	0.000854
0.112505	210.7102	0.033799	0.002411
0.000832	6.063979	0.000704	0.000157
0.000834	7.824057	0.000909	0.000203
0.000634	68.23309	0.010944	0.003421
0.000106	6.085607	0.000973	0.000304
0.000368	36.40352	0.005837	0.001825
0.056457	105.7382	0.016961	0.00121
0.022092	41.37582	0.006637	0.000473
0.000825	1.549541	0.000176	3.95E-05
0.000126	13.24874	0.002125	0.000664
9.24E-05	1.210599	0.000189	5.90E-05
0.000109	7.082361	0.001133	0.000354
0.052366	98.07601	0.015732	0.001122
0.000843	13.29009	0.001547	0.000346
0.001123	116.1328	0.018624	0.005822
0.000118	10.33007	0.001655	0.000518
0.000617	61.94556	0.009933	0.003105
0.063003	117.9977	0.018927	0.00135
0.000829	4.42693	0.000512	0.000115
0.000374	38.47275	0.00617	0.001929
9.86E-05	3.446412	0.000548	0.000171
0.000235	20.53348	0.003291	0.001029
0.053184	99.60845	0.015977	0.00114

ACEIT Modified

Asphalt Application Rates

ACEIT Input - Modified Asphalt Application Rates

Airport Constrcution Emission Inventory Tool (ACEIT)
Version 1.0

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Setup
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Study Name
BWI Midfield Improvements

Study Description

State/County
Maryland
Anne Arundel County

Scenarios

Scenario ID	Year	Number of Season		Average Da	Max Daily T	Min Daily Temp Change (degF)
1	2018	2	Winter	30 < T <= 5	0 <= Chang	0 <= Change in T < 10
2	2019	3	Winter	30 < T <= 5	0 <= Chang	0 <= Change in T < 10
3	2019	6	Summer	50 < T <= 8	10 <= Chan	10 <= Change in T < 20
4						

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Project
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Scenario ID
1
2
3

Selected Project

1	Cargo Aprc	SetSelected	
1	Parking Lot	SetSelected	
1	Rehabilitat	SetSelected	
2	Building - 1	SetSelected	
2	Cargo Aprc	SetSelected	
2	Parking Lot	SetSelected	
3	Taxiways	SetSelected	

Selected Construction Activities

1	Cargo Aprc	Clearing an	SetSelected
1	Cargo Aprc	Concrete P	SetSelected
1	Cargo Aprc	Drainage -	SetSelected
1	Cargo Aprc	Drainage -	SetSelected
1	Cargo Aprc	Dust Contr	SetSelected
1	Cargo Aprc	Excavation	SetSelected
1	Cargo Aprc	Excavation	SetSelected
1	Cargo Aprc	Excavation	SetSelected
1	Cargo Aprc	Fencing	SetSelected
1	Cargo Aprc	Grading	SetSelected
1	Cargo Aprc	Hydroseed	SetSelected
1	Cargo Aprc	Lighting	SetSelected
1	Cargo Aprc	Markings	SetSelected
1	Cargo Aprc	Sealing/Fu	SetSelected
1	Cargo Aprc	Soil Erosior	SetSelected
1	Cargo Aprc	Subbase Pl	SetSelected
1	Cargo Aprc	Topsoil Pla	SetSelected
1	Parking Lot	Asphalt Pla	SetSelected
1	Parking Lot	Clearing an	SetSelected
1	Parking Lot	Curbing	SetSelected
1	Parking Lot	Drainage -	SetSelected
1	Parking Lot	Drainage -	SetSelected
1	Parking Lot	Excavation	SetSelected
1	Parking Lot	Excavation	SetSelected
1	Parking Lot	Excavation	SetSelected
1	Parking Lot	Fencing	SetSelected
1	Parking Lot	Grading	SetSelected
1	Parking Lot	Hydroseed	SetSelected
1	Parking Lot	Markings	SetSelected
1	Parking Lot	Sidewalks	SetSelected
1	Parking Lot	Soil Erosior	SetSelected
1	Parking Lot	Street Ligh	SetSelected
1	Parking Lot	Subbase Pl	SetSelected
1	Parking Lot	Topsoil Pla	SetSelected
1	Parking Lot	Tree Planti	SetSelected
1	Rehabilitat	Asphalt Pla	SetSelected
1	Rehabilitat	Cold Millin	SetSelected
1	Rehabilitat	Dust Contr	SetSelected
1	Rehabilitat	Excavation	SetSelected
1	Rehabilitat	Excavation	SetSelected
1	Rehabilitat	Grading	SetSelected
1	Rehabilitat	Hydroseed	SetSelected
1	Rehabilitat	Lighting	SetSelected
1	Rehabilitat	Markings	SetSelected
1	Rehabilitat	Sealing Rar	SetSelected
1	Rehabilitat	Soil Erosior	SetSelected
1	Rehabilitat	Subbase Pl	SetSelected
1	Rehabilitat	Topsoil Pla	SetSelected
2	Building - 1	Concrete F	SetSelected
2	Building - 1	Constructic	SetSelected
2	Building - 1	Exterior W	SetSelected
2	Building - 1	Interior Bu	SetSelected
2	Building - 1	Roofing	SetSelected
2	Building - 1	Security &	SetSelected
2	Building - 1	Structural S	SetSelected
2	Cargo Aprc	Clearing an	SetSelected
2	Cargo Aprc	Concrete P	SetSelected
2	Cargo Aprc	Drainage -	SetSelected
2	Cargo Aprc	Drainage -	SetSelected
2	Cargo Aprc	Dust Contr	SetSelected
2	Cargo Aprc	Excavation	SetSelected
2	Cargo Aprc	Excavation	SetSelected
2	Cargo Aprc	Excavation	SetSelected
2	Cargo Aprc	Fencing	SetSelected
2	Cargo Aprc	Grading	SetSelected
2	Cargo Aprc	Hydroseed	SetSelected
2	Cargo Aprc	Lighting	SetSelected
2	Cargo Aprc	Markings	SetSelected
2	Cargo Aprc	Sealing/Fu	SetSelected
2	Cargo Aprc	Soil Erosior	SetSelected
2	Cargo Aprc	Subbase Pl	SetSelected
2	Cargo Aprc	Topsoil Pla	SetSelected
2	Parking Lot	Asphalt Pla	SetSelected
2	Parking Lot	Clearing an	SetSelected
2	Parking Lot	Curbing	SetSelected
2	Parking Lot	Drainage -	SetSelected
2	Parking Lot	Drainage -	SetSelected
2	Parking Lot	Excavation	SetSelected
2	Parking Lot	Excavation	SetSelected
2	Parking Lot	Excavation	SetSelected
2	Parking Lot	Fencing	SetSelected
2	Parking Lot	Grading	SetSelected
2	Parking Lot	Hydroseed	SetSelected
2	Parking Lot	Markings	SetSelected
2	Parking Lot	Sidewalks	SetSelected
2	Parking Lot	Soil Erosior	SetSelected
2	Parking Lot	Street Ligh	SetSelected
2	Parking Lot	Subbase Pl	SetSelected
2	Parking Lot	Topsoil Pla	SetSelected
2	Parking Lot	Tree Planti	SetSelected
3	Building - 1	Concrete F	SetSelected
3	Building - 1	Constructic	SetSelected
3	Building - 1	Exterior W	SetSelected
3	Building - 1	Interior Bu	SetSelected
3	Building - 1	Roofing	SetSelected
3	Building - 1	Security &	SetSelected
3	Building - 1	Structural S	SetSelected
3	Cargo Aprc	Clearing an	SetSelected
3	Cargo Aprc	Concrete P	SetSelected
3	Cargo Aprc	Drainage -	SetSelected
3	Cargo Aprc	Drainage -	SetSelected
3	Cargo Aprc	Dust Contr	SetSelected
3	Cargo Aprc	Excavation	SetSelected
3	Cargo Aprc	Excavation	SetSelected
3	Cargo Aprc	Excavation	SetSelected
3	Cargo Aprc	Fencing	SetSelected
3	Cargo Aprc	Grading	SetSelected
3	Cargo Aprc	Hydroseed	SetSelected
3	Cargo Aprc	Lighting	SetSelected
3	Cargo Aprc	Markings	SetSelected
3	Cargo Aprc	Sealing/Fu	SetSelected
3	Cargo Aprc	Soil Erosior	SetSelected
3	Cargo Aprc	Subbase Pl	SetSelected
3	Cargo Aprc	Topsoil Pla	SetSelected
3	Drainage S	Drainage -	SetSelected
3	Drainage S	Drainage -	SetSelected
3	Drainage S	Drainage S	SetSelected
3	Drainage S	Hydroseed	SetSelected
3	Drainage S	Soil Erosior	SetSelected
3	Drainage S	Topsoil Pla	SetSelected
3	Fuel Tanks	Clearing an	SetSelected
3	Fuel Tanks	Concrete P	SetSelected
3	Fuel Tanks	Constructic	SetSelected
3	Fuel Tanks	Drainage -	SetSelected
3	Fuel Tanks	Drainage	SetSelected
3	Fuel Tanks	Dust Contr	SetSelected
3	Fuel Tanks	Excavation	SetSelected
3	Fuel Tanks	Excavation	SetSelected

ACEIT Input - Modified Asphalt Application Rates

3	Fuel Tanks	Excavation	SetSelected
3	Fuel Tanks	Fencing	SetSelected
3	Fuel Tanks	Grading	SetSelected
3	Fuel Tanks	Hydroseed	SetSelected
3	Fuel Tanks	Markings	SetSelected
3	Fuel Tanks	Soil Erosior	SetSelected
3	Fuel Tanks	Street Ligh	SetSelected
3	Fuel Tanks	Subbase Pl	SetSelected
3	Fuel Tanks	Topsoil Pla	SetSelected
3	Parking Lot	Asphalt Pla	SetSelected
3	Parking Lot	Clearing an	SetSelected
3	Parking Lot	Curbing	SetSelected
3	Parking Lot	Drainage -	SetSelected
3	Parking Lot	Drainage -	SetSelected
3	Parking Lot	Excavation	SetSelected
3	Parking Lot	Excavation	SetSelected
3	Parking Lot	Excavation	SetSelected
3	Parking Lot	Fencing	SetSelected
3	Parking Lot	Grading	SetSelected
3	Parking Lot	Hydroseed	SetSelected
3	Parking Lot	Markings	SetSelected
3	Parking Lot	Sidewalks	SetSelected
3	Parking Lot	Soil Erosior	SetSelected
3	Parking Lot	Street Ligh	SetSelected
3	Parking Lot	Subbase Pl	SetSelected
3	Parking Lot	Topsoil Pla	SetSelected
3	Parking Lot	Tree Planti	SetSelected
3	Taxiways	Asphalt Pla	SetSelected
3	Taxiways	Clearing an	SetSelected
3	Taxiways	Drainage -	SetSelected
3	Taxiways	Drainage -	SetSelected
3	Taxiways	Dust Contr	SetSelected
3	Taxiways	Excavation	SetSelected
3	Taxiways	Excavation	SetSelected
3	Taxiways	Excavation	SetSelected
3	Taxiways	Fencing	SetSelected
3	Taxiways	Grading	SetSelected
3	Taxiways	Hydroseed	SetSelected
3	Taxiways	Lighting	SetSelected
3	Taxiways	Markings	SetSelected
3	Taxiways	Soil Erosior	SetSelected
3	Taxiways	Subbase Pl	SetSelected
3	Taxiways	Topsoil Pla	SetSelected

Selected Fuel Types

1	Diesel
2	Diesel
3	Diesel

Selected Equipment

1	Cargo Aprc	Clearing an	Chain Saw	SetSelected
1	Cargo Aprc	Clearing an	Chipper/St	SetSelected
1	Cargo Aprc	Clearing an	Pickup Truc	SetSelected
1	Cargo Aprc	Concrete P	Air Compre	SetSelected
1	Cargo Aprc	Concrete P	Concrete S	SetSelected
1	Cargo Aprc	Concrete P	Concrete T	SetSelected
1	Cargo Aprc	Concrete P	Other Gene	SetSelected
1	Cargo Aprc	Concrete P	Pickup Truc	SetSelected
1	Cargo Aprc	Concrete P	Rubber Tire	SetSelected
1	Cargo Aprc	Concrete P	Slip Form P	SetSelected
1	Cargo Aprc	Concrete P	Surfacing E	SetSelected
1	Cargo Aprc	Drainage -	Dozer	SetSelected
1	Cargo Aprc	Drainage -	Dump Truc	SetSelected
1	Cargo Aprc	Drainage -	Excavator	SetSelected
1	Cargo Aprc	Drainage -	Loader	SetSelected
1	Cargo Aprc	Drainage -	Other Gene	SetSelected
1	Cargo Aprc	Drainage -	Pickup Truc	SetSelected
1	Cargo Aprc	Drainage -	Roller	SetSelected
1	Cargo Aprc	Drainage -	Dump Truc	SetSelected
1	Cargo Aprc	Drainage -	Loader	SetSelected
1	Cargo Aprc	Drainage -	Other Gene	SetSelected
1	Cargo Aprc	Drainage -	Pickup Truc	SetSelected
1	Cargo Aprc	Drainage -	Tractors/Lc	SetSelected
1	Cargo Aprc	Dust Contr	Water Truc	SetSelected
1	Cargo Aprc	Excavation	Dozer	SetSelected
1	Cargo Aprc	Excavation	Dump Truc	SetSelected
1	Cargo Aprc	Excavation	Pickup Truc	SetSelected
1	Cargo Aprc	Excavation	Roller	SetSelected
1	Cargo Aprc	Excavation	Dozer	SetSelected
1	Cargo Aprc	Excavation	Dump Truc	SetSelected
1	Cargo Aprc	Excavation	Excavator	SetSelected
1	Cargo Aprc	Excavation	Pickup Truc	SetSelected
1	Cargo Aprc	Excavation	Roller	SetSelected
1	Cargo Aprc	Excavation	Scraper	SetSelected
1	Cargo Aprc	Excavation	Dozer	SetSelected
1	Cargo Aprc	Fencing	Concrete T	SetSelected
1	Cargo Aprc	Fencing	Dump Truc	SetSelected
1	Cargo Aprc	Fencing	Other Gene	SetSelected
1	Cargo Aprc	Fencing	Pickup Truc	SetSelected
1	Cargo Aprc	Fencing	Skid Steer I	SetSelected
1	Cargo Aprc	Fencing	Tractors/Lc	SetSelected
1	Cargo Aprc	Grading	Dozer	SetSelected
1	Cargo Aprc	Grading	Grader	SetSelected
1	Cargo Aprc	Grading	Roller	SetSelected
1	Cargo Aprc	Hydroseed	Hydroseed	SetSelected
1	Cargo Aprc	Hydroseed	Off-Road T	SetSelected
1	Cargo Aprc	Lighting	Dump Truc	SetSelected
1	Cargo Aprc	Lighting	Loader	SetSelected
1	Cargo Aprc	Lighting	Other Gene	SetSelected
1	Cargo Aprc	Lighting	Pickup Truc	SetSelected
1	Cargo Aprc	Lighting	Skid Steer I	SetSelected
1	Cargo Aprc	Lighting	Tractors/Lc	SetSelected
1	Cargo Aprc	Markings	Flatbed Tru	SetSelected
1	Cargo Aprc	Markings	Other Gene	SetSelected
1	Cargo Aprc	Markings	Pickup Truc	SetSelected
1	Cargo Aprc	Sealing/Fu	Distributing	SetSelected
1	Cargo Aprc	Sealing/Fu	Other Gene	SetSelected
1	Cargo Aprc	Sealing/Fu	Pickup Truc	SetSelected
1	Cargo Aprc	Soil Erosior	Other Gene	SetSelected
1	Cargo Aprc	Soil Erosior	Pickup Truc	SetSelected
1	Cargo Aprc	Soil Erosior	Pumps	SetSelected
1	Cargo Aprc	Soil Erosior	Tractors/Lc	SetSelected
1	Cargo Aprc	Subbase Pl	Dozer	SetSelected
1	Cargo Aprc	Subbase Pl	Dump Truc	SetSelected
1	Cargo Aprc	Subbase Pl	Pickup Truc	SetSelected
1	Cargo Aprc	Subbase Pl	Roller	SetSelected
1	Cargo Aprc	Topsoil Pla	Dozer	SetSelected
1	Cargo Aprc	Topsoil Pla	Dump Truc	SetSelected
1	Cargo Aprc	Topsoil Pla	Pickup Truc	SetSelected
1	Parking Lot	Asphalt Pla	Asphalt Pa	SetSelected
1	Parking Lot	Asphalt Pla	Dump Truc	SetSelected
1	Parking Lot	Asphalt Pla	Other Gene	SetSelected
1	Parking Lot	Asphalt Pla	Pickup Truc	SetSelected
1	Parking Lot	Asphalt Pla	Roller	SetSelected
1	Parking Lot	Asphalt Pla	Skid Steer I	SetSelected
1	Parking Lot	Asphalt Pla	Surfacing E	SetSelected
1	Parking Lot	Clearing an	Chain Saw	SetSelected
1	Parking Lot	Clearing an	Chipper/St	SetSelected
1	Parking Lot	Clearing an	Pickup Truc	SetSelected
1	Parking Lot	Curbing	Concrete T	SetSelected
1	Parking Lot	Curbing	Curb/Gutte	SetSelected
1	Parking Lot	Curbing	Other Gene	SetSelected
1	Parking Lot	Curbing	Pickup Truc	SetSelected
1	Parking Lot	Drainage -	Dozer	SetSelected
1	Parking Lot	Drainage -	Dump Truc	SetSelected
1	Parking Lot	Drainage -	Excavator	SetSelected
1	Parking Lot	Drainage -	Loader	SetSelected
1	Parking Lot	Drainage -	Other Gene	SetSelected
1	Parking Lot	Drainage -	Pickup Truc	SetSelected
1	Parking Lot	Drainage -	Roller	SetSelected
1	Parking Lot	Drainage -	Dump Truc	SetSelected
1	Parking Lot	Drainage -	Loader	SetSelected
1	Parking Lot	Drainage -	Other Gene	SetSelected
1	Parking Lot	Drainage -	Pickup Truc	SetSelected
1	Parking Lot	Drainage -	Tractors/Lc	SetSelected
1	Parking Lot	Excavation	Dozer	SetSelected
1	Parking Lot	Excavation	Dump Truc	SetSelected
1	Parking Lot	Excavation	Pickup Truc	SetSelected
1	Parking Lot	Excavation	Roller	SetSelected
1	Parking Lot	Excavation	Dozer	SetSelected
1	Parking Lot	Excavation	Dump Truc	SetSelected
1	Parking Lot	Excavation	Excavator	SetSelected
1	Parking Lot	Excavation	Pickup Truc	SetSelected
1	Parking Lot	Excavation	Roller	SetSelected
1	Parking Lot	Excavation	Scraper	SetSelected
1	Parking Lot	Excavation	Dozer	SetSelected
1	Parking Lot	Fencing	Concrete T	SetSelected
1	Parking Lot	Fencing	Dump Truc	SetSelected
1	Parking Lot	Fencing	Other Gene	SetSelected
1	Parking Lot	Fencing	Pickup Truc	SetSelected
1	Parking Lot	Fencing	Skid Steer I	SetSelected
1	Parking Lot	Fencing	Tractors/Lc	SetSelected
1	Parking Lot	Grading	Dozer	SetSelected
1	Parking Lot	Grading	Grader	SetSelected
1	Parking Lot	Grading	Roller	SetSelected
1	Parking Lot	Hydroseed	Hydroseed	SetSelected
1	Parking Lot	Hydroseed	Off-Road T	SetSelected
1	Parking Lot	Markings	Flatbed Tru	SetSelected
1	Parking Lot	Markings	Other Gene	SetSelected
1	Parking Lot	Markings	Pickup Truc	SetSelected
1	Parking Lot	Sidewalks	Concrete T	SetSelected
1	Parking Lot	Sidewalks	Dump Truc	SetSelected

ACEIT Input - Modified Asphalt Application Rates

1	Parking Lot	Sidewalks	Pickup Truc	SetSelected
1	Parking Lot	Sidewalks	Tractors/Lc	SetSelected
1	Parking Lot	Sidewalks	Vibratory C	SetSelected
1	Parking Lot	Soil Erosior	Other Gene	SetSelected
1	Parking Lot	Soil Erosior	Pickup Truc	SetSelected
1	Parking Lot	Soil Erosior	Pumps	SetSelected
1	Parking Lot	Soil Erosior	Tractors/Lc	SetSelected
1	Parking Lot	Street Ligh	Dump Truc	SetSelected
1	Parking Lot	Street Ligh	Loader	SetSelected
1	Parking Lot	Street Ligh	Other Gene	SetSelected
1	Parking Lot	Street Ligh	Pickup Truc	SetSelected
1	Parking Lot	Street Ligh	Skid Steer I	SetSelected
1	Parking Lot	Street Ligh	Tractors/Lc	SetSelected
1	Parking Lot	Subbase Pl	Dozer	SetSelected
1	Parking Lot	Subbase Pl	Dump Truc	SetSelected
1	Parking Lot	Subbase Pl	Pickup Truc	SetSelected
1	Parking Lot	Subbase Pl	Roller	SetSelected
1	Parking Lot	Topsoil Pla	Dozer	SetSelected
1	Parking Lot	Topsoil Pla	Dump Truc	SetSelected
1	Parking Lot	Topsoil Pla	Pickup Truc	SetSelected
1	Parking Lot	Tree Planti	Flatbed Tru	SetSelected
1	Parking Lot	Tree Planti	Other Gene	SetSelected
1	Parking Lot	Tree Planti	Pickup Truc	SetSelected
1	Parking Lot	Tree Planti	Tractors/Lc	SetSelected
1	Rehabilitat	Asphalt Pla	Asphalt Pa	SetSelected
1	Rehabilitat	Asphalt Pla	Dump Truc	SetSelected
1	Rehabilitat	Asphalt Pla	Other Gene	SetSelected
1	Rehabilitat	Asphalt Pla	Pickup Truc	SetSelected
1	Rehabilitat	Asphalt Pla	Roller	SetSelected
1	Rehabilitat	Asphalt Pla	Skid Steer I	SetSelected
1	Rehabilitat	Asphalt Pla	Surfacing E	SetSelected
1	Rehabilitat	Cold Millin	Cold Planer	SetSelected
1	Rehabilitat	Cold Millin	Dump Truc	SetSelected
1	Rehabilitat	Cold Millin	Pickup Truc	SetSelected
1	Rehabilitat	Cold Millin	Sweepers	SetSelected
1	Rehabilitat	Cold Millin	Water Truc	SetSelected
1	Rehabilitat	Dust Contr	Water Truc	SetSelected
1	Rehabilitat	Excavation	Dozer	SetSelected
1	Rehabilitat	Excavation	Dump Truc	SetSelected
1	Rehabilitat	Excavation	Excavator	SetSelected
1	Rehabilitat	Excavation	Pickup Truc	SetSelected
1	Rehabilitat	Excavation	Roller	SetSelected
1	Rehabilitat	Excavation	Dozer	SetSelected
1	Rehabilitat	Grading	Dozer	SetSelected
1	Rehabilitat	Grading	Grader	SetSelected
1	Rehabilitat	Grading	Roller	SetSelected
1	Rehabilitat	Hydroseed	Hydroseed	SetSelected
1	Rehabilitat	Hydroseed	Off-Road T	SetSelected
1	Rehabilitat	Lighting	Dump Truc	SetSelected
1	Rehabilitat	Lighting	Loader	SetSelected
1	Rehabilitat	Lighting	Other Gene	SetSelected
1	Rehabilitat	Lighting	Pickup Truc	SetSelected
1	Rehabilitat	Lighting	Skid Steer I	SetSelected
1	Rehabilitat	Lighting	Tractors/Lc	SetSelected
1	Rehabilitat	Markings	Flatbed Tru	SetSelected
1	Rehabilitat	Markings	Other Gene	SetSelected
1	Rehabilitat	Markings	Pickup Truc	SetSelected
1	Rehabilitat	Sealing Rar	Crack Clear	SetSelected
1	Rehabilitat	Sealing Rar	Crack Filler	SetSelected
1	Rehabilitat	Sealing Rar	Flatbed Tru	SetSelected
1	Rehabilitat	Sealing Rar	Other Gene	SetSelected
1	Rehabilitat	Sealing Rar	Pickup Truc	SetSelected
1	Rehabilitat	Soil Erosior	Other Gene	SetSelected
1	Rehabilitat	Soil Erosior	Pickup Truc	SetSelected
1	Rehabilitat	Soil Erosior	Pumps	SetSelected
1	Rehabilitat	Soil Erosior	Tractors/Lc	SetSelected
1	Rehabilitat	Subbase Pl	Dozer	SetSelected
1	Rehabilitat	Subbase Pl	Dump Truc	SetSelected
1	Rehabilitat	Subbase Pl	Pickup Truc	SetSelected
1	Rehabilitat	Subbase Pl	Roller	SetSelected
1	Rehabilitat	Topsoil Pla	Dozer	SetSelected
1	Rehabilitat	Topsoil Pla	Dump Truc	SetSelected
1	Rehabilitat	Topsoil Pla	Pickup Truc	SetSelected
2	Building - 1	Concrete F	Backhoe	SetSelected
2	Building - 1	Concrete F	Concrete P	SetSelected
2	Building - 1	Concrete F	Concrete R	SetSelected
2	Building - 1	Concrete F	Excavator	SetSelected
2	Building - 1	Concrete F	Fork Truck	SetSelected
2	Building - 1	Concrete F	Tool Truck	SetSelected
2	Building - 1	Concrete F	Tractor Tra	SetSelected
2	Building - 1	Constructic	Survey Cre	SetSelected
2	Building - 1	Constructic	Tractor Tra	SetSelected
2	Building - 1	Exterior W	Fork Truck	SetSelected
2	Building - 1	Exterior W	Generator	SetSelected
2	Building - 1	Exterior W	Grout Mixe	SetSelected
2	Building - 1	Exterior W	Grout Whe	SetSelected
2	Building - 1	Exterior W	Man Lift	SetSelected
2	Building - 1	Exterior W	Tool Truck	SetSelected
2	Building - 1	Exterior W	Tractor Tra	SetSelected
2	Building - 1	Exterior W	Truck Towe	SetSelected
2	Building - 1	Interior Bu	Fork Truck	SetSelected
2	Building - 1	Interior Bu	Man Lift	SetSelected
2	Building - 1	Interior Bu	Tool Truck	SetSelected
2	Building - 1	Interior Bu	Tractor Tra	SetSelected
2	Building - 1	Roofing	High Lift	SetSelected
2	Building - 1	Roofing	Man Lift	SetSelected
2	Building - 1	Roofing	Material Dı	SetSelected
2	Building - 1	Roofing	Tractor Tra	SetSelected
2	Building - 1	Roofing	Truck Towe	SetSelected
2	Building - 1	Security &	High Lift	SetSelected
2	Building - 1	Security &	Tool Truck	SetSelected
2	Building - 1	Structural S	90 Ton Cra	SetSelected
2	Building - 1	Structural S	Concrete P	SetSelected
2	Building - 1	Structural S	Concrete T	SetSelected
2	Building - 1	Structural S	Fork Truck	SetSelected
2	Building - 1	Structural S	Tool Truck	SetSelected
2	Building - 1	Structural S	Tractor Tra	SetSelected
2	Building - 1	Structural S	Trowel Ma	SetSelected
2	Building - 1	Structural S	Truck Towe	SetSelected
2	Cargo Apro	Clearing an	Chain Saw	SetSelected
2	Cargo Apro	Clearing an	Chipper/St	SetSelected
2	Cargo Apro	Clearing an	Pickup Truc	SetSelected
2	Cargo Apro	Concrete P	Air Compre	SetSelected
2	Cargo Apro	Concrete P	Concrete S	SetSelected
2	Cargo Apro	Concrete P	Concrete T	SetSelected
2	Cargo Apro	Concrete P	Other Gene	SetSelected
2	Cargo Apro	Concrete P	Pickup Truc	SetSelected
2	Cargo Apro	Concrete P	Rubber Tir	SetSelected
2	Cargo Apro	Concrete P	Slip Form P	SetSelected
2	Cargo Apro	Concrete P	Surfacing E	SetSelected
2	Cargo Apro	Drainage -	Dozer	SetSelected
2	Cargo Apro	Drainage -	Dump Truc	SetSelected
2	Cargo Apro	Drainage -	Excavator	SetSelected
2	Cargo Apro	Drainage -	Loader	SetSelected
2	Cargo Apro	Drainage -	Other Gene	SetSelected
2	Cargo Apro	Drainage -	Pickup Truc	SetSelected
2	Cargo Apro	Drainage -	Roller	SetSelected
2	Cargo Apro	Drainage -	Dump Truc	SetSelected
2	Cargo Apro	Drainage -	Loader	SetSelected
2	Cargo Apro	Drainage -	Other Gene	SetSelected
2	Cargo Apro	Drainage -	Pickup Truc	SetSelected
2	Cargo Apro	Drainage -	Tractors/Lc	SetSelected
2	Cargo Apro	Dust Contr	Water Truc	SetSelected
2	Cargo Apro	Excavation	Dozer	SetSelected
2	Cargo Apro	Excavation	Dump Truc	SetSelected
2	Cargo Apro	Excavation	Pickup Truc	SetSelected
2	Cargo Apro	Excavation	Roller	SetSelected
2	Cargo Apro	Excavation	Dozer	SetSelected
2	Cargo Apro	Excavation	Dump Truc	SetSelected
2	Cargo Apro	Excavation	Excavator	SetSelected
2	Cargo Apro	Excavation	Pickup Truc	SetSelected
2	Cargo Apro	Excavation	Roller	SetSelected
2	Cargo Apro	Excavation	Scraper	SetSelected
2	Cargo Apro	Excavation	Dozer	SetSelected
2	Cargo Apro	Fencing	Concrete T	SetSelected
2	Cargo Apro	Fencing	Dump Truc	SetSelected
2	Cargo Apro	Fencing	Other Gene	SetSelected
2	Cargo Apro	Fencing	Pickup Truc	SetSelected
2	Cargo Apro	Fencing	Skid Steer I	SetSelected
2	Cargo Apro	Fencing	Tractors/Lc	SetSelected
2	Cargo Apro	Grading	Dozer	SetSelected
2	Cargo Apro	Grading	Grader	SetSelected
2	Cargo Apro	Grading	Roller	SetSelected
2	Cargo Apro	Hydroseed	Hydroseed	SetSelected
2	Cargo Apro	Hydroseed	Off-Road T	SetSelected
2	Cargo Apro	Lighting	Dump Truc	SetSelected
2	Cargo Apro	Lighting	Loader	SetSelected
2	Cargo Apro	Lighting	Other Gene	SetSelected
2	Cargo Apro	Lighting	Pickup Truc	SetSelected
2	Cargo Apro	Lighting	Skid Steer I	SetSelected
2	Cargo Apro	Lighting	Tractors/Lc	SetSelected
2	Cargo Apro	Markings	Flatbed Tru	SetSelected
2	Cargo Apro	Markings	Other Gene	SetSelected
2	Cargo Apro	Markings	Pickup Truc	SetSelected
2	Cargo Apro	Sealing/Fu	Distributing	SetSelected
2	Cargo Apro	Sealing/Fu	Other Gene	SetSelected
2	Cargo Apro	Sealing/Fu	Pickup Truc	SetSelected
2	Cargo Apro	Soil Erosior	Other Gene	SetSelected
2	Cargo Apro	Soil Erosior	Pickup Truc	SetSelected
2	Cargo Apro	Soil Erosior	Pumps	SetSelected
2	Cargo Apro	Soil Erosior	Tractors/Lc	SetSelected
2	Cargo Apro	Subbase Pl	Dozer	SetSelected

ACEIT Input - Modified Asphalt Application Rates

2	Cargo Apro	Subbase Pl	Dump Truc	SetSelected
2	Cargo Apro	Subbase Pl	Pickup Truc	SetSelected
2	Cargo Apro	Subbase Pl	Roller	SetSelected
2	Cargo Apro	Topsoil Pla	Dozer	SetSelected
2	Cargo Apro	Topsoil Pla	Dump Truc	SetSelected
2	Cargo Apro	Topsoil Pla	Pickup Truc	SetSelected
2	Parking Lot	Asphalt Pla	Asphalt Pav	SetSelected
2	Parking Lot	Asphalt Pla	Dump Truc	SetSelected
2	Parking Lot	Asphalt Pla	Other Gene	SetSelected
2	Parking Lot	Asphalt Pla	Pickup Truc	SetSelected
2	Parking Lot	Asphalt Pla	Roller	SetSelected
2	Parking Lot	Asphalt Pla	Skid Steer I	SetSelected
2	Parking Lot	Asphalt Pla	Surfacing E	SetSelected
2	Parking Lot	Clearing an	Chain Saw	SetSelected
2	Parking Lot	Clearing an	Chipper/St	SetSelected
2	Parking Lot	Clearing an	Pickup Truc	SetSelected
2	Parking Lot	Curbing	Concrete T	SetSelected
2	Parking Lot	Curbing	Curb/Gutte	SetSelected
2	Parking Lot	Curbing	Other Gene	SetSelected
2	Parking Lot	Curbing	Pickup Truc	SetSelected
2	Parking Lot	Drainage -	Dozer	SetSelected
2	Parking Lot	Drainage -	Dump Truc	SetSelected
2	Parking Lot	Drainage -	Excavator	SetSelected
2	Parking Lot	Drainage -	Loader	SetSelected
2	Parking Lot	Drainage -	Other Gene	SetSelected
2	Parking Lot	Drainage -	Pickup Truc	SetSelected
2	Parking Lot	Drainage -	Roller	SetSelected
2	Parking Lot	Drainage -	Dump Truc	SetSelected
2	Parking Lot	Drainage -	Loader	SetSelected
2	Parking Lot	Drainage -	Other Gene	SetSelected
2	Parking Lot	Drainage -	Pickup Truc	SetSelected
2	Parking Lot	Drainage -	Tractors/Lo	SetSelected
2	Parking Lot	Excavation	Dozer	SetSelected
2	Parking Lot	Excavation	Dump Truc	SetSelected
2	Parking Lot	Excavation	Pickup Truc	SetSelected
2	Parking Lot	Excavation	Roller	SetSelected
2	Parking Lot	Excavation	Dozer	SetSelected
2	Parking Lot	Excavation	Dump Truc	SetSelected
2	Parking Lot	Excavation	Excavator	SetSelected
2	Parking Lot	Excavation	Pickup Truc	SetSelected
2	Parking Lot	Excavation	Roller	SetSelected
2	Parking Lot	Excavation	Scraper	SetSelected
2	Parking Lot	Excavation	Dozer	SetSelected
2	Parking Lot	Fencing	Concrete T	SetSelected
2	Parking Lot	Fencing	Dump Truc	SetSelected
2	Parking Lot	Fencing	Other Gene	SetSelected
2	Parking Lot	Fencing	Pickup Truc	SetSelected
2	Parking Lot	Fencing	Skid Steer I	SetSelected
2	Parking Lot	Fencing	Tractors/Lo	SetSelected
2	Parking Lot	Grading	Dozer	SetSelected
2	Parking Lot	Grading	Grader	SetSelected
2	Parking Lot	Grading	Roller	SetSelected
2	Parking Lot	Hydroseed	Hydroseed	SetSelected
2	Parking Lot	Hydroseed	Off-Road T	SetSelected
2	Parking Lot	Markings	Flatbed Tru	SetSelected
2	Parking Lot	Markings	Other Gene	SetSelected
2	Parking Lot	Markings	Pickup Truc	SetSelected
2	Parking Lot	Sidewalks	Concrete T	SetSelected
2	Parking Lot	Sidewalks	Dump Truc	SetSelected
2	Parking Lot	Sidewalks	Pickup Truc	SetSelected
2	Parking Lot	Sidewalks	Tractors/Lo	SetSelected
2	Parking Lot	Sidewalks	Vibratory C	SetSelected
2	Parking Lot	Soil Erosion	Other Gene	SetSelected
2	Parking Lot	Soil Erosion	Pickup Truc	SetSelected
2	Parking Lot	Soil Erosion	Pumps	SetSelected
2	Parking Lot	Soil Erosion	Tractors/Lo	SetSelected
2	Parking Lot	Street Ligh	Dump Truc	SetSelected
2	Parking Lot	Street Ligh	Loader	SetSelected
2	Parking Lot	Street Ligh	Other Gene	SetSelected
2	Parking Lot	Street Ligh	Pickup Truc	SetSelected
2	Parking Lot	Street Ligh	Skid Steer I	SetSelected
2	Parking Lot	Street Ligh	Tractors/Lo	SetSelected
2	Parking Lot	Subbase Pl	Dozer	SetSelected
2	Parking Lot	Subbase Pl	Dump Truc	SetSelected
2	Parking Lot	Subbase Pl	Pickup Truc	SetSelected
2	Parking Lot	Subbase Pl	Roller	SetSelected
2	Parking Lot	Topsoil Pla	Dozer	SetSelected
2	Parking Lot	Topsoil Pla	Dump Truc	SetSelected
2	Parking Lot	Topsoil Pla	Pickup Truc	SetSelected
2	Parking Lot	Tree Planti	Flatbed Tru	SetSelected
2	Parking Lot	Tree Planti	Other Gene	SetSelected
2	Parking Lot	Tree Planti	Pickup Truc	SetSelected
2	Parking Lot	Tree Planti	Tractors/Lo	SetSelected
3	Building - 1	Concrete F	Backhoe	SetSelected
3	Building - 1	Concrete F	Concrete P	SetSelected
3	Building - 1	Concrete F	Concrete R	SetSelected
3	Building - 1	Concrete F	Excavator	SetSelected
3	Building - 1	Concrete F	Fork Truck	SetSelected
3	Building - 1	Concrete F	Tool Truck	SetSelected
3	Building - 1	Concrete F	Tractor Tra	SetSelected
3	Building - 1	Constructio	Survey Cre	SetSelected
3	Building - 1	Constructio	Tractor Tra	SetSelected
3	Building - 1	Exterior W	Fork Truck	SetSelected
3	Building - 1	Exterior W	Generator	SetSelected
3	Building - 1	Exterior W	Grout Mixe	SetSelected
3	Building - 1	Exterior W	Grout Whe	SetSelected
3	Building - 1	Exterior W	Man Lift	SetSelected
3	Building - 1	Exterior W	Tool Truck	SetSelected
3	Building - 1	Exterior W	Tractor Tra	SetSelected
3	Building - 1	Exterior W	Truck Towe	SetSelected
3	Building - 1	Interior Bu	Fork Truck	SetSelected
3	Building - 1	Interior Bu	Man Lift	SetSelected
3	Building - 1	Interior Bu	Tool Truck	SetSelected
3	Building - 1	Interior Bu	Tractor Tra	SetSelected
3	Building - 1	Roofing	High Lift	SetSelected
3	Building - 1	Roofing	Man Lift	SetSelected
3	Building - 1	Roofing	Material De	SetSelected
3	Building - 1	Roofing	Tractor Tra	SetSelected
3	Building - 1	Roofing	Truck Towe	SetSelected
3	Building - 1	Security &	High Lift	SetSelected
3	Building - 1	Security &	Tool Truck	SetSelected
3	Building - 1	Structural S	90 Ton Cra	SetSelected
3	Building - 1	Structural S	Concrete P	SetSelected
3	Building - 1	Structural S	Concrete T	SetSelected
3	Building - 1	Structural S	Fork Truck	SetSelected
3	Building - 1	Structural S	Tool Truck	SetSelected
3	Building - 1	Structural S	Tractor Tra	SetSelected
3	Building - 1	Structural S	Trowel Ma	SetSelected
3	Building - 1	Structural S	Truck Towe	SetSelected
3	Cargo Apro	Clearing an	Chain Saw	SetSelected
3	Cargo Apro	Clearing an	Chipper/St	SetSelected
3	Cargo Apro	Clearing an	Pickup Truc	SetSelected
3	Cargo Apro	Concrete P	Air Compre	SetSelected
3	Cargo Apro	Concrete P	Concrete S	SetSelected
3	Cargo Apro	Concrete P	Concrete T	SetSelected
3	Cargo Apro	Concrete P	Other Gene	SetSelected
3	Cargo Apro	Concrete P	Pickup Truc	SetSelected
3	Cargo Apro	Concrete P	Rubber Tire	SetSelected
3	Cargo Apro	Concrete P	Slip Form P	SetSelected
3	Cargo Apro	Concrete P	Surfacing E	SetSelected
3	Cargo Apro	Drainage -	Dozer	SetSelected
3	Cargo Apro	Drainage -	Dump Truc	SetSelected
3	Cargo Apro	Drainage -	Excavator	SetSelected
3	Cargo Apro	Drainage -	Loader	SetSelected
3	Cargo Apro	Drainage -	Other Gene	SetSelected
3	Cargo Apro	Drainage -	Pickup Truc	SetSelected
3	Cargo Apro	Drainage -	Roller	SetSelected
3	Cargo Apro	Drainage -	Dump Truc	SetSelected
3	Cargo Apro	Drainage -	Loader	SetSelected
3	Cargo Apro	Drainage -	Other Gene	SetSelected
3	Cargo Apro	Drainage -	Pickup Truc	SetSelected
3	Cargo Apro	Drainage -	Tractors/Lo	SetSelected
3	Cargo Apro	Dust Contr	Water Truc	SetSelected
3	Cargo Apro	Excavation	Dozer	SetSelected
3	Cargo Apro	Excavation	Dump Truc	SetSelected
3	Cargo Apro	Excavation	Pickup Truc	SetSelected
3	Cargo Apro	Excavation	Roller	SetSelected
3	Cargo Apro	Excavation	Dozer	SetSelected
3	Cargo Apro	Excavation	Dump Truc	SetSelected
3	Cargo Apro	Excavation	Excavator	SetSelected
3	Cargo Apro	Excavation	Pickup Truc	SetSelected
3	Cargo Apro	Excavation	Roller	SetSelected
3	Cargo Apro	Excavation	Scraper	SetSelected
3	Cargo Apro	Excavation	Dozer	SetSelected
3	Cargo Apro	Fencing	Concrete T	SetSelected
3	Cargo Apro	Fencing	Dump Truc	SetSelected
3	Cargo Apro	Fencing	Other Gene	SetSelected
3	Cargo Apro	Fencing	Pickup Truc	SetSelected
3	Cargo Apro	Fencing	Skid Steer I	SetSelected
3	Cargo Apro	Fencing	Tractors/Lo	SetSelected
3	Cargo Apro	Grading	Dozer	SetSelected
3	Cargo Apro	Grading	Grader	SetSelected
3	Cargo Apro	Grading	Roller	SetSelected
3	Cargo Apro	Hydroseed	Hydroseed	SetSelected
3	Cargo Apro	Hydroseed	Off-Road T	SetSelected
3	Cargo Apro	Lighting	Dump Truc	SetSelected
3	Cargo Apro	Lighting	Loader	SetSelected
3	Cargo Apro	Lighting	Other Gene	SetSelected
3	Cargo Apro	Lighting	Pickup Truc	SetSelected
3	Cargo Apro	Lighting	Skid Steer I	SetSelected
3	Cargo Apro	Lighting	Tractors/Lo	SetSelected
3	Cargo Apro	Markings	Flatbed Tru	SetSelected

ACEIT Input - Modified Asphalt Application Rates

3	Cargo Apro	Markings	Other Gen	Set	Selected
3	Cargo Apro	Markings	Pickup Truc	Set	Selected
3	Cargo Apro	Sealing/Fu	Distributing	Set	Selected
3	Cargo Apro	Sealing/Fu	Other Gen	Set	Selected
3	Cargo Apro	Sealing/Fu	Pickup Truc	Set	Selected
3	Cargo Apro	Soil Erosior	Other Gen	Set	Selected
3	Cargo Apro	Soil Erosior	Pickup Truc	Set	Selected
3	Cargo Apro	Soil Erosior	Pumps	Set	Selected
3	Cargo Apro	Soil Erosior	Tractors/Lc	Set	Selected
3	Cargo Apro	Subbase Pl	Dozer	Set	Selected
3	Cargo Apro	Subbase Pl	Dump Truc	Set	Selected
3	Cargo Apro	Subbase Pl	Pickup Truc	Set	Selected
3	Cargo Apro	Subbase Pl	Roller	Set	Selected
3	Cargo Apro	Topsoil Pla	Dozer	Set	Selected
3	Cargo Apro	Topsoil Pla	Dump Truc	Set	Selected
3	Cargo Apro	Topsoil Pla	Pickup Truc	Set	Selected
3	Drainage S	Drainage -	Dozer	Set	Selected
3	Drainage S	Drainage -	Dump Truc	Set	Selected
3	Drainage S	Drainage -	Excavator	Set	Selected
3	Drainage S	Drainage -	Loader	Set	Selected
3	Drainage S	Drainage -	Other Gen	Set	Selected
3	Drainage S	Drainage -	Pickup Truc	Set	Selected
3	Drainage S	Drainage -	Roller	Set	Selected
3	Drainage S	Drainage -	Dozer	Set	Selected
3	Drainage S	Drainage -	Dump Truc	Set	Selected
3	Drainage S	Drainage -	Excavator	Set	Selected
3	Drainage S	Drainage -	Loader	Set	Selected
3	Drainage S	Drainage -	Other Gen	Set	Selected
3	Drainage S	Drainage -	Pickup Truc	Set	Selected
3	Drainage S	Drainage -	Roller	Set	Selected
3	Drainage S	Drainage S	Dump Truc	Set	Selected
3	Drainage S	Drainage S	Excavator	Set	Selected
3	Drainage S	Drainage S	Other Gen	Set	Selected
3	Drainage S	Drainage S	Pickup Truc	Set	Selected
3	Drainage S	Hydroseed	Hydroseed	Set	Selected
3	Drainage S	Hydroseed	Off-Road T	Set	Selected
3	Drainage S	Soil Erosior	Other Gen	Set	Selected
3	Drainage S	Soil Erosior	Pickup Truc	Set	Selected
3	Drainage S	Soil Erosior	Pumps	Set	Selected
3	Drainage S	Soil Erosior	Tractors/Lc	Set	Selected
3	Drainage S	Topsoil Pla	Dozer	Set	Selected
3	Drainage S	Topsoil Pla	Dump Truc	Set	Selected
3	Drainage S	Topsoil Pla	Pickup Truc	Set	Selected
3	Fuel Tanks	Clearing an	Chain Saw	Set	Selected
3	Fuel Tanks	Clearing an	Chipper/St	Set	Selected
3	Fuel Tanks	Clearing an	Pickup Truc	Set	Selected
3	Fuel Tanks	Concrete P	Air Compre	Set	Selected
3	Fuel Tanks	Concrete P	Concrete S	Set	Selected
3	Fuel Tanks	Concrete P	Concrete T	Set	Selected
3	Fuel Tanks	Concrete P	Other Gen	Set	Selected
3	Fuel Tanks	Concrete P	Pickup Truc	Set	Selected
3	Fuel Tanks	Concrete P	Rubber Tir	Set	Selected
3	Fuel Tanks	Concrete P	Slip Form P	Set	Selected
3	Fuel Tanks	Concrete P	Surfacing E	Set	Selected
3	Fuel Tanks	Constructic	Crane	Set	Selected
3	Fuel Tanks	Constructic	Other Gen	Set	Selected
3	Fuel Tanks	Constructic	Pickup Truc	Set	Selected
3	Fuel Tanks	Drainage -	Excavator	Set	Selected
3	Fuel Tanks	Drainage	Dozer	Set	Selected
3	Fuel Tanks	Drainage	Dump Truc	Set	Selected
3	Fuel Tanks	Drainage	Loader	Set	Selected
3	Fuel Tanks	Drainage	Other Gen	Set	Selected
3	Fuel Tanks	Drainage	Pickup Truc	Set	Selected
3	Fuel Tanks	Drainage	Roller	Set	Selected
3	Fuel Tanks	Dust Contr	Water Truc	Set	Selected
3	Fuel Tanks	Excavation	Dozer	Set	Selected
3	Fuel Tanks	Excavation	Dump Truc	Set	Selected
3	Fuel Tanks	Excavation	Pickup Truc	Set	Selected
3	Fuel Tanks	Excavation	Roller	Set	Selected
3	Fuel Tanks	Excavation	Dozer	Set	Selected
3	Fuel Tanks	Excavation	Dump Truc	Set	Selected
3	Fuel Tanks	Excavation	Excavator	Set	Selected
3	Fuel Tanks	Excavation	Pickup Truc	Set	Selected
3	Fuel Tanks	Excavation	Roller	Set	Selected
3	Fuel Tanks	Excavation	Scraper	Set	Selected
3	Fuel Tanks	Excavation	Dozer	Set	Selected
3	Fuel Tanks	Fencing	Concrete T	Set	Selected
3	Fuel Tanks	Fencing	Dump Truc	Set	Selected
3	Fuel Tanks	Fencing	Other Gen	Set	Selected
3	Fuel Tanks	Fencing	Pickup Truc	Set	Selected
3	Fuel Tanks	Fencing	Skid Steer I	Set	Selected
3	Fuel Tanks	Fencing	Tractors/Lc	Set	Selected
3	Fuel Tanks	Grading	Dozer	Set	Selected
3	Fuel Tanks	Grading	Grader	Set	Selected
3	Fuel Tanks	Grading	Roller	Set	Selected
3	Fuel Tanks	Hydroseed	Hydroseed	Set	Selected
3	Fuel Tanks	Hydroseed	Off-Road T	Set	Selected
3	Fuel Tanks	Markings	Flatbed Tru	Set	Selected
3	Fuel Tanks	Markings	Other Gen	Set	Selected
3	Fuel Tanks	Markings	Pickup Truc	Set	Selected
3	Fuel Tanks	Soil Erosior	Other Gen	Set	Selected
3	Fuel Tanks	Soil Erosior	Pickup Truc	Set	Selected
3	Fuel Tanks	Soil Erosior	Pumps	Set	Selected
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Set	Selected
3	Fuel Tanks	Street Ligh	Dump Truc	Set	Selected
3	Fuel Tanks	Street Ligh	Loader	Set	Selected
3	Fuel Tanks	Street Ligh	Other Gen	Set	Selected
3	Fuel Tanks	Street Ligh	Pickup Truc	Set	Selected
3	Fuel Tanks	Street Ligh	Skid Steer I	Set	Selected
3	Fuel Tanks	Street Ligh	Tractors/Lc	Set	Selected
3	Fuel Tanks	Subbase Pl	Dozer	Set	Selected
3	Fuel Tanks	Subbase Pl	Dump Truc	Set	Selected
3	Fuel Tanks	Subbase Pl	Pickup Truc	Set	Selected
3	Fuel Tanks	Subbase Pl	Roller	Set	Selected
3	Fuel Tanks	Topsoil Pla	Dozer	Set	Selected
3	Fuel Tanks	Topsoil Pla	Dump Truc	Set	Selected
3	Fuel Tanks	Topsoil Pla	Pickup Truc	Set	Selected
3	Parking Lot	Asphalt Pla	Asphalt Pa	Set	Selected
3	Parking Lot	Asphalt Pla	Dump Truc	Set	Selected
3	Parking Lot	Asphalt Pla	Other Gen	Set	Selected
3	Parking Lot	Asphalt Pla	Pickup Truc	Set	Selected
3	Parking Lot	Asphalt Pla	Roller	Set	Selected
3	Parking Lot	Asphalt Pla	Skid Steer I	Set	Selected
3	Parking Lot	Asphalt Pla	Surfacing E	Set	Selected
3	Parking Lot	Clearing an	Chain Saw	Set	Selected
3	Parking Lot	Clearing an	Chipper/St	Set	Selected
3	Parking Lot	Clearing an	Pickup Truc	Set	Selected
3	Parking Lot	Curbing	Concrete T	Set	Selected
3	Parking Lot	Curbing	Curb/Gutte	Set	Selected
3	Parking Lot	Curbing	Other Gen	Set	Selected
3	Parking Lot	Curbing	Pickup Truc	Set	Selected
3	Parking Lot	Drainage -	Dozer	Set	Selected
3	Parking Lot	Drainage -	Dump Truc	Set	Selected
3	Parking Lot	Drainage -	Excavator	Set	Selected
3	Parking Lot	Drainage -	Loader	Set	Selected
3	Parking Lot	Drainage -	Other Gen	Set	Selected
3	Parking Lot	Drainage -	Pickup Truc	Set	Selected
3	Parking Lot	Drainage -	Roller	Set	Selected
3	Parking Lot	Drainage -	Dump Truc	Set	Selected
3	Parking Lot	Drainage -	Loader	Set	Selected
3	Parking Lot	Drainage -	Other Gen	Set	Selected
3	Parking Lot	Drainage -	Pickup Truc	Set	Selected
3	Parking Lot	Drainage -	Tractors/Lc	Set	Selected
3	Parking Lot	Excavation	Dozer	Set	Selected
3	Parking Lot	Excavation	Dump Truc	Set	Selected
3	Parking Lot	Excavation	Pickup Truc	Set	Selected
3	Parking Lot	Excavation	Roller	Set	Selected
3	Parking Lot	Excavation	Dozer	Set	Selected
3	Parking Lot	Excavation	Dump Truc	Set	Selected
3	Parking Lot	Excavation	Excavator	Set	Selected
3	Parking Lot	Excavation	Pickup Truc	Set	Selected
3	Parking Lot	Excavation	Roller	Set	Selected
3	Parking Lot	Excavation	Scraper	Set	Selected
3	Parking Lot	Excavation	Dozer	Set	Selected
3	Parking Lot	Fencing	Concrete T	Set	Selected
3	Parking Lot	Fencing	Dump Truc	Set	Selected
3	Parking Lot	Fencing	Other Gen	Set	Selected
3	Parking Lot	Fencing	Pickup Truc	Set	Selected
3	Parking Lot	Fencing	Skid Steer I	Set	Selected
3	Parking Lot	Fencing	Tractors/Lc	Set	Selected
3	Parking Lot	Grading	Dozer	Set	Selected
3	Parking Lot	Grading	Grader	Set	Selected
3	Parking Lot	Grading	Roller	Set	Selected
3	Parking Lot	Hydroseed	Hydroseed	Set	Selected
3	Parking Lot	Hydroseed	Off-Road T	Set	Selected
3	Parking Lot	Markings	Flatbed Tru	Set	Selected
3	Parking Lot	Markings	Other Gen	Set	Selected
3	Parking Lot	Markings	Pickup Truc	Set	Selected
3	Parking Lot	Sidewalks	Concrete T	Set	Selected
3	Parking Lot	Sidewalks	Dump Truc	Set	Selected
3	Parking Lot	Sidewalks	Pickup Truc	Set	Selected
3	Parking Lot	Sidewalks	Tractors/Lc	Set	Selected
3	Parking Lot	Sidewalks	Vibratory C	Set	Selected
3	Parking Lot	Soil Erosior	Other Gen	Set	Selected
3	Parking Lot	Soil Erosior	Pickup Truc	Set	Selected
3	Parking Lot	Soil Erosior	Pumps	Set	Selected
3	Parking Lot	Soil Erosior	Tractors/Lc	Set	Selected
3	Parking Lot	Street Ligh	Dump Truc	Set	Selected
3	Parking Lot	Street Ligh	Loader	Set	Selected
3	Parking Lot	Street Ligh	Other Gen	Set	Selected
3	Parking Lot	Street Ligh	Pickup Truc	Set	Selected
3	Parking Lot	Street Ligh	Skid Steer I	Set	Selected

ACEIT Input - Modified Asphalt Application Rates

3	Parking Lot	Street Ligh	Tractors/Lc	SetSelected
3	Parking Lot	Subbase Pl	Dozer	SetSelected
3	Parking Lot	Subbase Pl	Dump Truc	SetSelected
3	Parking Lot	Subbase Pl	Pickup Truc	SetSelected
3	Parking Lot	Subbase Pl	Roller	SetSelected
3	Parking Lot	Topsoil Pla	Dozer	SetSelected
3	Parking Lot	Topsoil Pla	Dump Truc	SetSelected
3	Parking Lot	Topsoil Pla	Pickup Truc	SetSelected
3	Parking Lot	Tree Planti	Flatbed Tru	SetSelected
3	Parking Lot	Tree Planti	Other Gene	SetSelected
3	Parking Lot	Tree Planti	Pickup Truc	SetSelected
3	Parking Lot	Tree Planti	Tractors/Lc	SetSelected
3	Taxiways	Asphalt Pla	Asphalt Pa	SetSelected
3	Taxiways	Asphalt Pla	Dump Truc	SetSelected
3	Taxiways	Asphalt Pla	Other Gene	SetSelected
3	Taxiways	Asphalt Pla	Pickup Truc	SetSelected
3	Taxiways	Asphalt Pla	Roller	SetSelected
3	Taxiways	Asphalt Pla	Skid Steer l	SetSelected
3	Taxiways	Asphalt Pla	Surfacing E	SetSelected
3	Taxiways	Clearing an	Chain Saw	SetSelected
3	Taxiways	Clearing an	Chipper/St	SetSelected
3	Taxiways	Clearing an	Pickup Truc	SetSelected
3	Taxiways	Drainage -	Dozer	SetSelected
3	Taxiways	Drainage -	Dump Truc	SetSelected
3	Taxiways	Drainage -	Excavator	SetSelected
3	Taxiways	Drainage -	Loader	SetSelected
3	Taxiways	Drainage -	Other Gene	SetSelected
3	Taxiways	Drainage -	Pickup Truc	SetSelected
3	Taxiways	Drainage -	Roller	SetSelected
3	Taxiways	Drainage -	Dump Truc	SetSelected
3	Taxiways	Drainage -	Loader	SetSelected
3	Taxiways	Drainage -	Other Gene	SetSelected
3	Taxiways	Drainage -	Pickup Truc	SetSelected
3	Taxiways	Drainage -	Tractors/Lc	SetSelected
3	Taxiways	Dust Contr	Water Truc	SetSelected
3	Taxiways	Excavation	Dozer	SetSelected
3	Taxiways	Excavation	Dump Truc	SetSelected
3	Taxiways	Excavation	Pickup Truc	SetSelected
3	Taxiways	Excavation	Roller	SetSelected
3	Taxiways	Excavation	Dozer	SetSelected
3	Taxiways	Excavation	Dump Truc	SetSelected
3	Taxiways	Excavation	Excavator	SetSelected
3	Taxiways	Excavation	Pickup Truc	SetSelected
3	Taxiways	Excavation	Roller	SetSelected
3	Taxiways	Excavation	Scraper	SetSelected
3	Taxiways	Excavation	Dozer	SetSelected
3	Taxiways	Fencing	Concrete T	SetSelected
3	Taxiways	Fencing	Dump Truc	SetSelected
3	Taxiways	Fencing	Other Gene	SetSelected
3	Taxiways	Fencing	Pickup Truc	SetSelected
3	Taxiways	Fencing	Skid Steer l	SetSelected
3	Taxiways	Fencing	Tractors/Lc	SetSelected
3	Taxiways	Grading	Dozer	SetSelected
3	Taxiways	Grading	Grader	SetSelected
3	Taxiways	Grading	Roller	SetSelected
3	Taxiways	Hydroseed	Hydroseed	SetSelected
3	Taxiways	Hydroseed	Off-Road T	SetSelected
3	Taxiways	Lighting	Dump Truc	SetSelected
3	Taxiways	Lighting	Loader	SetSelected
3	Taxiways	Lighting	Other Gene	SetSelected
3	Taxiways	Lighting	Pickup Truc	SetSelected
3	Taxiways	Lighting	Skid Steer l	SetSelected
3	Taxiways	Lighting	Tractors/Lc	SetSelected
3	Taxiways	Markings	Flatbed Tru	SetSelected
3	Taxiways	Markings	Other Gene	SetSelected
3	Taxiways	Markings	Pickup Truc	SetSelected
3	Taxiways	Soil Erosior	Other Gene	SetSelected
3	Taxiways	Soil Erosior	Pickup Truc	SetSelected
3	Taxiways	Soil Erosior	Pumps	SetSelected
3	Taxiways	Soil Erosior	Tractors/Lc	SetSelected
3	Taxiways	Subbase Pl	Dozer	SetSelected
3	Taxiways	Subbase Pl	Dump Truc	SetSelected
3	Taxiways	Subbase Pl	Pickup Truc	SetSelected
3	Taxiways	Subbase Pl	Roller	SetSelected
3	Taxiways	Topsoil Pla	Dozer	SetSelected
3	Taxiways	Topsoil Pla	Dump Truc	SetSelected
3	Taxiways	Topsoil Pla	Pickup Truc	SetSelected

Final Selections

1	Cargo Apro	Clearing an	Chain Saw	Diesel
1	Cargo Apro	Clearing an	Chipper/St	Diesel
1	Cargo Apro	Clearing an	Pickup Truc	Diesel
1	Cargo Apro	Concrete P	Air Compre	Diesel
1	Cargo Apro	Concrete P	Concrete S	Diesel
1	Cargo Apro	Concrete P	Concrete T	Diesel
1	Cargo Apro	Concrete P	Other Gene	Diesel
1	Cargo Apro	Concrete P	Pickup Truc	Diesel
1	Cargo Apro	Concrete P	Rubber Tire	Diesel
1	Cargo Apro	Concrete P	Slip Form P	Diesel
1	Cargo Apro	Concrete P	Surfacing E	Diesel
1	Cargo Apro	Drainage -	Dozer	Diesel
1	Cargo Apro	Drainage -	Dump Truc	Diesel
1	Cargo Apro	Drainage -	Excavator	Diesel
1	Cargo Apro	Drainage -	Loader	Diesel
1	Cargo Apro	Drainage -	Other Gene	Diesel
1	Cargo Apro	Drainage -	Pickup Truc	Diesel
1	Cargo Apro	Drainage -	Roller	Diesel
1	Cargo Apro	Drainage -	Dump Truc	Diesel
1	Cargo Apro	Drainage -	Loader	Diesel
1	Cargo Apro	Drainage -	Other Gene	Diesel
1	Cargo Apro	Drainage -	Pickup Truc	Diesel
1	Cargo Apro	Drainage -	Tractors/Lc	Diesel
1	Cargo Apro	Dust Contr	Water Truc	Diesel
1	Cargo Apro	Excavation	Dozer	Diesel
1	Cargo Apro	Excavation	Dump Truc	Diesel
1	Cargo Apro	Excavation	Pickup Truc	Diesel
1	Cargo Apro	Excavation	Roller	Diesel
1	Cargo Apro	Excavation	Dozer	Diesel
1	Cargo Apro	Excavation	Dump Truc	Diesel
1	Cargo Apro	Excavation	Excavator	Diesel
1	Cargo Apro	Excavation	Pickup Truc	Diesel
1	Cargo Apro	Excavation	Roller	Diesel
1	Cargo Apro	Excavation	Scraper	Diesel
1	Cargo Apro	Excavation	Dozer	Diesel
1	Cargo Apro	Fencing	Concrete T	Diesel
1	Cargo Apro	Fencing	Dump Truc	Diesel
1	Cargo Apro	Fencing	Other Gene	Diesel
1	Cargo Apro	Fencing	Pickup Truc	Diesel
1	Cargo Apro	Fencing	Skid Steer l	Diesel
1	Cargo Apro	Fencing	Tractors/Lc	Diesel
1	Cargo Apro	Grading	Dozer	Diesel
1	Cargo Apro	Grading	Grader	Diesel
1	Cargo Apro	Grading	Roller	Diesel
1	Cargo Apro	Hydroseed	Hydroseed	Diesel
1	Cargo Apro	Hydroseed	Off-Road T	Diesel
1	Cargo Apro	Lighting	Dump Truc	Diesel
1	Cargo Apro	Lighting	Loader	Diesel
1	Cargo Apro	Lighting	Other Gene	Diesel
1	Cargo Apro	Lighting	Pickup Truc	Diesel
1	Cargo Apro	Lighting	Skid Steer l	Diesel
1	Cargo Apro	Lighting	Tractors/Lc	Diesel
1	Cargo Apro	Markings	Flatbed Tru	Diesel
1	Cargo Apro	Markings	Other Gene	Diesel
1	Cargo Apro	Markings	Pickup Truc	Diesel
1	Cargo Apro	Sealing/Fu	Distributing	Diesel
1	Cargo Apro	Sealing/Fu	Other Gene	Diesel
1	Cargo Apro	Sealing/Fu	Pickup Truc	Diesel
1	Cargo Apro	Soil Erosior	Other Gene	Diesel
1	Cargo Apro	Soil Erosior	Pickup Truc	Diesel
1	Cargo Apro	Soil Erosior	Pumps	Diesel
1	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel
1	Cargo Apro	Subbase Pl	Dozer	Diesel
1	Cargo Apro	Subbase Pl	Dump Truc	Diesel
1	Cargo Apro	Subbase Pl	Pickup Truc	Diesel
1	Cargo Apro	Subbase Pl	Roller	Diesel
1	Cargo Apro	Topsoil Pla	Dozer	Diesel
1	Cargo Apro	Topsoil Pla	Dump Truc	Diesel
1	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel
1	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel
1	Parking Lot	Asphalt Pla	Dump Truc	Diesel
1	Parking Lot	Asphalt Pla	Other Gene	Diesel
1	Parking Lot	Asphalt Pla	Pickup Truc	Diesel
1	Parking Lot	Asphalt Pla	Roller	Diesel
1	Parking Lot	Asphalt Pla	Skid Steer l	Diesel
1	Parking Lot	Asphalt Pla	Surfacing E	Diesel
1	Parking Lot	Clearing an	Chain Saw	Diesel
1	Parking Lot	Clearing an	Chipper/St	Diesel
1	Parking Lot	Clearing an	Pickup Truc	Diesel
1	Parking Lot	Curbing	Concrete T	Diesel
1	Parking Lot	Curbing	Curb/Gutte	Diesel
1	Parking Lot	Curbing	Other Gene	Diesel
1	Parking Lot	Curbing	Pickup Truc	Diesel
1	Parking Lot	Drainage -	Dozer	Diesel
1	Parking Lot	Drainage -	Dump Truc	Diesel
1	Parking Lot	Drainage -	Excavator	Diesel
1	Parking Lot	Drainage -	Loader	Diesel
1	Parking Lot	Drainage -	Other Gene	Diesel
1	Parking Lot	Drainage -	Pickup Truc	Diesel
1	Parking Lot	Drainage -	Roller	Diesel
1	Parking Lot	Drainage -	Dump Truc	Diesel
1	Parking Lot	Drainage -	Loader	Diesel
1	Parking Lot	Drainage -	Other Gene	Diesel

ACEIT Input - Modified Asphalt Application Rates

1	Parking Lot	Drainage -	Pickup Truc	Diesel
1	Parking Lot	Drainage -	Tractors/Lc	Diesel
1	Parking Lot	Excavation	Dozer	Diesel
1	Parking Lot	Excavation	Dump Truc	Diesel
1	Parking Lot	Excavation	Pickup Truc	Diesel
1	Parking Lot	Excavation	Roller	Diesel
1	Parking Lot	Excavation	Dozer	Diesel
1	Parking Lot	Excavation	Dump Truc	Diesel
1	Parking Lot	Excavation	Excavator	Diesel
1	Parking Lot	Excavation	Pickup Truc	Diesel
1	Parking Lot	Excavation	Roller	Diesel
1	Parking Lot	Excavation	Scraper	Diesel
1	Parking Lot	Excavation	Dozer	Diesel
1	Parking Lot	Fencing	Concrete T	Diesel
1	Parking Lot	Fencing	Dump Truc	Diesel
1	Parking Lot	Fencing	Other Gen	Diesel
1	Parking Lot	Fencing	Pickup Truc	Diesel
1	Parking Lot	Fencing	Skid Steer l	Diesel
1	Parking Lot	Fencing	Tractors/Lc	Diesel
1	Parking Lot	Grading	Dozer	Diesel
1	Parking Lot	Grading	Grader	Diesel
1	Parking Lot	Grading	Roller	Diesel
1	Parking Lot	Hydroseed	Hydroseed	Diesel
1	Parking Lot	Hydroseed	Off-Road T	Diesel
1	Parking Lot	Markings	Flatbed Tru	Diesel
1	Parking Lot	Markings	Other Gen	Diesel
1	Parking Lot	Markings	Pickup Truc	Diesel
1	Parking Lot	Sidewalks	Concrete T	Diesel
1	Parking Lot	Sidewalks	Dump Truc	Diesel
1	Parking Lot	Sidewalks	Pickup Truc	Diesel
1	Parking Lot	Sidewalks	Tractors/Lc	Diesel
1	Parking Lot	Sidewalks	Vibratory C	Diesel
1	Parking Lot	Soil Erosior	Other Gen	Diesel
1	Parking Lot	Soil Erosior	Pickup Truc	Diesel
1	Parking Lot	Soil Erosior	Pumps	Diesel
1	Parking Lot	Soil Erosior	Tractors/Lc	Diesel
1	Parking Lot	Street Ligh	Dump Truc	Diesel
1	Parking Lot	Street Ligh	Loader	Diesel
1	Parking Lot	Street Ligh	Other Gen	Diesel
1	Parking Lot	Street Ligh	Pickup Truc	Diesel
1	Parking Lot	Street Ligh	Skid Steer l	Diesel
1	Parking Lot	Street Ligh	Tractors/Lc	Diesel
1	Parking Lot	Subbase Pl	Dozer	Diesel
1	Parking Lot	Subbase Pl	Dump Truc	Diesel
1	Parking Lot	Subbase Pl	Pickup Truc	Diesel
1	Parking Lot	Subbase Pl	Roller	Diesel
1	Parking Lot	Topsoil Pla	Dozer	Diesel
1	Parking Lot	Topsoil Pla	Dump Truc	Diesel
1	Parking Lot	Topsoil Pla	Pickup Truc	Diesel
1	Parking Lot	Tree Planti	Flatbed Tru	Diesel
1	Parking Lot	Tree Planti	Other Gen	Diesel
1	Parking Lot	Tree Planti	Pickup Truc	Diesel
1	Parking Lot	Tree Planti	Tractors/Lc	Diesel
1	Rehabilitat	Asphalt Pla	Asphalt Pa	Diesel
1	Rehabilitat	Asphalt Pla	Dump Truc	Diesel
1	Rehabilitat	Asphalt Pla	Other Gen	Diesel
1	Rehabilitat	Asphalt Pla	Pickup Truc	Diesel
1	Rehabilitat	Asphalt Pla	Roller	Diesel
1	Rehabilitat	Asphalt Pla	Skid Steer l	Diesel
1	Rehabilitat	Asphalt Pla	Surfacing E	Diesel
1	Rehabilitat	Cold Millin	Cold Plane	Diesel
1	Rehabilitat	Cold Millin	Dump Truc	Diesel
1	Rehabilitat	Cold Millin	Pickup Truc	Diesel
1	Rehabilitat	Cold Millin	Sweepers	Diesel
1	Rehabilitat	Cold Millin	Water Truc	Diesel
1	Rehabilitat	Dust Contr	Water Truc	Diesel
1	Rehabilitat	Excavation	Dozer	Diesel
1	Rehabilitat	Excavation	Dump Truc	Diesel
1	Rehabilitat	Excavation	Excavator	Diesel
1	Rehabilitat	Excavation	Pickup Truc	Diesel
1	Rehabilitat	Excavation	Roller	Diesel
1	Rehabilitat	Excavation	Dozer	Diesel
1	Rehabilitat	Grading	Dozer	Diesel
1	Rehabilitat	Grading	Grader	Diesel
1	Rehabilitat	Grading	Roller	Diesel
1	Rehabilitat	Hydroseed	Hydroseed	Diesel
1	Rehabilitat	Hydroseed	Off-Road T	Diesel
1	Rehabilitat	Lighting	Dump Truc	Diesel
1	Rehabilitat	Lighting	Loader	Diesel
1	Rehabilitat	Lighting	Other Gen	Diesel
1	Rehabilitat	Lighting	Pickup Truc	Diesel
1	Rehabilitat	Lighting	Skid Steer l	Diesel
1	Rehabilitat	Lighting	Tractors/Lc	Diesel
1	Rehabilitat	Markings	Flatbed Tru	Diesel
1	Rehabilitat	Markings	Other Gen	Diesel
1	Rehabilitat	Markings	Pickup Truc	Diesel
1	Rehabilitat	Sealing Rar	Crack Clear	Diesel
1	Rehabilitat	Sealing Rar	Crack Filler	Diesel
1	Rehabilitat	Sealing Rar	Flatbed Tru	Diesel
1	Rehabilitat	Sealing Rar	Other Gen	Diesel
1	Rehabilitat	Sealing Rar	Pickup Truc	Diesel
1	Rehabilitat	Soil Erosior	Other Gen	Diesel
1	Rehabilitat	Soil Erosior	Pickup Truc	Diesel
1	Rehabilitat	Soil Erosior	Pumps	Diesel
1	Rehabilitat	Soil Erosior	Tractors/Lc	Diesel
1	Rehabilitat	Subbase Pl	Dozer	Diesel
1	Rehabilitat	Subbase Pl	Dump Truc	Diesel
1	Rehabilitat	Subbase Pl	Pickup Truc	Diesel
1	Rehabilitat	Subbase Pl	Roller	Diesel
1	Rehabilitat	Topsoil Pla	Dozer	Diesel
1	Rehabilitat	Topsoil Pla	Dump Truc	Diesel
1	Rehabilitat	Topsoil Pla	Pickup Truc	Diesel
2	Building - 1	Concrete F	Backhoe	Diesel
2	Building - 1	Concrete F	Concrete P	Diesel
2	Building - 1	Concrete F	Concrete R	Diesel
2	Building - 1	Concrete F	Excavator	Diesel
2	Building - 1	Concrete F	Fork Truck	Diesel
2	Building - 1	Concrete F	Tool Truck	Diesel
2	Building - 1	Concrete F	Tractor Tra	Diesel
2	Building - 1	Constructic	Survey Cre	Diesel
2	Building - 1	Constructic	Tractor Tra	Diesel
2	Building - 1	Exterior W	Fork Truck	Diesel
2	Building - 1	Exterior W	Generator	Diesel
2	Building - 1	Exterior W	Grout Mixe	Diesel
2	Building - 1	Exterior W	Grout Whe	Diesel
2	Building - 1	Exterior W	Man Lift	Diesel
2	Building - 1	Exterior W	Tool Truck	Diesel
2	Building - 1	Exterior W	Tractor Tra	Diesel
2	Building - 1	Exterior W	Truck Towe	Diesel
2	Building - 1	Interior Bu	Fork Truck	Diesel
2	Building - 1	Interior Bu	Man Lift	Diesel
2	Building - 1	Interior Bu	Tool Truck	Diesel
2	Building - 1	Interior Bu	Tractor Tra	Diesel
2	Building - 1	Roofing	High Lift	Diesel
2	Building - 1	Roofing	Man Lift	Diesel
2	Building - 1	Roofing	Material De	Diesel
2	Building - 1	Roofing	Tractor Tra	Diesel
2	Building - 1	Roofing	Truck Towe	Diesel
2	Building - 1	Security &	High Lift	Diesel
2	Building - 1	Security &	Tool Truck	Diesel
2	Building - 1	Structural S	90 Ton Cra	Diesel
2	Building - 1	Structural S	Concrete P	Diesel
2	Building - 1	Structural S	Concrete T	Diesel
2	Building - 1	Structural S	Fork Truck	Diesel
2	Building - 1	Structural S	Tool Truck	Diesel
2	Building - 1	Structural S	Tractor Tra	Diesel
2	Building - 1	Structural S	Trowel Ma	Diesel
2	Building - 1	Structural S	Truck Towe	Diesel
2	Cargo Apro	Clearing an	Chain Saw	Diesel
2	Cargo Apro	Clearing an	Chipper/St	Diesel
2	Cargo Apro	Clearing an	Pickup Truc	Diesel
2	Cargo Apro	Concrete P	Air Compre	Diesel
2	Cargo Apro	Concrete P	Concrete S	Diesel
2	Cargo Apro	Concrete P	Concrete T	Diesel
2	Cargo Apro	Concrete P	Other Gen	Diesel
2	Cargo Apro	Concrete P	Pickup Truc	Diesel
2	Cargo Apro	Concrete P	Rubber Tir	Diesel
2	Cargo Apro	Concrete P	Slip Form P	Diesel
2	Cargo Apro	Concrete P	Surfacing E	Diesel
2	Cargo Apro	Drainage -	Dozer	Diesel
2	Cargo Apro	Drainage -	Dump Truc	Diesel
2	Cargo Apro	Drainage -	Excavator	Diesel
2	Cargo Apro	Drainage -	Loader	Diesel
2	Cargo Apro	Drainage -	Other Gen	Diesel
2	Cargo Apro	Drainage -	Pickup Truc	Diesel
2	Cargo Apro	Drainage -	Roller	Diesel
2	Cargo Apro	Drainage -	Dump Truc	Diesel
2	Cargo Apro	Drainage -	Loader	Diesel
2	Cargo Apro	Drainage -	Other Gen	Diesel
2	Cargo Apro	Drainage -	Pickup Truc	Diesel
2	Cargo Apro	Drainage -	Tractors/Lc	Diesel
2	Cargo Apro	Dust Contr	Water Truc	Diesel
2	Cargo Apro	Excavation	Dozer	Diesel
2	Cargo Apro	Excavation	Dump Truc	Diesel
2	Cargo Apro	Excavation	Pickup Truc	Diesel
2	Cargo Apro	Excavation	Roller	Diesel
2	Cargo Apro	Excavation	Dozer	Diesel
2	Cargo Apro	Excavation	Dump Truc	Diesel
2	Cargo Apro	Excavation	Excavator	Diesel
2	Cargo Apro	Excavation	Pickup Truc	Diesel
2	Cargo Apro	Excavation	Roller	Diesel
2	Cargo Apro	Excavation	Scraper	Diesel

ACEIT Input - Modified Asphalt Application Rates

2	Cargo Apro	Excavation	Dozer	Diesel
2	Cargo Apro	Fencing	Concrete T	Diesel
2	Cargo Apro	Fencing	Dump Truc	Diesel
2	Cargo Apro	Fencing	Other Gen	Diesel
2	Cargo Apro	Fencing	Pickup Tru	Diesel
2	Cargo Apro	Fencing	Skid Steer l	Diesel
2	Cargo Apro	Fencing	Tractors/Lo	Diesel
2	Cargo Apro	Grading	Dozer	Diesel
2	Cargo Apro	Grading	Grader	Diesel
2	Cargo Apro	Grading	Roller	Diesel
2	Cargo Apro	Hydroseed	Hydroseed	Diesel
2	Cargo Apro	Hydroseed	Off-Road T	Diesel
2	Cargo Apro	Lighting	Dump Truc	Diesel
2	Cargo Apro	Lighting	Loader	Diesel
2	Cargo Apro	Lighting	Other Gen	Diesel
2	Cargo Apro	Lighting	Pickup Tru	Diesel
2	Cargo Apro	Lighting	Skid Steer l	Diesel
2	Cargo Apro	Lighting	Tractors/Lo	Diesel
2	Cargo Apro	Markings	Flatbed Tru	Diesel
2	Cargo Apro	Markings	Other Gen	Diesel
2	Cargo Apro	Markings	Pickup Tru	Diesel
2	Cargo Apro	Sealing/Fu	Distributing	Diesel
2	Cargo Apro	Sealing/Fu	Other Gen	Diesel
2	Cargo Apro	Sealing/Fu	Pickup Tru	Diesel
2	Cargo Apro	Soil Erosior	Other Gen	Diesel
2	Cargo Apro	Soil Erosior	Pickup Tru	Diesel
2	Cargo Apro	Soil Erosior	Pumps	Diesel
2	Cargo Apro	Soil Erosior	Tractors/Lo	Diesel
2	Cargo Apro	Subbase Pl	Dozer	Diesel
2	Cargo Apro	Subbase Pl	Dump Truc	Diesel
2	Cargo Apro	Subbase Pl	Pickup Tru	Diesel
2	Cargo Apro	Subbase Pl	Roller	Diesel
2	Cargo Apro	Topsoil Pla	Dozer	Diesel
2	Cargo Apro	Topsoil Pla	Dump Truc	Diesel
2	Cargo Apro	Topsoil Pla	Pickup Tru	Diesel
2	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel
2	Parking Lot	Asphalt Pla	Dump Truc	Diesel
2	Parking Lot	Asphalt Pla	Other Gen	Diesel
2	Parking Lot	Asphalt Pla	Pickup Tru	Diesel
2	Parking Lot	Asphalt Pla	Roller	Diesel
2	Parking Lot	Asphalt Pla	Skid Steer l	Diesel
2	Parking Lot	Asphalt Pla	Surfacing E	Diesel
2	Parking Lot	Clearing an	Chain Saw	Diesel
2	Parking Lot	Clearing an	Chipper/St	Diesel
2	Parking Lot	Clearing an	Pickup Tru	Diesel
2	Parking Lot	Curbing	Concrete T	Diesel
2	Parking Lot	Curbing	Curb/Gutte	Diesel
2	Parking Lot	Curbing	Other Gen	Diesel
2	Parking Lot	Curbing	Pickup Tru	Diesel
2	Parking Lot	Drainage -	Dozer	Diesel
2	Parking Lot	Drainage -	Dump Truc	Diesel
2	Parking Lot	Drainage -	Excavator	Diesel
2	Parking Lot	Drainage -	Loader	Diesel
2	Parking Lot	Drainage -	Other Gen	Diesel
2	Parking Lot	Drainage -	Pickup Tru	Diesel
2	Parking Lot	Drainage -	Dump Truc	Diesel
2	Parking Lot	Drainage -	Loader	Diesel
2	Parking Lot	Drainage -	Other Gen	Diesel
2	Parking Lot	Drainage -	Pickup Tru	Diesel
2	Parking Lot	Drainage -	Tractors/Lo	Diesel
2	Parking Lot	Excavation	Dozer	Diesel
2	Parking Lot	Excavation	Dump Truc	Diesel
2	Parking Lot	Excavation	Pickup Tru	Diesel
2	Parking Lot	Excavation	Roller	Diesel
2	Parking Lot	Excavation	Dozer	Diesel
2	Parking Lot	Excavation	Dump Truc	Diesel
2	Parking Lot	Excavation	Excavator	Diesel
2	Parking Lot	Excavation	Pickup Tru	Diesel
2	Parking Lot	Excavation	Roller	Diesel
2	Parking Lot	Excavation	Scraper	Diesel
2	Parking Lot	Excavation	Dozer	Diesel
2	Parking Lot	Fencing	Concrete T	Diesel
2	Parking Lot	Fencing	Dump Truc	Diesel
2	Parking Lot	Fencing	Other Gen	Diesel
2	Parking Lot	Fencing	Pickup Tru	Diesel
2	Parking Lot	Fencing	Skid Steer l	Diesel
2	Parking Lot	Fencing	Tractors/Lo	Diesel
2	Parking Lot	Grading	Dozer	Diesel
2	Parking Lot	Grading	Grader	Diesel
2	Parking Lot	Grading	Roller	Diesel
2	Parking Lot	Hydroseed	Hydroseed	Diesel
2	Parking Lot	Hydroseed	Off-Road T	Diesel
2	Parking Lot	Markings	Flatbed Tru	Diesel
2	Parking Lot	Markings	Other Gen	Diesel
2	Parking Lot	Markings	Pickup Tru	Diesel
2	Parking Lot	Sidewalks	Concrete T	Diesel
2	Parking Lot	Sidewalks	Dump Truc	Diesel
2	Parking Lot	Sidewalks	Pickup Tru	Diesel
2	Parking Lot	Sidewalks	Tractors/Lo	Diesel
2	Parking Lot	Sidewalks	Vibratory C	Diesel
2	Parking Lot	Soil Erosior	Other Gen	Diesel
2	Parking Lot	Soil Erosior	Pickup Tru	Diesel
2	Parking Lot	Soil Erosior	Pumps	Diesel
2	Parking Lot	Soil Erosior	Tractors/Lo	Diesel
2	Parking Lot	Street Ligh	Dump Truc	Diesel
2	Parking Lot	Street Ligh	Loader	Diesel
2	Parking Lot	Street Ligh	Other Gen	Diesel
2	Parking Lot	Street Ligh	Pickup Tru	Diesel
2	Parking Lot	Street Ligh	Skid Steer l	Diesel
2	Parking Lot	Street Ligh	Tractors/Lo	Diesel
2	Parking Lot	Subbase Pl	Dozer	Diesel
2	Parking Lot	Subbase Pl	Dump Truc	Diesel
2	Parking Lot	Subbase Pl	Pickup Tru	Diesel
2	Parking Lot	Subbase Pl	Roller	Diesel
2	Parking Lot	Topsoil Pla	Dozer	Diesel
2	Parking Lot	Topsoil Pla	Dump Truc	Diesel
2	Parking Lot	Topsoil Pla	Pickup Tru	Diesel
2	Parking Lot	Tree Planti	Flatbed Tru	Diesel
2	Parking Lot	Tree Planti	Other Gen	Diesel
2	Parking Lot	Tree Planti	Pickup Tru	Diesel
2	Parking Lot	Tree Planti	Tractors/Lo	Diesel
3	Building - 1	Concrete F	Backhoe	Diesel
3	Building - 1	Concrete F	Concrete P	Diesel
3	Building - 1	Concrete F	Concrete R	Diesel
3	Building - 1	Concrete F	Excavator	Diesel
3	Building - 1	Concrete F	Fork Truck	Diesel
3	Building - 1	Concrete F	Tool Truck	Diesel
3	Building - 1	Concrete F	Tractor Tra	Diesel
3	Building - 1	Constructic	Survey Cre	Diesel
3	Building - 1	Constructic	Tractor Tra	Diesel
3	Building - 1	Exterior W	Fork Truck	Diesel
3	Building - 1	Exterior W	Generator	Diesel
3	Building - 1	Exterior W	Grout Mixe	Diesel
3	Building - 1	Exterior W	Grout Whe	Diesel
3	Building - 1	Exterior W	Man Lift	Diesel
3	Building - 1	Exterior W	Tool Truck	Diesel
3	Building - 1	Exterior W	Tractor Tra	Diesel
3	Building - 1	Exterior W	Truck Towe	Diesel
3	Building - 1	Interior Bu	Fork Truck	Diesel
3	Building - 1	Interior Bu	Man Lift	Diesel
3	Building - 1	Interior Bu	Tool Truck	Diesel
3	Building - 1	Interior Bu	Tractor Tra	Diesel
3	Building - 1	Roofing	High Lift	Diesel
3	Building - 1	Roofing	Man Lift	Diesel
3	Building - 1	Roofing	Material De	Diesel
3	Building - 1	Roofing	Tractor Tra	Diesel
3	Building - 1	Roofing	Truck Towe	Diesel
3	Building - 1	Security &	High Lift	Diesel
3	Building - 1	Security &	Tool Truck	Diesel
3	Building - 1	Structural S	90 Ton Cra	Diesel
3	Building - 1	Structural S	Concrete P	Diesel
3	Building - 1	Structural S	Concrete T	Diesel
3	Building - 1	Structural S	Fork Truck	Diesel
3	Building - 1	Structural S	Tool Truck	Diesel
3	Building - 1	Structural S	Tractor Tra	Diesel
3	Building - 1	Structural S	Trowel Ma	Diesel
3	Building - 1	Structural S	Truck Towe	Diesel
3	Cargo Apro	Clearing an	Chain Saw	Diesel
3	Cargo Apro	Clearing an	Chipper/St	Diesel
3	Cargo Apro	Clearing an	Pickup Tru	Diesel
3	Cargo Apro	Concrete P	Air Compre	Diesel
3	Cargo Apro	Concrete P	Concrete S	Diesel
3	Cargo Apro	Concrete P	Concrete T	Diesel
3	Cargo Apro	Concrete P	Other Gen	Diesel
3	Cargo Apro	Concrete P	Pickup Tru	Diesel
3	Cargo Apro	Concrete P	Rubber Tir	Diesel
3	Cargo Apro	Concrete P	Slip Form P	Diesel
3	Cargo Apro	Concrete P	Surfacing E	Diesel
3	Cargo Apro	Drainage -	Dozer	Diesel
3	Cargo Apro	Drainage -	Dump Truc	Diesel
3	Cargo Apro	Drainage -	Excavator	Diesel
3	Cargo Apro	Drainage -	Loader	Diesel
3	Cargo Apro	Drainage -	Other Gen	Diesel
3	Cargo Apro	Drainage -	Pickup Tru	Diesel
3	Cargo Apro	Drainage -	Roller	Diesel
3	Cargo Apro	Drainage -	Dump Truc	Diesel
3	Cargo Apro	Drainage -	Loader	Diesel
3	Cargo Apro	Drainage -	Other Gen	Diesel
3	Cargo Apro	Drainage -	Pickup Tru	Diesel
3	Cargo Apro	Drainage -	Tractors/Lo	Diesel
3	Cargo Apro	Dust Contr	Water Truc	Diesel

ACEIT Input - Modified Asphalt Application Rates

3	Cargo Apro	Excavation	Dozer	Diesel
3	Cargo Apro	Excavation	Dump Truc	Diesel
3	Cargo Apro	Excavation	Pickup Truc	Diesel
3	Cargo Apro	Excavation	Roller	Diesel
3	Cargo Apro	Excavation	Dozer	Diesel
3	Cargo Apro	Excavation	Dump Truc	Diesel
3	Cargo Apro	Excavation	Excavator	Diesel
3	Cargo Apro	Excavation	Pickup Truc	Diesel
3	Cargo Apro	Excavation	Roller	Diesel
3	Cargo Apro	Excavation	Scraper	Diesel
3	Cargo Apro	Excavation	Dozer	Diesel
3	Cargo Apro	Fencing	Concrete T	Diesel
3	Cargo Apro	Fencing	Dump Truc	Diesel
3	Cargo Apro	Fencing	Other Gen	Diesel
3	Cargo Apro	Fencing	Pickup Truc	Diesel
3	Cargo Apro	Fencing	Skid Steer l	Diesel
3	Cargo Apro	Fencing	Tractors/Lc	Diesel
3	Cargo Apro	Grading	Dozer	Diesel
3	Cargo Apro	Grading	Grader	Diesel
3	Cargo Apro	Grading	Roller	Diesel
3	Cargo Apro	Hydroseed	Hydroseed	Diesel
3	Cargo Apro	Hydroseed	Off-Road T	Diesel
3	Cargo Apro	Lighting	Dump Truc	Diesel
3	Cargo Apro	Lighting	Loader	Diesel
3	Cargo Apro	Lighting	Other Gen	Diesel
3	Cargo Apro	Lighting	Pickup Truc	Diesel
3	Cargo Apro	Lighting	Skid Steer l	Diesel
3	Cargo Apro	Lighting	Tractors/Lc	Diesel
3	Cargo Apro	Markings	Flatbed Tru	Diesel
3	Cargo Apro	Markings	Other Gen	Diesel
3	Cargo Apro	Markings	Pickup Truc	Diesel
3	Cargo Apro	Sealing/Fu	Distributin	Diesel
3	Cargo Apro	Sealing/Fu	Other Gen	Diesel
3	Cargo Apro	Sealing/Fu	Pickup Truc	Diesel
3	Cargo Apro	Soil Erosior	Other Gen	Diesel
3	Cargo Apro	Soil Erosior	Pickup Truc	Diesel
3	Cargo Apro	Soil Erosior	Pumps	Diesel
3	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel
3	Cargo Apro	Subbase Pl	Dozer	Diesel
3	Cargo Apro	Subbase Pl	Dump Truc	Diesel
3	Cargo Apro	Subbase Pl	Pickup Truc	Diesel
3	Cargo Apro	Subbase Pl	Roller	Diesel
3	Cargo Apro	Topsoil Pla	Dozer	Diesel
3	Cargo Apro	Topsoil Pla	Dump Truc	Diesel
3	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel
3	Drainage S	Drainage -	Dozer	Diesel
3	Drainage S	Drainage -	Dump Truc	Diesel
3	Drainage S	Drainage -	Excavator	Diesel
3	Drainage S	Drainage -	Loader	Diesel
3	Drainage S	Drainage -	Other Gen	Diesel
3	Drainage S	Drainage -	Pickup Truc	Diesel
3	Drainage S	Drainage -	Roller	Diesel
3	Drainage S	Drainage -	Dozer	Diesel
3	Drainage S	Drainage -	Dump Truc	Diesel
3	Drainage S	Drainage -	Excavator	Diesel
3	Drainage S	Drainage -	Loader	Diesel
3	Drainage S	Drainage -	Other Gen	Diesel
3	Drainage S	Drainage -	Pickup Truc	Diesel
3	Drainage S	Drainage -	Roller	Diesel
3	Drainage S	Drainage S	Dump Truc	Diesel
3	Drainage S	Drainage S	Excavator	Diesel
3	Drainage S	Drainage S	Other Gen	Diesel
3	Drainage S	Drainage S	Pickup Truc	Diesel
3	Drainage S	Hydroseed	Hydroseed	Diesel
3	Drainage S	Hydroseed	Off-Road T	Diesel
3	Drainage S	Soil Erosior	Other Gen	Diesel
3	Drainage S	Soil Erosior	Pickup Truc	Diesel
3	Drainage S	Soil Erosior	Pumps	Diesel
3	Drainage S	Soil Erosior	Tractors/Lc	Diesel
3	Drainage S	Topsoil Pla	Dozer	Diesel
3	Drainage S	Topsoil Pla	Dump Truc	Diesel
3	Drainage S	Topsoil Pla	Pickup Truc	Diesel
3	Fuel Tanks	Clearing an	Chain Saw	Diesel
3	Fuel Tanks	Clearing an	Chipper/St	Diesel
3	Fuel Tanks	Clearing an	Pickup Truc	Diesel
3	Fuel Tanks	Concrete P	Air Compre	Diesel
3	Fuel Tanks	Concrete P	Concrete S	Diesel
3	Fuel Tanks	Concrete P	Concrete T	Diesel
3	Fuel Tanks	Concrete P	Other Gen	Diesel
3	Fuel Tanks	Concrete P	Pickup Truc	Diesel
3	Fuel Tanks	Concrete P	Rubber Tir	Diesel
3	Fuel Tanks	Concrete P	Slip Form P	Diesel
3	Fuel Tanks	Concrete P	Surfacing E	Diesel
3	Fuel Tanks	Constructic	Crane	Diesel
3	Fuel Tanks	Constructic	Other Gen	Diesel
3	Fuel Tanks	Constructic	Pickup Truc	Diesel
3	Fuel Tanks	Drainage -	Excavator	Diesel
3	Fuel Tanks	Drainage	Dozer	Diesel
3	Fuel Tanks	Drainage	Dump Truc	Diesel
3	Fuel Tanks	Drainage	Loader	Diesel
3	Fuel Tanks	Drainage	Other Gen	Diesel
3	Fuel Tanks	Drainage	Pickup Truc	Diesel
3	Fuel Tanks	Drainage	Roller	Diesel
3	Fuel Tanks	Dust Contr	Water Truc	Diesel
3	Fuel Tanks	Excavation	Dozer	Diesel
3	Fuel Tanks	Excavation	Dump Truc	Diesel
3	Fuel Tanks	Excavation	Pickup Truc	Diesel
3	Fuel Tanks	Excavation	Roller	Diesel
3	Fuel Tanks	Excavation	Dozer	Diesel
3	Fuel Tanks	Excavation	Dump Truc	Diesel
3	Fuel Tanks	Excavation	Excavator	Diesel
3	Fuel Tanks	Excavation	Pickup Truc	Diesel
3	Fuel Tanks	Excavation	Roller	Diesel
3	Fuel Tanks	Excavation	Scraper	Diesel
3	Fuel Tanks	Excavation	Dozer	Diesel
3	Fuel Tanks	Fencing	Concrete T	Diesel
3	Fuel Tanks	Fencing	Dump Truc	Diesel
3	Fuel Tanks	Fencing	Other Gen	Diesel
3	Fuel Tanks	Fencing	Pickup Truc	Diesel
3	Fuel Tanks	Fencing	Skid Steer l	Diesel
3	Fuel Tanks	Fencing	Tractors/Lc	Diesel
3	Fuel Tanks	Grading	Dozer	Diesel
3	Fuel Tanks	Grading	Grader	Diesel
3	Fuel Tanks	Grading	Roller	Diesel
3	Fuel Tanks	Hydroseed	Hydroseed	Diesel
3	Fuel Tanks	Hydroseed	Off-Road T	Diesel
3	Fuel Tanks	Markings	Flatbed Tru	Diesel
3	Fuel Tanks	Markings	Other Gen	Diesel
3	Fuel Tanks	Markings	Pickup Truc	Diesel
3	Fuel Tanks	Soil Erosior	Other Gen	Diesel
3	Fuel Tanks	Soil Erosior	Pickup Truc	Diesel
3	Fuel Tanks	Soil Erosior	Pumps	Diesel
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel
3	Fuel Tanks	Street Ligh	Dump Truc	Diesel
3	Fuel Tanks	Street Ligh	Loader	Diesel
3	Fuel Tanks	Street Ligh	Other Gen	Diesel
3	Fuel Tanks	Street Ligh	Pickup Truc	Diesel
3	Fuel Tanks	Street Ligh	Skid Steer l	Diesel
3	Fuel Tanks	Street Ligh	Tractors/Lc	Diesel
3	Fuel Tanks	Subbase Pl	Dozer	Diesel
3	Fuel Tanks	Subbase Pl	Dump Truc	Diesel
3	Fuel Tanks	Subbase Pl	Pickup Truc	Diesel
3	Fuel Tanks	Subbase Pl	Roller	Diesel
3	Fuel Tanks	Topsoil Pla	Dozer	Diesel
3	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel
3	Fuel Tanks	Topsoil Pla	Pickup Truc	Diesel
3	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel
3	Parking Lot	Asphalt Pla	Dump Truc	Diesel
3	Parking Lot	Asphalt Pla	Other Gen	Diesel
3	Parking Lot	Asphalt Pla	Pickup Truc	Diesel
3	Parking Lot	Asphalt Pla	Roller	Diesel
3	Parking Lot	Asphalt Pla	Skid Steer l	Diesel
3	Parking Lot	Asphalt Pla	Surfacing E	Diesel
3	Parking Lot	Clearing an	Chain Saw	Diesel
3	Parking Lot	Clearing an	Chipper/St	Diesel
3	Parking Lot	Clearing an	Pickup Truc	Diesel
3	Parking Lot	Curbing	Concrete T	Diesel
3	Parking Lot	Curbing	Curb/Gutte	Diesel
3	Parking Lot	Curbing	Other Gen	Diesel
3	Parking Lot	Curbing	Pickup Truc	Diesel
3	Parking Lot	Drainage -	Dozer	Diesel
3	Parking Lot	Drainage -	Dump Truc	Diesel
3	Parking Lot	Drainage -	Excavator	Diesel
3	Parking Lot	Drainage -	Loader	Diesel
3	Parking Lot	Drainage -	Other Gen	Diesel
3	Parking Lot	Drainage -	Pickup Truc	Diesel
3	Parking Lot	Drainage -	Roller	Diesel
3	Parking Lot	Drainage -	Dump Truc	Diesel
3	Parking Lot	Drainage -	Loader	Diesel
3	Parking Lot	Drainage -	Other Gen	Diesel
3	Parking Lot	Drainage -	Pickup Truc	Diesel
3	Parking Lot	Drainage -	Tractors/Lc	Diesel
3	Parking Lot	Excavation	Dozer	Diesel
3	Parking Lot	Excavation	Dump Truc	Diesel
3	Parking Lot	Excavation	Pickup Truc	Diesel
3	Parking Lot	Excavation	Roller	Diesel
3	Parking Lot	Excavation	Dozer	Diesel
3	Parking Lot	Excavation	Dump Truc	Diesel
3	Parking Lot	Excavation	Excavator	Diesel
3	Parking Lot	Excavation	Pickup Truc	Diesel
3	Parking Lot	Excavation	Roller	Diesel
3	Parking Lot	Excavation	Scraper	Diesel

ACEIT Input - Modified Asphalt Application Rates

3	Parking Lot	Excavation	Dozer	Diesel
3	Parking Lot	Fencing	Concrete T	Diesel
3	Parking Lot	Fencing	Dump Truc	Diesel
3	Parking Lot	Fencing	Other Gen	Diesel
3	Parking Lot	Fencing	Pickup Truc	Diesel
3	Parking Lot	Fencing	Skid Steer l	Diesel
3	Parking Lot	Fencing	Tractors/Lc	Diesel
3	Parking Lot	Grading	Dozer	Diesel
3	Parking Lot	Grading	Grader	Diesel
3	Parking Lot	Grading	Roller	Diesel
3	Parking Lot	Hydroseed	Hydroseed	Diesel
3	Parking Lot	Hydroseed	Off-Road T	Diesel
3	Parking Lot	Markings	Flatbed Tru	Diesel
3	Parking Lot	Markings	Other Gen	Diesel
3	Parking Lot	Markings	Pickup Truc	Diesel
3	Parking Lot	Sidewalks	Concrete T	Diesel
3	Parking Lot	Sidewalks	Dump Truc	Diesel
3	Parking Lot	Sidewalks	Pickup Truc	Diesel
3	Parking Lot	Sidewalks	Tractors/Lc	Diesel
3	Parking Lot	Sidewalks	Vibratory C	Diesel
3	Parking Lot	Soil Erosior	Other Gen	Diesel
3	Parking Lot	Soil Erosior	Pickup Truc	Diesel
3	Parking Lot	Soil Erosior	Pumps	Diesel
3	Parking Lot	Soil Erosior	Tractors/Lc	Diesel
3	Parking Lot	Street Ligh	Dump Truc	Diesel
3	Parking Lot	Street Ligh	Loader	Diesel
3	Parking Lot	Street Ligh	Other Gen	Diesel
3	Parking Lot	Street Ligh	Pickup Truc	Diesel
3	Parking Lot	Street Ligh	Skid Steer l	Diesel
3	Parking Lot	Street Ligh	Tractors/Lc	Diesel
3	Parking Lot	Subbase Pl	Dozer	Diesel
3	Parking Lot	Subbase Pl	Dump Truc	Diesel
3	Parking Lot	Subbase Pl	Pickup Truc	Diesel
3	Parking Lot	Subbase Pl	Roller	Diesel
3	Parking Lot	Topsoil Pla	Dozer	Diesel
3	Parking Lot	Topsoil Pla	Dump Truc	Diesel
3	Parking Lot	Topsoil Pla	Pickup Truc	Diesel
3	Parking Lot	Tree Planti	Flatbed Tru	Diesel
3	Parking Lot	Tree Planti	Other Gen	Diesel
3	Parking Lot	Tree Planti	Pickup Truc	Diesel
3	Parking Lot	Tree Planti	Tractors/Lc	Diesel
3	Taxiways	Asphalt Pla	Asphalt Pa	Diesel
3	Taxiways	Asphalt Pla	Dump Truc	Diesel
3	Taxiways	Asphalt Pla	Other Gen	Diesel
3	Taxiways	Asphalt Pla	Pickup Truc	Diesel
3	Taxiways	Asphalt Pla	Roller	Diesel
3	Taxiways	Asphalt Pla	Skid Steer l	Diesel
3	Taxiways	Asphalt Pla	Surfacing E	Diesel
3	Taxiways	Clearing an	Chain Saw	Diesel
3	Taxiways	Clearing an	Chipper/St	Diesel
3	Taxiways	Clearing an	Pickup Truc	Diesel
3	Taxiways	Drainage -	Dozer	Diesel
3	Taxiways	Drainage -	Dump Truc	Diesel
3	Taxiways	Drainage -	Excavator	Diesel
3	Taxiways	Drainage -	Loader	Diesel
3	Taxiways	Drainage -	Other Gen	Diesel
3	Taxiways	Drainage -	Pickup Truc	Diesel
3	Taxiways	Drainage -	Roller	Diesel
3	Taxiways	Drainage -	Dump Truc	Diesel
3	Taxiways	Drainage -	Loader	Diesel
3	Taxiways	Drainage -	Other Gen	Diesel
3	Taxiways	Drainage -	Pickup Truc	Diesel
3	Taxiways	Drainage -	Tractors/Lc	Diesel
3	Taxiways	Dust Contr	Water Truc	Diesel
3	Taxiways	Excavation	Dozer	Diesel
3	Taxiways	Excavation	Dump Truc	Diesel
3	Taxiways	Excavation	Pickup Truc	Diesel
3	Taxiways	Excavation	Roller	Diesel
3	Taxiways	Excavation	Dozer	Diesel
3	Taxiways	Excavation	Dump Truc	Diesel
3	Taxiways	Excavation	Excavator	Diesel
3	Taxiways	Excavation	Pickup Truc	Diesel
3	Taxiways	Excavation	Roller	Diesel
3	Taxiways	Excavation	Scraper	Diesel
3	Taxiways	Excavation	Dozer	Diesel
3	Taxiways	Fencing	Concrete T	Diesel
3	Taxiways	Fencing	Dump Truc	Diesel
3	Taxiways	Fencing	Other Gen	Diesel
3	Taxiways	Fencing	Pickup Truc	Diesel
3	Taxiways	Fencing	Skid Steer l	Diesel
3	Taxiways	Fencing	Tractors/Lc	Diesel
3	Taxiways	Grading	Dozer	Diesel
3	Taxiways	Grading	Grader	Diesel
3	Taxiways	Grading	Roller	Diesel
3	Taxiways	Hydroseed	Hydroseed	Diesel
3	Taxiways	Hydroseed	Off-Road T	Diesel
3	Taxiways	Lighting	Dump Truc	Diesel
3	Taxiways	Lighting	Loader	Diesel
3	Taxiways	Lighting	Other Gen	Diesel
3	Taxiways	Lighting	Pickup Truc	Diesel
3	Taxiways	Lighting	Skid Steer l	Diesel
3	Taxiways	Lighting	Tractors/Lc	Diesel
3	Taxiways	Markings	Flatbed Tru	Diesel
3	Taxiways	Markings	Other Gen	Diesel
3	Taxiways	Markings	Pickup Truc	Diesel
3	Taxiways	Soil Erosior	Other Gen	Diesel
3	Taxiways	Soil Erosior	Pickup Truc	Diesel
3	Taxiways	Soil Erosior	Pumps	Diesel
3	Taxiways	Soil Erosior	Tractors/Lc	Diesel
3	Taxiways	Subbase Pl	Dozer	Diesel
3	Taxiways	Subbase Pl	Dump Truc	Diesel
3	Taxiways	Subbase Pl	Pickup Truc	Diesel
3	Taxiways	Subbase Pl	Roller	Diesel
3	Taxiways	Topsoil Pla	Dozer	Diesel
3	Taxiways	Topsoil Pla	Dump Truc	Diesel
3	Taxiways	Topsoil Pla	Pickup Truc	Diesel

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Overall Size

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Scenario ID	Project	Project Size	User Input	Unit
1	Cargo Apro	What is the	2.67	$ Million(s)
1	Cargo Apro	What is the	428	Feet
1	Cargo Apro	What is the	250	Feet
1	Parking Lot	What is the	0.4	$ Million(s)
1	Parking Lot	What is the	970	Feet
1	Parking Lot	What is the	150	Feet
1	Rehabilitat	What is the	1.5	$ Million(s)
1	Rehabilitat	What is the	3675	Feet
1	Rehabilitat	What is the	250	Feet
2	Building - 1	What is the	12.5	$ Million(s)
2	Cargo Apro	What is the	4	$ Million(s)
2	Cargo Apro	What is the	642	Feet
2	Cargo Apro	What is the	250	Feet
2	Parking Lot	What is the	0.6	$ Million(s)
2	Parking Lot	What is the	1455	Feet
2	Parking Lot	What is the	150	Feet
3	Building - 1	What is the	12.5	$ Million(s)
3	Cargo Apro	What is the	5.33	$ Million(s)
3	Cargo Apro	What is the	855	Feet
3	Cargo Apro	What is the	250	Feet
3	Drainage S	What is the	1.5	$ Million(s)
3	Drainage S	What is the	6	Feet
3	Drainage S	What is the	600	Feet
3	Drainage S	What is the	20	Feet
3	Fuel Tanks	What is the	2	$ Million(s)
3	Fuel Tanks	What is the	4	Feet
3	Fuel Tanks	What is the	415	Feet
3	Fuel Tanks	What is the	100	Feet
3	Fuel Tanks	What is the	5	---
3	Parking Lot	What is the	1	$ Million(s)
3	Parking Lot	What is the	2425	Feet
3	Parking Lot	What is the	150	Feet
3	Taxiways	What is the	2	$ Million(s)
3	Taxiways	What is the	1205	Feet
3	Taxiways	What is the	100	Feet

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Size Detail

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ScenarioID	Project	Constructic	Default Act	Unit	User Activity Size
1	Cargo Apro	Clearing an	2.6	Acres	
1	Cargo Apro	Concrete P	4948.8	Cubic Yards	
1	Cargo Apro	Drainage -	438	Linear Feet	
1	Cargo Apro	Drainage -	876	Linear Feet	
1	Cargo Apro	Dust Contr	60	Days	
1	Cargo Apro	Excavation	4948.8	Cubic Yards	
1	Cargo Apro	Excavation	4948.8	Cubic Yards	
1	Cargo Apro	Excavation	11877	Square Yards	
1	Cargo Apro	Fencing	428	Linear Feet	
1	Cargo Apro	Grading	12640.7	Square Yards	
1	Cargo Apro	Hydroseed	113880	Square Feet	
1	Cargo Apro	Lighting	1356	Linear Feet	
1	Cargo Apro	Markings	107000	Square Feet	
1	Cargo Apro	Sealing/Fu	11877	Square Yards	
1	Cargo Apro	Soil Erosior	2.6	Acres	
1	Cargo Apro	Subbase Pl	11877	Square Yards	
1	Cargo Apro	Subbase Pl	3959	Cubic Yards	
1	Cargo Apro	Topsoil Pla	2106.8	Cubic Yards	
1	Parking Lot	Asphalt Pla	16150.5	Square Yards	

ACEIT Input - Modified Asphalt Application Rates

1	Parking Lot	Clearing an	3.6	Acres
1	Parking Lot	Curbing	970	Linear Feet
1	Parking Lot	Drainage -	980	Linear Feet
1	Parking Lot	Drainage -	5880	Linear Feet
1	Parking Lot	Excavation	6729.4	Cubic Yards
1	Parking Lot	Excavation	6729.4	Cubic Yards
1	Parking Lot	Excavation	16150.5	Square Yards
1	Parking Lot	Fencing	970	Linear Feet
1	Parking Lot	Grading	17404.8	Square Yards
1	Parking Lot	Hydroseed	156800	Square Feet
1	Parking Lot	Markings	2240	Square Feet
1	Parking Lot	Sidewalks	2910	Square Feet
1	Parking Lot	Soil Erosior	3.6	Acres
1	Parking Lot	Street Ligh	3.6	Lights
1	Parking Lot	Subbase Pl	16150.5	Square Yards
1	Parking Lot	Subbase Pl	5383.5	Cubic Yards
1	Parking Lot	Topsoil Pla	2900.8	Cubic Yards
1	Parking Lot	Tree Planti	0	Trees
1	Rehabilitat	Asphalt Pla	101981.3	Square Yards
1	Rehabilitat	Cold Millin	101981.3	Square Yards
1	Rehabilitat	Dust Contr	60	Days
1	Rehabilitat	Excavation	8498.4	Cubic Yards
1	Rehabilitat	Excavation	20396.3	Square Yards
1	Rehabilitat	Grading	21269.8	Square Yards
1	Rehabilitat	Hydroseed	21269.8	Square Feet
1	Rehabilitat	Lighting	7850	Linear Feet
1	Rehabilitat	Markings	918750	Square Feet
1	Rehabilitat	Sealing Rar	3675	Linear Feet
1	Rehabilitat	Soil Erosior	4.4	Acres
1	Rehabilitat	Subbase Pl	101981.3	Square Yards
1	Rehabilitat	Subbase Pl	33993.8	Cubic Yards
1	Rehabilitat	Topsoil Pla	3545	Cubic Yards
2	Cargo Apro	Clearing an	3.9	Acres
2	Cargo Apro	Concrete P	7423.1	Cubic Yards
2	Cargo Apro	Drainage -	652	Linear Feet
2	Cargo Apro	Drainage -	1304	Linear Feet
2	Cargo Apro	Dust Contr	90	Days
2	Cargo Apro	Excavation	7423.1	Cubic Yards
2	Cargo Apro	Excavation	7423.1	Cubic Yards
2	Cargo Apro	Excavation	17815.5	Square Yards
2	Cargo Apro	Fencing	642	Linear Feet
2	Cargo Apro	Grading	18816.7	Square Yards
2	Cargo Apro	Hydroseed	169520	Square Feet
2	Cargo Apro	Lighting	1784	Linear Feet
2	Cargo Apro	Markings	160500	Square Feet
2	Cargo Apro	Sealing/Fu	17815.5	Square Yards
2	Cargo Apro	Soil Erosior	3.9	Acres
2	Cargo Apro	Subbase Pl	17815.5	Square Yards
2	Cargo Apro	Subbase Pl	5938.5	Cubic Yards
2	Cargo Apro	Topsoil Pla	3136.1	Cubic Yards
2	Parking Lot	Asphalt Pla	24225.8	Square Yards
2	Parking Lot	Clearing an	5.4	Acres
2	Parking Lot	Curbing	1455	Linear Feet
2	Parking Lot	Drainage -	1465	Linear Feet
2	Parking Lot	Drainage -	8790	Linear Feet
2	Parking Lot	Excavation	10094.1	Cubic Yards
2	Parking Lot	Excavation	10094.1	Cubic Yards
2	Parking Lot	Excavation	24225.8	Square Yards
2	Parking Lot	Fencing	1455	Linear Feet
2	Parking Lot	Grading	26018.4	Square Yards
2	Parking Lot	Hydroseed	234400	Square Feet
2	Parking Lot	Markings	3210	Square Feet
2	Parking Lot	Sidewalks	4365	Square Feet
2	Parking Lot	Soil Erosior	5.4	Acres
2	Parking Lot	Street Ligh	5.5	Lights
2	Parking Lot	Subbase Pl	24225.8	Square Yards
2	Parking Lot	Subbase Pl	8075.3	Cubic Yards
2	Parking Lot	Topsoil Pla	4336.4	Cubic Yards
2	Parking Lot	Tree Planti	0	Trees
3	Cargo Apro	Clearing an	5.2	Acres
3	Cargo Apro	Concrete P	9885.9	Cubic Yards
3	Cargo Apro	Drainage -	865	Linear Feet
3	Cargo Apro	Drainage -	1730	Linear Feet
3	Cargo Apro	Dust Contr	180	Days
3	Cargo Apro	Excavation	9885.9	Cubic Yards
3	Cargo Apro	Excavation	9885.9	Cubic Yards
3	Cargo Apro	Excavation	23726.3	Square Yards
3	Cargo Apro	Fencing	855	Linear Feet
3	Cargo Apro	Grading	24963.9	Square Yards
3	Cargo Apro	Hydroseed	224900	Square Feet
3	Cargo Apro	Lighting	2210	Linear Feet
3	Cargo Apro	Markings	213750	Square Feet
3	Cargo Apro	Sealing/Fu	23726.3	Square Yards
3	Cargo Apro	Soil Erosior	5.2	Acres
3	Cargo Apro	Subbase Pl	23726.3	Square Yards
3	Cargo Apro	Subbase Pl	7908.8	Cubic Yards
3	Cargo Apro	Topsoil Pla	4160.7	Cubic Yards
3	Drainage S	Drainage -	600	Linear Feet
3	Drainage S	Drainage -	600	Linear Feet
3	Drainage S	Drainage S	1.2	Units
3	Drainage S	Hydroseed	12200	Square Feet
3	Drainage S	Soil Erosior	0.3	Acres
3	Drainage S	Topsoil Pla	225.7	Cubic Yards
3	Fuel Tanks	Clearing an	1.1	Acres
3	Fuel Tanks	Concrete P	1919.4	Cubic Yards
3	Fuel Tanks	Constructio	5	Tank
3	Fuel Tanks	Drainage -	425	Linear Feet
3	Fuel Tanks	Drainage	425	Linear Feet
3	Fuel Tanks	Dust Contr	180	Days
3	Fuel Tanks	Excavation	6142	Cubic Yards
3	Fuel Tanks	Excavation	6142	Cubic Yards
3	Fuel Tanks	Excavation	4606.5	Square Yards
3	Fuel Tanks	Fencing	415	Linear Feet
3	Fuel Tanks	Grading	5189.3	Square Yards
3	Fuel Tanks	Hydroseed	46750	Square Feet
3	Fuel Tanks	Markings	41500	Square Feet
3	Fuel Tanks	Soil Erosior	1.1	Acres
3	Fuel Tanks	Street Ligh	1	Lights
3	Fuel Tanks	Subbase Pl	4606.5	Square Yards
3	Fuel Tanks	Subbase Pl	1535.5	Cubic Yards
3	Fuel Tanks	Topsoil Pla	1729.8	Cubic Yards
3	Parking Lot	Asphalt Pla	40376.3	Square Yards
3	Parking Lot	Clearing an	9	Acres
3	Parking Lot	Curbing	2425	Linear Feet
3	Parking Lot	Drainage -	2435	Linear Feet
3	Parking Lot	Drainage -	14610	Linear Feet
3	Parking Lot	Excavation	16823.4	Cubic Yards
3	Parking Lot	Excavation	16823.4	Cubic Yards
3	Parking Lot	Excavation	40376.3	Square Yards
3	Parking Lot	Fencing	2425	Linear Feet
3	Parking Lot	Grading	43245.6	Square Yards
3	Parking Lot	Hydroseed	389600	Square Feet
3	Parking Lot	Markings	5150	Square Feet
3	Parking Lot	Sidewalks	7275	Square Feet
3	Parking Lot	Soil Erosior	9	Acres
3	Parking Lot	Street Ligh	9.1	Lights
3	Parking Lot	Subbase Pl	40376.3	Square Yards
3	Parking Lot	Subbase Pl	13458.8	Cubic Yards
3	Parking Lot	Topsoil Pla	7207.6	Cubic Yards
3	Parking Lot	Tree Planti	5	Trees
3	Taxiways	Asphalt Pla	13375.5	Square Yards
3	Taxiways	Clearing an	3.1	Acres
3	Taxiways	Drainage -	1215	Linear Feet
3	Taxiways	Drainage -	2430	Linear Feet
3	Taxiways	Dust Contr	180	Days
3	Taxiways	Excavation	5573.1	Cubic Yards
3	Taxiways	Excavation	5573.1	Cubic Yards
3	Taxiways	Excavation	13375.5	Square Yards
3	Taxiways	Fencing	1205	Linear Feet
3	Taxiways	Grading	14835.2	Square Yards
3	Taxiways	Hydroseed	133650	Square Feet
3	Taxiways	Lighting	2610	Linear Feet
3	Taxiways	Markings	120500	Square Feet
3	Taxiways	Soil Erosior	3.1	Acres
3	Taxiways	Subbase Pl	13375.5	Square Yards
3	Taxiways	Subbase Pl	4458.5	Cubic Yards
3	Taxiways	Topsoil Pla	2472.5	Cubic Yards

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Activity: Non-Road

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Scenario ID	Project	Constructic	Equipment	Fuel Type	Activity Siz	Activity Ra	Default Act	Activity Un	User Activity Data
1	Cargo Apro	Clearing an	Chain Saw	Diesel	2.60 Acre	12 Hours p	31.2	hours	
1	Cargo Apro	Clearing an	Chipper/St	Diesel	2.60 Acre	12 Hours p	31.2	hours	
1	Cargo Apro	Clearing an	Pickup Truc	Diesel	2.60 Acre	16 Hours p	41.6	hours	
1	Cargo Apro	Concrete P	Air Compre	Diesel	4948.80 CY	8 Hours pe	39.5904	hours	
1	Cargo Apro	Concrete P	Concrete S	Diesel	4948.80 CY	8 Hours pe	39.5904	hours	
1	Cargo Apro	Concrete P	Concrete T	Diesel	4948.80 CY	8 Hours pe	164.96	hours	
1	Cargo Apro	Concrete P	Other Gen	Diesel	4948.80 CY	16 Hours p	79.1808	hours	
1	Cargo Apro	Concrete P	Pickup Truc	Diesel	4948.80 CY	24 Hours p	118.7712	hours	
1	Cargo Apro	Concrete P	Rubber Tir	Diesel	4948.80 CY	8 Hours pe	39.5904	hours	
1	Cargo Apro	Concrete P	Slip Form P	Diesel	4948.80 CY	8 Hours pe	39.5904	hours	
1	Cargo Apro	Concrete P	Surfacing E	Diesel	4948.80 CY	8 Hours pe	39.5904	hours	
1	Cargo Apro	Drainage -	Dozer	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Excavator	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Loader	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Other Gen	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Roller	Diesel	438.00 LF	8 Hours pe	14.016	hours	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	876.00 LF	8 Hours pe	7.786667	hours	

ACEIT Input - Modified Asphalt Application Rates

1	Cargo Apro	Drainage -	Loader	Diesel	876.00	LF	8 Hours pe	7.786667	hours
1	Cargo Apro	Drainage -	Other Gen	Diesel	876.00	LF	8 Hours pe	7.786667	hours
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	876.00	LF	8 Hours pe	7.786667	hours
1	Cargo Apro	Drainage -	Tractors/Lc	Diesel	876.00	LF	8 Hours pe	7.786667	hours
1	Cargo Apro	Dust Contr	Water Truc	Diesel	60.00	Day	8 Hours pe	480	hours
1	Cargo Apro	Excavation	Dozer	Diesel	4948.80	CY	8 Hours pe	65.984	hours
1	Cargo Apro	Excavation	Dump Truc	Diesel	4948.80	CY	8 Hours pe	65.984	hours
1	Cargo Apro	Excavation	Pickup Truc	Diesel	4948.80	CY	8 Hours pe	65.984	hours
1	Cargo Apro	Excavation	Roller	Diesel	4948.80	CY	8 Hours pe	30.45415	hours
1	Cargo Apro	Excavation	Dozer	Diesel	4948.80	CY	8 Hours pe	49.488	hours
1	Cargo Apro	Excavation	Dump Truc	Diesel	4948.80	CY	8 Hours pe	131.968	hours
1	Cargo Apro	Excavation	Excavator	Diesel	4948.80	CY	8 Hours pe	39.5904	hours
1	Cargo Apro	Excavation	Pickup Truc	Diesel	4948.80	CY	8 Hours pe	39.5904	hours
1	Cargo Apro	Excavation	Roller	Diesel	4948.80	CY	8 Hours pe	39.5904	hours
1	Cargo Apro	Excavation	Scraper	Diesel	4948.80	CY	8 Hours pe	49.488	hours
1	Cargo Apro	Excavation	Dozer	Diesel	11877.00	S	8 Hours pe	18.63059	hours
1	Cargo Apro	Fencing	Concrete T	Diesel	428.00	LF	2 Hours pe	4.755556	hours
1	Cargo Apro	Fencing	Dump Truc	Diesel	428.00	LF	8 Hours pe	19.02222	hours
1	Cargo Apro	Fencing	Other Gen	Diesel	428.00	LF	8 Hours pe	19.02222	hours
1	Cargo Apro	Fencing	Pickup Truc	Diesel	428.00	LF	8 Hours pe	19.02222	hours
1	Cargo Apro	Fencing	Skid Steer l	Diesel	428.00	LF	8 Hours pe	19.02222	hours
1	Cargo Apro	Fencing	Tractors/Lc	Diesel	428.00	LF	8 Hours pe	19.02222	hours
1	Cargo Apro	Grading	Dozer	Diesel	12640.70	S	8 Hours pe	12.6407	hours
1	Cargo Apro	Grading	Grader	Diesel	12640.70	S	8 Hours pe	12.6407	hours
1	Cargo Apro	Grading	Roller	Diesel	12640.70	S	8 Hours pe	12.6407	hours
1	Cargo Apro	Hydroseed	Hydroseed	Diesel	113880.00		8 Hours pe	11.388	hours
1	Cargo Apro	Hydroseed	Off-Road T	Diesel	113880.00		8 Hours pe	11.388	hours
1	Cargo Apro	Lighting	Dump Truc	Diesel	1356.00	LF	8 Hours pe	9.04	hours
1	Cargo Apro	Lighting	Loader	Diesel	1356.00	LF	8 Hours pe	9.04	hours
1	Cargo Apro	Lighting	Other Gen	Diesel	1356.00	LF	8 Hours pe	9.04	hours
1	Cargo Apro	Lighting	Pickup Truc	Diesel	1356.00	LF	8 Hours pe	9.04	hours
1	Cargo Apro	Lighting	Skid Steer l	Diesel	1356.00	LF	8 Hours pe	9.04	hours
1	Cargo Apro	Lighting	Tractors/Lc	Diesel	1356.00	LF	8 Hours pe	9.04	hours
1	Cargo Apro	Markings	Flatbed Tru	Diesel	107000.00		8 Hours pe	244.5714	hours
1	Cargo Apro	Markings	Other Gen	Diesel	107000.00		8 Hours pe	244.5714	hours
1	Cargo Apro	Markings	Pickup Truc	Diesel	107000.00		8 Hours pe	244.5714	hours
1	Cargo Apro	Sealing/Fu	Distributin	Diesel	11877.00	S	8 Hours pe	31.672	hours
1	Cargo Apro	Sealing/Fu	Other Gen	Diesel	11877.00	S	8 Hours pe	31.672	hours
1	Cargo Apro	Sealing/Fu	Pickup Truc	Diesel	11877.00	S	8 Hours pe	31.672	hours
1	Cargo Apro	Soil Erosior	Other Gen	Diesel	2.60	Acre	4 Hours pe	10.4	hours
1	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	2.60	Acre	8 Hours pe	20.8	hours
1	Cargo Apro	Soil Erosior	Pumps	Diesel	2.60	Acre	4 Hours pe	10.4	hours
1	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	2.60	Acre	4 Hours pe	10.4	hours
1	Cargo Apro	Subbase Pl	Dozer	Diesel	11877.00	S	8 Hours pe	25.00421	hours
1	Cargo Apro	Subbase Pl	Dump Truc	Diesel	3959.00	CY	8 Hours pe	175.9556	hours
1	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	11877.00	S	8 Hours pe	25.00421	hours
1	Cargo Apro	Subbase Pl	Roller	Diesel	3959.00	CY	8 Hours pe	24.36308	hours
1	Cargo Apro	Topsoil Pla	Dozer	Diesel	2106.80	CY	8 Hours pe	28.09067	hours
1	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	2106.80	CY	8 Hours pe	28.09067	hours
1	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	2106.80	CY	8 Hours pe	28.09067	hours
1	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	16150.50	S	8 Hours pe	20.18813	hours
1	Parking Lot	Asphalt Pla	Dump Truc	Diesel	16150.50	S	8 Hours pe	72.70906	hours
1	Parking Lot	Asphalt Pla	Other Gen	Diesel	16150.50	S	16 Hours p	40.37625	hours
1	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	16150.50	S	8 Hours pe	20.18813	hours
1	Parking Lot	Asphalt Pla	Roller	Diesel	16150.50	S	8 Hours pe	20.18813	hours
1	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	16150.50	S	8 Hours pe	20.18813	hours
1	Parking Lot	Asphalt Pla	Surfacing E	Diesel	16150.50	S	8 Hours pe	25.8408	hours
1	Parking Lot	Clearing an	Chain Saw	Diesel	3.60	Acre	12 Hours p	43.2	hours
1	Parking Lot	Clearing an	Chipper/St	Diesel	3.60	Acre	12 Hours p	43.2	hours
1	Parking Lot	Clearing an	Pickup Truc	Diesel	3.60	Acre	16 Hours p	57.6	hours
1	Parking Lot	Curbing	Concrete T	Diesel	970.00	LF	8 Hours pe	19.4	hours
1	Parking Lot	Curbing	Curb/Gutte	Diesel	970.00	LF	8 Hours pe	19.4	hours
1	Parking Lot	Curbing	Other Gen	Diesel	970.00	LF	8 Hours pe	19.4	hours
1	Parking Lot	Curbing	Pickup Truc	Diesel	970.00	LF	8 Hours pe	19.4	hours
1	Parking Lot	Drainage -	Dozer	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Dump Truc	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Excavator	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Loader	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Other Gen	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Pickup Truc	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Roller	Diesel	980.00	LF	8 Hours pe	31.36	hours
1	Parking Lot	Drainage -	Dump Truc	Diesel	5880.00	LF	8 Hours pe	52.26667	hours
1	Parking Lot	Drainage -	Loader	Diesel	5880.00	LF	8 Hours pe	52.26667	hours
1	Parking Lot	Drainage -	Other Gen	Diesel	5880.00	LF	8 Hours pe	52.26667	hours
1	Parking Lot	Drainage -	Pickup Truc	Diesel	5880.00	LF	8 Hours pe	52.26667	hours
1	Parking Lot	Drainage -	Tractors/Lc	Diesel	5880.00	LF	8 Hours pe	52.26667	hours
1	Parking Lot	Excavation	Dozer	Diesel	6729.40	CY	8 Hours pe	89.72533	hours
1	Parking Lot	Excavation	Dump Truc	Diesel	6729.40	CY	8 Hours pe	89.72533	hours
1	Parking Lot	Excavation	Pickup Truc	Diesel	6729.40	CY	8 Hours pe	89.72533	hours
1	Parking Lot	Excavation	Roller	Diesel	6729.40	CY	8 Hours pe	41.41169	hours
1	Parking Lot	Excavation	Dozer	Diesel	6729.40	CY	8 Hours pe	67.294	hours
1	Parking Lot	Excavation	Dump Truc	Diesel	6729.40	CY	8 Hours pe	179.4507	hours
1	Parking Lot	Excavation	Excavator	Diesel	6729.40	CY	8 Hours pe	53.8352	hours
1	Parking Lot	Excavation	Pickup Truc	Diesel	6729.40	CY	8 Hours pe	53.8352	hours
1	Parking Lot	Excavation	Roller	Diesel	6729.40	CY	8 Hours pe	53.8352	hours
1	Parking Lot	Excavation	Scraper	Diesel	6729.40	CY	8 Hours pe	67.294	hours
1	Parking Lot	Excavation	Dozer	Diesel	16150.50	S	8 Hours pe	25.33412	hours
1	Parking Lot	Fencing	Concrete T	Diesel	970.00	LF	2 Hours pe	10.77778	hours
1	Parking Lot	Fencing	Dump Truc	Diesel	970.00	LF	8 Hours pe	43.11111	hours
1	Parking Lot	Fencing	Other Gen	Diesel	970.00	LF	8 Hours pe	43.11111	hours
1	Parking Lot	Fencing	Pickup Truc	Diesel	970.00	LF	8 Hours pe	43.11111	hours
1	Parking Lot	Fencing	Skid Steer l	Diesel	970.00	LF	8 Hours pe	43.11111	hours
1	Parking Lot	Fencing	Tractors/Lc	Diesel	970.00	LF	8 Hours pe	43.11111	hours
1	Parking Lot	Grading	Dozer	Diesel	17404.80	S	8 Hours pe	17.4048	hours
1	Parking Lot	Grading	Grader	Diesel	17404.80	S	8 Hours pe	17.4048	hours
1	Parking Lot	Grading	Roller	Diesel	17404.80	S	8 Hours pe	17.4048	hours
1	Parking Lot	Hydroseed	Hydroseed	Diesel	156800.00		8 Hours pe	15.68	hours
1	Parking Lot	Hydroseed	Off-Road T	Diesel	156800.00		8 Hours pe	15.68	hours
1	Parking Lot	Markings	Flatbed Tru	Diesel	2240.00	SF	8 Hours pe	5.12	hours
1	Parking Lot	Markings	Other Gen	Diesel	2240.00	SF	8 Hours pe	5.12	hours
1	Parking Lot	Markings	Pickup Truc	Diesel	2240.00	SF	8 Hours pe	5.12	hours
1	Parking Lot	Sidewalks	Concrete T	Diesel	2910.00	SF	8 Hours pe	38.8	hours
1	Parking Lot	Sidewalks	Dump Truc	Diesel	2910.00	SF	8 Hours pe	38.8	hours
1	Parking Lot	Sidewalks	Pickup Truc	Diesel	2910.00	SF	8 Hours pe	38.8	hours
1	Parking Lot	Sidewalks	Tractors/Lc	Diesel	2910.00	SF	8 Hours pe	38.8	hours
1	Parking Lot	Sidewalks	Vibratory C	Diesel	2910.00	SF	8 Hours pe	38.8	hours
1	Parking Lot	Soil Erosior	Other Gen	Diesel	3.60	Acre	4 Hours pe	14.4	hours
1	Parking Lot	Soil Erosior	Pickup Truc	Diesel	3.60	Acre	8 Hours pe	28.8	hours
1	Parking Lot	Soil Erosior	Pumps	Diesel	3.60	Acre	4 Hours pe	14.4	hours
1	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	3.60	Acre	4 Hours pe	14.4	hours
1	Parking Lot	Street Ligh	Dump Truc	Diesel	3.60	Lights	8 Hours pe	9.6	hours
1	Parking Lot	Street Ligh	Loader	Diesel	3.60	Lights	8 Hours pe	9.6	hours
1	Parking Lot	Street Ligh	Other Gen	Diesel	3.60	Lights	8 Hours pe	9.6	hours
1	Parking Lot	Street Ligh	Pickup Truc	Diesel	3.60	Lights	8 Hours pe	9.6	hours
1	Parking Lot	Street Ligh	Skid Steer l	Diesel	3.60	Lights	8 Hours pe	9.6	hours
1	Parking Lot	Street Ligh	Tractors/Lc	Diesel	3.60	Lights	8 Hours pe	9.6	hours
1	Parking Lot	Subbase Pl	Dozer	Diesel	16150.50	S	8 Hours pe	34.00105	hours
1	Parking Lot	Subbase Pl	Dump Truc	Diesel	5383.50	CY	8 Hours pe	239.2667	hours
1	Parking Lot	Subbase Pl	Pickup Truc	Diesel	16150.50	S	8 Hours pe	34.00105	hours
1	Parking Lot	Subbase Pl	Roller	Diesel	5383.50	CY	8 Hours pe	33.12923	hours
1	Parking Lot	Topsoil Pla	Dozer	Diesel	2900.80	CY	8 Hours pe	38.67733	hours
1	Parking Lot	Topsoil Pla	Dump Truc	Diesel	2900.80	CY	8 Hours pe	38.67733	hours
1	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	2900.80	CY	8 Hours pe	38.67733	hours
1	Parking Lot	Tree Planti	Flatbed Tru	Diesel	0.00	Trees	8 Hours pe	0	hours
1	Parking Lot	Tree Planti	Other Gen	Diesel	0.00	Trees	8 Hours pe	0	hours
1	Parking Lot	Tree Planti	Pickup Truc	Diesel	0.00	Trees	8 Hours pe	0	hours
1	Parking Lot	Tree Planti	Tractors/Lc	Diesel	0.00	Trees	8 Hours pe	0	hours
1	Rehabilitat	Asphalt Pla	Asphalt Pa	Diesel	101981.30		8 Hours pe	127.4766	hours
1	Rehabilitat	Asphalt Pla	Dump Truc	Diesel	101981.30		8 Hours pe	459.1167	hours
1	Rehabilitat	Asphalt Pla	Other Gen	Diesel	101981.30		16 Hours p	254.9533	hours
1	Rehabilitat	Asphalt Pla	Pickup Truc	Diesel	101981.30		8 Hours pe	127.4766	hours
1	Rehabilitat	Asphalt Pla	Roller	Diesel	101981.30		8 Hours pe	127.4766	hours
1	Rehabilitat	Asphalt Pla	Skid Steer l	Diesel	101981.30		8 Hours pe	127.4766	hours
1	Rehabilitat	Asphalt Pla	Surfacing E	Diesel	101981.30		8 Hours pe	163.1701	hours
1	Rehabilitat	Cold Millin	Cold Plane	Diesel	101981.30		8 Hours pe	203.9626	hours
1	Rehabilitat	Cold Millin	Dump Truc	Diesel	101981.30		8 Hours pe	203.9626	hours
1	Rehabilitat	Cold Millin	Pickup Truc	Diesel	101981.30		8 Hours pe	203.9626	hours
1	Rehabilitat	Cold Millin	Sweepers	Diesel	101981.30		8 Hours pe	203.9626	hours
1	Rehabilitat	Cold Millin	Water Truc	Diesel	101981.30		8 Hours pe	203.9626	hours
1	Rehabilitat	Dust Contr	Water Truc	Diesel	60.00	Day	8 Hours pe	480	hours
1	Rehabilitat	Excavation	Dozer	Diesel	8498.40	CY	8 Hours pe	67.9872	hours
1	Rehabilitat	Excavation	Dump Truc	Diesel	8498.40	CY	8 Hours pe	226.624	hours
1	Rehabilitat	Excavation	Excavator	Diesel	8498.40	CY	8 Hours pe	67.9872	hours
1	Rehabilitat	Excavation	Pickup Truc	Diesel	8498.40	CY	8 Hours pe	67.9872	hours
1	Rehabilitat	Excavation	Roller	Diesel	8498.40	CY	8 Hours pe	67.9872	hours
1	Rehabilitat	Excavation	Dozer	Diesel	20396.30	S	8 Hours pe	31.9942	hours
1	Rehabilitat	Grading	Dozer	Diesel	21269.80	S	8 Hours pe	21.2698	hours
1	Rehabilitat	Grading	Grader	Diesel	21269.80	S	8 Hours pe	21.2698	hours
1	Rehabilitat	Grading	Roller	Diesel	21269.80	S	8 Hours pe	21.2698	hours
1	Rehabilitat	Hydroseed	Hydroseed	Diesel	21269.80	S	8 Hours pe	2.12698	hours
1	Rehabilitat	Hydroseed	Off-Road T	Diesel	21269.80	S	8 Hours pe	2.12698	hours
1	Rehabilitat	Lighting	Dump Truc	Diesel	7850.00	LF	8 Hours pe	52.33333	hours
1	Rehabilitat	Lighting	Loader	Diesel	7850.00	LF	8 Hours pe	52.33333	hours
1	Rehabilitat	Lighting	Other Gen	Diesel	7850.00	LF	8 Hours pe	52.33333	hours
1	Rehabilitat	Lighting	Pickup Truc	Diesel	7850.00	LF	8 Hours pe	52.33333	hours
1	Rehabilitat	Lighting	Skid Steer l	Diesel	7850.00	LF	8 Hours pe	52.33333	hours
1	Rehabilitat	Lighting	Tractors/Lc	Diesel	7850.00	LF	8 Hours pe	52.33333	hours
1	Rehabilitat	Markings	Flatbed Tru	Diesel	918750.00		8 Hours pe	2100	hours
1	Rehabilitat	Markings	Other Gen	Diesel	918750.00		8 Hours pe	2100	hours
1	Rehabilitat	Markings	Pickup Truc	Diesel	918750.00		8 Hours pe	2100	hours
1	Rehabilitat	Sealing Rar	Crack Clear	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Sealing Rar	Crack Filler	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Sealing Rar	Flatbed Tru	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Sealing Rar	Other Gen	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Sealing Rar	Pickup Truc	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Soil Erosior	Other Gen	Diesel	4.40	Acre	4 Hours pe	17.6	hours
1	Rehabilitat	Soil Erosior	Pickup Truc	Diesel	4.40	Acre	8 Hours pe	35.2	hours
1	Rehabilitat	Soil Erosior	Pumps	Diesel	4.40	Acre	4 Hours pe	17.6	hours
1	Rehabilitat	Soil Erosior	Tractors/Lc	Diesel	4.40	Acre	4 Hours pe	17.6	hours
1	Rehabilitat	Subbase Pl	Dozer	Diesel	101981.30		8 Hours pe	214.6975	hours
1	Rehabilitat	Subbase Pl	Dump Truc	Diesel	33993.80	C	8 Hours pe	1510.836	hours
1	Rehabilitat	Subbase Pl	Pickup Truc	Diesel	101981.30		8 Hours pe	214.6975	hours

ACEIT Input - Modified Asphalt Application Rates

1	Rehabilitat	Subbase Pl	Roller	Diesel	33993.80	C	8 Hours pe	209.1926	hours
1	Rehabilitat	Topsoil Pla	Dozer	Diesel	3545.00	CY	8 Hours pe	47.26667	hours
1	Rehabilitat	Topsoil Pla	Dump Truc	Diesel	3545.00	CY	8 Hours pe	47.26667	hours
1	Rehabilitat	Topsoil Pla	Pickup Tru	Diesel	3545.00	CY	8 Hours pe	47.26667	hours
2	Building - 1	Concrete F	Backhoe	Diesel	100000.00		0.0048 Hou	480	hours
2	Building - 1	Concrete F	Concrete P	Diesel	100000.00		0.0018 Hou	180	hours
2	Building - 1	Concrete F	Concrete R	Diesel	100000.00		0.0036 Hou	360	hours
2	Building - 1	Concrete F	Excavator	Diesel	100000.00		0.0016 Hou	160	hours
2	Building - 1	Concrete F	Fork Truck	Diesel	100000.00		0.0048 Hou	480	hours
2	Building - 1	Concrete F	Tool Truck	Diesel	100000.00		0.0012 Hou	120	hours
2	Building - 1	Concrete F	Tractor Tra	Diesel	100000.00		0.0024 Hou	240	hours
2	Building - 1	Constructio	Survey Cre	Diesel	100000.00		0.0001 Hou	10	hours
2	Building - 1	Constructio	Tractor Tra	Diesel	100000.00		0.00004 Ho	4	hours
2	Building - 1	Exterior W	Fork Truck	Diesel	100000.00		0.0084 Hou	840	hours
2	Building - 1	Exterior W	Generator	Diesel	100000.00		0.0008 Hou	80	hours
2	Building - 1	Exterior W	Grout Mixe	Diesel	100000.00		0.0042 Hou	420	hours
2	Building - 1	Exterior W	Grout Whe	Diesel	100000.00		0.0016 Hou	160	hours
2	Building - 1	Exterior W	Man Lift	Diesel	100000.00		0.0168 Hou	1680	hours
2	Building - 1	Exterior W	Tool Truck	Diesel	100000.00		0.0042 Hou	420	hours
2	Building - 1	Exterior W	Tractor Tra	Diesel	100000.00		0.0084 Hou	840	hours
2	Building - 1	Exterior W	Truck Towe	Diesel	100000.00		0.0008 Hou	80	hours
2	Building - 1	Interior Bu	Fork Truck	Diesel	100000.00		0.016 Hour	1600	hours
2	Building - 1	Interior Bu	Man Lift	Diesel	100000.00		0.032 Hour	3200	hours
2	Building - 1	Interior Bu	Tool Truck	Diesel	100000.00		0.016 Hour	1600	hours
2	Building - 1	Interior Bu	Tractor Tra	Diesel	100000.00		0.016 Hour	1600	hours
2	Building - 1	Roofing	High Lift	Diesel	100000.00		0.0016 Hou	160	hours
2	Building - 1	Roofing	Man Lift	Diesel	100000.00		0.0004 Hou	40	hours
2	Building - 1	Roofing	Material De	Diesel	100000.00		0.0006 Hou	60	hours
2	Building - 1	Roofing	Tractor Tra	Diesel	100000.00		0.0004 Hou	40	hours
2	Building - 1	Roofing	Truck Towe	Diesel	100000.00		0.0012 Hou	120	hours
2	Building - 1	Security &	High Lift	Diesel	100000.00		0.008 Hour	800	hours
2	Building - 1	Security &	Tool Truck	Diesel	100000.00		0.008 Hour	800	hours
2	Building - 1	Structural S	90 Ton Cra	Diesel	100000.00		0.0024 Hou	240	hours
2	Building - 1	Structural S	Concrete P	Diesel	100000.00		0.0006 Hou	60	hours
2	Building - 1	Structural S	Concrete T	Diesel	100000.00		0.0006 Hou	60	hours
2	Building - 1	Structural S	Fork Truck	Diesel	100000.00		0.0064 Hou	640	hours
2	Building - 1	Structural S	Tool Truck	Diesel	100000.00		0.0016 Hou	160	hours
2	Building - 1	Structural S	Tractor Tra	Diesel	100000.00		0.0036 Hou	360	hours
2	Building - 1	Structural S	Trowel Ma	Diesel	100000.00		0.0004 Hou	40	hours
2	Building - 1	Structural S	Truck Towe	Diesel	100000.00		0.0072 Hou	720	hours
2	Cargo Aprc	Clearing an	Chain Saw	Diesel	3.90	Acre	12 Hours p	46.8	hours
2	Cargo Aprc	Clearing an	Chipper/St	Diesel	3.90	Acre	12 Hours p	46.8	hours
2	Cargo Aprc	Clearing an	Pickup Tru	Diesel	3.90	Acre	16 Hours p	62.4	hours
2	Cargo Aprc	Concrete P	Air Compre	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Concrete P	Concrete S	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Concrete P	Concrete T	Diesel	7423.10	CY	8 Hours pe	247.4367	hours
2	Cargo Aprc	Concrete P	Other Gen	Diesel	7423.10	CY	16 Hours p	118.7696	hours
2	Cargo Aprc	Concrete P	Pickup Tru	Diesel	7423.10	CY	24 Hours p	178.1544	hours
2	Cargo Aprc	Concrete P	Rubber Tir	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Concrete P	Slip Form P	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Concrete P	Surfacing E	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Drainage -	Dozer	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Dump Truc	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Excavator	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Loader	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Other Gen	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Pickup Tru	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Roller	Diesel	652.00	LF	8 Hours pe	20.864	hours
2	Cargo Aprc	Drainage -	Dump Truc	Diesel	1304.00	LF	8 Hours pe	11.59111	hours
2	Cargo Aprc	Drainage -	Loader	Diesel	1304.00	LF	8 Hours pe	11.59111	hours
2	Cargo Aprc	Drainage -	Other Gen	Diesel	1304.00	LF	8 Hours pe	11.59111	hours
2	Cargo Aprc	Drainage -	Pickup Tru	Diesel	1304.00	LF	8 Hours pe	11.59111	hours
2	Cargo Aprc	Drainage -	Tractors/Lc	Diesel	1304.00	LF	8 Hours pe	11.59111	hours
2	Cargo Aprc	Dust Contr	Water Truc	Diesel	90.00	Day	8 Hours pe	720	hours
2	Cargo Aprc	Excavation	Dozer	Diesel	7423.10	CY	8 Hours pe	98.97467	hours
2	Cargo Aprc	Excavation	Dump Truc	Diesel	7423.10	CY	8 Hours pe	98.97467	hours
2	Cargo Aprc	Excavation	Pickup Tru	Diesel	7423.10	CY	8 Hours pe	98.97467	hours
2	Cargo Aprc	Excavation	Roller	Diesel	7423.10	CY	8 Hours pe	45.68062	hours
2	Cargo Aprc	Excavation	Dozer	Diesel	7423.10	CY	8 Hours pe	74.231	hours
2	Cargo Aprc	Excavation	Dump Truc	Diesel	7423.10	CY	8 Hours pe	197.9493	hours
2	Cargo Aprc	Excavation	Excavator	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Excavation	Pickup Tru	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Excavation	Roller	Diesel	7423.10	CY	8 Hours pe	59.3848	hours
2	Cargo Aprc	Excavation	Scraper	Diesel	7423.10	CY	8 Hours pe	74.231	hours
2	Cargo Aprc	Excavation	Dozer	Diesel	17815.50	S	8 Hours pe	27.94588	hours
2	Cargo Aprc	Fencing	Concrete T	Diesel	642.00	LF	2 Hours pe	7.133333	hours
2	Cargo Aprc	Fencing	Dump Truc	Diesel	642.00	LF	8 Hours pe	28.53333	hours
2	Cargo Aprc	Fencing	Other Gen	Diesel	642.00	LF	8 Hours pe	28.53333	hours
2	Cargo Aprc	Fencing	Pickup Tru	Diesel	642.00	LF	8 Hours pe	28.53333	hours
2	Cargo Aprc	Fencing	Skid Steer l	Diesel	642.00	LF	8 Hours pe	28.53333	hours
2	Cargo Aprc	Fencing	Tractors/Lc	Diesel	642.00	LF	8 Hours pe	28.53333	hours
2	Cargo Aprc	Grading	Dozer	Diesel	18816.70	S	8 Hours pe	18.8167	hours
2	Cargo Aprc	Grading	Grader	Diesel	18816.70	S	8 Hours pe	18.8167	hours
2	Cargo Aprc	Grading	Roller	Diesel	18816.70	S	8 Hours pe	18.8167	hours
2	Cargo Aprc	Hydroseed	Hydroseed	Diesel	169520.00		8 Hours pe	16.952	hours
2	Cargo Aprc	Hydroseed	Off-Road T	Diesel	169520.00		8 Hours pe	16.952	hours
2	Cargo Aprc	Lighting	Dump Truc	Diesel	1784.00	LF	8 Hours pe	11.89333	hours
2	Cargo Aprc	Lighting	Loader	Diesel	1784.00	LF	8 Hours pe	11.89333	hours
2	Cargo Aprc	Lighting	Other Gen	Diesel	1784.00	LF	8 Hours pe	11.89333	hours
2	Cargo Aprc	Lighting	Pickup Tru	Diesel	1784.00	LF	8 Hours pe	11.89333	hours
2	Cargo Aprc	Lighting	Skid Steer l	Diesel	1784.00	LF	8 Hours pe	11.89333	hours
2	Cargo Aprc	Lighting	Tractors/Lc	Diesel	1784.00	LF	8 Hours pe	11.89333	hours
2	Cargo Aprc	Markings	Flatbed Tru	Diesel	160500.00		8 Hours pe	366.8571	hours
2	Cargo Aprc	Markings	Other Gen	Diesel	160500.00		8 Hours pe	366.8571	hours
2	Cargo Aprc	Markings	Pickup Tru	Diesel	160500.00		8 Hours pe	366.8571	hours
2	Cargo Aprc	Sealing/Fu	Distributin	Diesel	17815.50	S	8 Hours pe	47.508	hours
2	Cargo Aprc	Sealing/Fu	Other Gen	Diesel	17815.50	S	8 Hours pe	47.508	hours
2	Cargo Aprc	Sealing/Fu	Pickup Tru	Diesel	17815.50	S	8 Hours pe	47.508	hours
2	Cargo Aprc	Soil Erosior	Other Gen	Diesel	3.90	Acre	4 Hours pe	15.6	hours
2	Cargo Aprc	Soil Erosior	Pickup Tru	Diesel	3.90	Acre	8 Hours pe	31.2	hours
2	Cargo Aprc	Soil Erosior	Pumps	Diesel	3.90	Acre	4 Hours pe	15.6	hours
2	Cargo Aprc	Soil Erosior	Tractors/Lc	Diesel	3.90	Acre	4 Hours pe	15.6	hours
2	Cargo Aprc	Subbase Pl	Dozer	Diesel	17815.50	S	8 Hours pe	37.50632	hours
2	Cargo Aprc	Subbase Pl	Dump Truc	Diesel	5938.50	CY	8 Hours pe	263.9333	hours
2	Cargo Aprc	Subbase Pl	Pickup Tru	Diesel	17815.50	S	8 Hours pe	37.50632	hours
2	Cargo Aprc	Subbase Pl	Roller	Diesel	5938.50	CY	8 Hours pe	36.54462	hours
2	Cargo Aprc	Topsoil Pla	Dozer	Diesel	3136.10	CY	8 Hours pe	41.81467	hours
2	Cargo Aprc	Topsoil Pla	Dump Truc	Diesel	3136.10	CY	8 Hours pe	41.81467	hours
2	Cargo Aprc	Topsoil Pla	Pickup Tru	Diesel	3136.10	CY	8 Hours pe	41.81467	hours
2	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	24225.80	S	8 Hours pe	30.28225	hours
2	Parking Lot	Asphalt Pla	Dump Truc	Diesel	24225.80	S	8 Hours pe	109.0638	hours
2	Parking Lot	Asphalt Pla	Other Gen	Diesel	24225.80	S	16 Hours p	60.5645	hours
2	Parking Lot	Asphalt Pla	Pickup Tru	Diesel	24225.80	S	8 Hours pe	30.28225	hours
2	Parking Lot	Asphalt Pla	Roller	Diesel	24225.80	S	8 Hours pe	30.28225	hours
2	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	24225.80	S	8 Hours pe	30.28225	hours
2	Parking Lot	Asphalt Pla	Surfacing E	Diesel	24225.80	S	8 Hours pe	38.76128	hours
2	Parking Lot	Clearing an	Chain Saw	Diesel	5.40	Acre	12 Hours p	64.8	hours
2	Parking Lot	Clearing an	Chipper/St	Diesel	5.40	Acre	12 Hours p	64.8	hours
2	Parking Lot	Clearing an	Pickup Tru	Diesel	5.40	Acre	16 Hours p	86.4	hours
2	Parking Lot	Curbing	Concrete T	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Curbing	Curb/Gutte	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Curbing	Other Gen	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Curbing	Pickup Tru	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Drainage -	Dozer	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Dump Truc	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Excavator	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Loader	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Other Gen	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Pickup Tru	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Roller	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Dump Truc	Diesel	8790.00	LF	8 Hours pe	78.13333	hours
2	Parking Lot	Drainage -	Loader	Diesel	8790.00	LF	8 Hours pe	78.13333	hours
2	Parking Lot	Drainage -	Other Gen	Diesel	8790.00	LF	8 Hours pe	78.13333	hours
2	Parking Lot	Drainage -	Pickup Tru	Diesel	8790.00	LF	8 Hours pe	78.13333	hours
2	Parking Lot	Drainage -	Tractors/Lc	Diesel	8790.00	LF	8 Hours pe	78.13333	hours
2	Parking Lot	Excavation	Dozer	Diesel	10094.10	C	8 Hours pe	134.588	hours
2	Parking Lot	Excavation	Dump Truc	Diesel	10094.10	C	8 Hours pe	134.588	hours
2	Parking Lot	Excavation	Pickup Tru	Diesel	10094.10	C	8 Hours pe	134.588	hours
2	Parking Lot	Excavation	Roller	Diesel	10094.10	C	8 Hours pe	62.11754	hours
2	Parking Lot	Excavation	Dozer	Diesel	10094.10	C	8 Hours pe	100.941	hours
2	Parking Lot	Excavation	Dump Truc	Diesel	10094.10	C	8 Hours pe	269.176	hours
2	Parking Lot	Excavation	Excavator	Diesel	10094.10	C	8 Hours pe	80.7528	hours
2	Parking Lot	Excavation	Pickup Tru	Diesel	10094.10	C	8 Hours pe	80.7528	hours
2	Parking Lot	Excavation	Roller	Diesel	10094.10	C	8 Hours pe	80.7528	hours
2	Parking Lot	Excavation	Scraper	Diesel	10094.10	C	8 Hours pe	100.941	hours
2	Parking Lot	Excavation	Dozer	Diesel	24225.80	S	8 Hours pe	38.00125	hours
2	Parking Lot	Fencing	Concrete T	Diesel	1455.00	LF	2 Hours pe	16.16667	hours
2	Parking Lot	Fencing	Dump Truc	Diesel	1455.00	LF	8 Hours pe	64.66667	hours
2	Parking Lot	Fencing	Other Gen	Diesel	1455.00	LF	8 Hours pe	64.66667	hours
2	Parking Lot	Fencing	Pickup Tru	Diesel	1455.00	LF	8 Hours pe	64.66667	hours
2	Parking Lot	Fencing	Skid Steer l	Diesel	1455.00	LF	8 Hours pe	64.66667	hours
2	Parking Lot	Fencing	Tractors/Lc	Diesel	1455.00	LF	8 Hours pe	64.66667	hours
2	Parking Lot	Grading	Dozer	Diesel	26018.40	S	8 Hours pe	26.0184	hours
2	Parking Lot	Grading	Grader	Diesel	26018.40	S	8 Hours pe	26.0184	hours
2	Parking Lot	Grading	Roller	Diesel	26018.40	S	8 Hours pe	26.0184	hours
2	Parking Lot	Hydroseed	Hydroseed	Diesel	234400.00		8 Hours pe	23.44	hours
2	Parking Lot	Hydroseed	Off-Road T	Diesel	234400.00		8 Hours pe	23.44	hours
2	Parking Lot	Markings	Flatbed Tru	Diesel	3210.00	SF	8 Hours pe	7.337143	hours
2	Parking Lot	Markings	Other Gen	Diesel	3210.00	SF	8 Hours pe	7.337143	hours
2	Parking Lot	Markings	Pickup Tru	Diesel	3210.00	SF	8 Hours pe	7.337143	hours
2	Parking Lot	Sidewalks	Concrete T	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Dump Truc	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Pickup Tru	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Tractors/Lc	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Vibratory C	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Soil Erosior	Other Gen	Diesel	5.40	Acre	4 Hours pe	21.6	hours
2	Parking Lot	Soil Erosior	Pickup Tru	Diesel	5.40	Acre	8 Hours pe	43.2	hours
2	Parking Lot	Soil Erosior	Pumps	Diesel	5.40	Acre	4 Hours pe	21.6	hours
2	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	5.40	Acre	4 Hours pe	21.6	hours
2	Parking Lot	Street Ligh	Dump Truc	Diesel	5.50	Lights	8 Hours pe	14.66667	hours
2	Parking Lot	Street Ligh	Loader	Diesel	5.50	Lights	8 Hours pe	14.66667	hours
2	Parking Lot	Street Ligh	Other Gen	Diesel	5.50	Lights	8 Hours pe	14.66667	hours

ACEIT Input - Modified Asphalt Application Rates

2	Parking Lot	Street Ligh	Pickup Truc	Diesel	5.50	Lights	8 Hours pe	14.66667	hours
2	Parking Lot	Street Ligh	Skid Steer l	Diesel	5.50	Lights	8 Hours pe	14.66667	hours
2	Parking Lot	Street Ligh	Tractors/Lc	Diesel	5.50	Lights	8 Hours pe	14.66667	hours
2	Parking Lot	Subbase Pl	Dozer	Diesel	24225.80	S	8 Hours pe	51.00168	hours
2	Parking Lot	Subbase Pl	Dump Truc	Diesel	8075.30	CY	8 Hours pe	358.9022	hours
2	Parking Lot	Subbase Pl	Pickup Truc	Diesel	24225.80	S	8 Hours pe	51.00168	hours
2	Parking Lot	Subbase Pl	Roller	Diesel	8075.30	CY	8 Hours pe	49.69415	hours
2	Parking Lot	Topsoil Pla	Dozer	Diesel	4336.40	CY	8 Hours pe	57.81867	hours
2	Parking Lot	Topsoil Pla	Dump Truc	Diesel	4336.40	CY	8 Hours pe	57.81867	hours
2	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	4336.40	CY	8 Hours pe	57.81867	hours
2	Parking Lot	Tree Planti	Flatbed Tru	Diesel	0.00	Trees	8 Hours pe	0	hours
2	Parking Lot	Tree Planti	Other Gen	Diesel	0.00	Trees	8 Hours pe	0	hours
2	Parking Lot	Tree Planti	Pickup Truc	Diesel	0.00	Trees	8 Hours pe	0	hours
2	Parking Lot	Tree Planti	Tractors/Lc	Diesel	0.00	Trees	8 Hours pe	0	hours
3	Building - 1	Concrete F	Backhoe	Diesel	100000.00		0.0048 Hou	480	hours
3	Building - 1	Concrete F	Concrete P	Diesel	100000.00		0.0018 Hou	180	hours
3	Building - 1	Concrete F	Concrete R	Diesel	100000.00		0.0036 Hou	360	hours
3	Building - 1	Concrete F	Excavator	Diesel	100000.00		0.0016 Hou	160	hours
3	Building - 1	Concrete F	Fork Truck	Diesel	100000.00		0.0048 Hou	480	hours
3	Building - 1	Concrete F	Tool Truck	Diesel	100000.00		0.0012 Hou	120	hours
3	Building - 1	Concrete F	Tractor Tra	Diesel	100000.00		0.0024 Hou	240	hours
3	Building - 1	Constructic	Survey Cre	Diesel	100000.00		0.0001 Hou	10	hours
3	Building - 1	Constructic	Tractor Tra	Diesel	100000.00		0.00004 Ho	4	hours
3	Building - 1	Exterior W	Fork Truck	Diesel	100000.00		0.0084 Hou	840	hours
3	Building - 1	Exterior W	Generator	Diesel	100000.00		0.0008 Hou	80	hours
3	Building - 1	Exterior W	Grout Mixe	Diesel	100000.00		0.0042 Hou	420	hours
3	Building - 1	Exterior W	Grout Whe	Diesel	100000.00		0.0016 Hou	160	hours
3	Building - 1	Exterior W	Man Lift	Diesel	100000.00		0.0168 Hou	1680	hours
3	Building - 1	Exterior W	Tool Truck	Diesel	100000.00		0.0042 Hou	420	hours
3	Building - 1	Exterior W	Tractor Tra	Diesel	100000.00		0.0084 Hou	840	hours
3	Building - 1	Exterior W	Truck Towe	Diesel	100000.00		0.0008 Hou	80	hours
3	Building - 1	Interior Bu	Fork Truck	Diesel	100000.00		0.016 Hour	1600	hours
3	Building - 1	Interior Bu	Man Lift	Diesel	100000.00		0.032 Hour	3200	hours
3	Building - 1	Interior Bu	Tool Truck	Diesel	100000.00		0.016 Hour	1600	hours
3	Building - 1	Interior Bu	Tractor Tra	Diesel	100000.00		0.016 Hour	1600	hours
3	Building - 1	Roofing	High Lift	Diesel	100000.00		0.0016 Hou	160	hours
3	Building - 1	Roofing	Man Lift	Diesel	100000.00		0.0004 Hou	40	hours
3	Building - 1	Roofing	Material De	Diesel	100000.00		0.0006 Hou	60	hours
3	Building - 1	Roofing	Tractor Tra	Diesel	100000.00		0.0004 Hou	40	hours
3	Building - 1	Roofing	Truck Towe	Diesel	100000.00		0.0012 Hou	120	hours
3	Building - 1	Security &	High Lift	Diesel	100000.00		0.008 Hour	800	hours
3	Building - 1	Security &	Tool Truck	Diesel	100000.00		0.008 Hour	800	hours
3	Building - 1	Structural	90 Ton Cra	Diesel	100000.00		0.0024 Hou	240	hours
3	Building - 1	Structural	Concrete P	Diesel	100000.00		0.0006 Hou	60	hours
3	Building - 1	Structural	Concrete T	Diesel	100000.00		0.0006 Hou	60	hours
3	Building - 1	Structural	Fork Truck	Diesel	100000.00		0.0064 Hou	640	hours
3	Building - 1	Structural	Tool Truck	Diesel	100000.00		0.0016 Hou	160	hours
3	Building - 1	Structural	Tractor Tra	Diesel	100000.00		0.0036 Hou	360	hours
3	Building - 1	Structural	Trowel Ma	Diesel	100000.00		0.0004 Hou	40	hours
3	Building - 1	Structural	Truck Towe	Diesel	100000.00		0.0072 Hou	720	hours
3	Cargo Aprc	Clearing an	Chain Saw	Diesel	5.20	Acre	12 Hours p	62.4	hours
3	Cargo Aprc	Clearing an	Chipper/St	Diesel	5.20	Acre	12 Hours p	62.4	hours
3	Cargo Aprc	Clearing an	Pickup Truc	Diesel	5.20	Acre	16 Hours p	83.2	hours
3	Cargo Aprc	Concrete P	Air Compre	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Concrete P	Concrete S	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Concrete P	Concrete T	Diesel	9885.90	CY	8 Hours pe	329.53	hours
3	Cargo Aprc	Concrete P	Other Gen	Diesel	9885.90	CY	16 Hours p	158.1744	hours
3	Cargo Aprc	Concrete P	Pickup Truc	Diesel	9885.90	CY	24 Hours p	237.2616	hours
3	Cargo Aprc	Concrete P	Rubber Tir	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Concrete P	Slip Form P	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Concrete P	Surfacing E	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Drainage -	Dozer	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Dump Truc	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Excavator	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Loader	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Other Gen	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Pickup Truc	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Roller	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Aprc	Drainage -	Dump Truc	Diesel	1730.00	LF	8 Hours pe	15.37778	hours
3	Cargo Aprc	Drainage -	Loader	Diesel	1730.00	LF	8 Hours pe	15.37778	hours
3	Cargo Aprc	Drainage -	Other Gen	Diesel	1730.00	LF	8 Hours pe	15.37778	hours
3	Cargo Aprc	Drainage -	Pickup Truc	Diesel	1730.00	LF	8 Hours pe	15.37778	hours
3	Cargo Aprc	Drainage -	Tractors/Lc	Diesel	1730.00	LF	8 Hours pe	15.37778	hours
3	Cargo Aprc	Dust Contr	Water Truc	Diesel	180.00	Day	8 Hours pe	1440	hours
3	Cargo Aprc	Excavation	Dozer	Diesel	9885.90	CY	8 Hours pe	131.812	hours
3	Cargo Aprc	Excavation	Dump Truc	Diesel	9885.90	CY	8 Hours pe	131.812	hours
3	Cargo Aprc	Excavation	Pickup Truc	Diesel	9885.90	CY	8 Hours pe	131.812	hours
3	Cargo Aprc	Excavation	Roller	Diesel	9885.90	CY	8 Hours pe	60.83631	hours
3	Cargo Aprc	Excavation	Dozer	Diesel	9885.90	CY	8 Hours pe	98.859	hours
3	Cargo Aprc	Excavation	Dump Truc	Diesel	9885.90	CY	8 Hours pe	263.624	hours
3	Cargo Aprc	Excavation	Excavator	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Excavation	Pickup Truc	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Excavation	Roller	Diesel	9885.90	CY	8 Hours pe	79.0872	hours
3	Cargo Aprc	Excavation	Scraper	Diesel	9885.90	CY	8 Hours pe	98.859	hours
3	Cargo Aprc	Excavation	Dozer	Diesel	23726.30	S	8 Hours pe	37.21773	hours
3	Cargo Aprc	Fencing	Concrete T	Diesel	855.00	LF	2 Hours pe	9.5	hours
3	Cargo Aprc	Fencing	Dump Truc	Diesel	855.00	LF	8 Hours pe	38	hours
3	Cargo Aprc	Fencing	Other Gen	Diesel	855.00	LF	8 Hours pe	38	hours
3	Cargo Aprc	Fencing	Pickup Truc	Diesel	855.00	LF	8 Hours pe	38	hours
3	Cargo Aprc	Fencing	Skid Steer l	Diesel	855.00	LF	8 Hours pe	38	hours
3	Cargo Aprc	Fencing	Tractors/Lc	Diesel	855.00	LF	8 Hours pe	38	hours
3	Cargo Aprc	Grading	Dozer	Diesel	24963.90	S	8 Hours pe	24.9639	hours
3	Cargo Aprc	Grading	Grader	Diesel	24963.90	S	8 Hours pe	24.9639	hours
3	Cargo Aprc	Grading	Roller	Diesel	24963.90	S	8 Hours pe	24.9639	hours
3	Cargo Aprc	Hydroseed	Hydroseed	Diesel	224900.00		8 Hours pe	22.49	hours
3	Cargo Aprc	Hydroseed	Off-Road T	Diesel	224900.00		8 Hours pe	22.49	hours
3	Cargo Aprc	Lighting	Dump Truc	Diesel	2210.00	LF	8 Hours pe	14.73333	hours
3	Cargo Aprc	Lighting	Loader	Diesel	2210.00	LF	8 Hours pe	14.73333	hours
3	Cargo Aprc	Lighting	Other Gen	Diesel	2210.00	LF	8 Hours pe	14.73333	hours
3	Cargo Aprc	Lighting	Pickup Truc	Diesel	2210.00	LF	8 Hours pe	14.73333	hours
3	Cargo Aprc	Lighting	Skid Steer l	Diesel	2210.00	LF	8 Hours pe	14.73333	hours
3	Cargo Aprc	Lighting	Tractors/Lc	Diesel	2210.00	LF	8 Hours pe	14.73333	hours
3	Cargo Aprc	Markings	Flatbed Tru	Diesel	213750.00		8 Hours pe	488.5714	hours
3	Cargo Aprc	Markings	Other Gen	Diesel	213750.00		8 Hours pe	488.5714	hours
3	Cargo Aprc	Markings	Pickup Truc	Diesel	213750.00		8 Hours pe	488.5714	hours
3	Cargo Aprc	Sealing/Fu	Distributing	Diesel	23726.30	S	8 Hours pe	63.27013	hours
3	Cargo Aprc	Sealing/Fu	Other Gen	Diesel	23726.30	S	8 Hours pe	63.27013	hours
3	Cargo Aprc	Sealing/Fu	Pickup Truc	Diesel	23726.30	S	8 Hours pe	63.27013	hours
3	Cargo Aprc	Soil Erosior	Other Gen	Diesel	5.20	Acre	4 Hours pe	20.8	hours
3	Cargo Aprc	Soil Erosior	Pickup Truc	Diesel	5.20	Acre	8 Hours pe	41.6	hours
3	Cargo Aprc	Soil Erosior	Pumps	Diesel	5.20	Acre	4 Hours pe	20.8	hours
3	Cargo Aprc	Soil Erosior	Tractors/Lc	Diesel	5.20	Acre	4 Hours pe	20.8	hours
3	Cargo Aprc	Subbase Pl	Dozer	Diesel	23726.30	S	8 Hours pe	49.95011	hours
3	Cargo Aprc	Subbase Pl	Dump Truc	Diesel	7908.80	CY	8 Hours pe	351.5022	hours
3	Cargo Aprc	Subbase Pl	Pickup Truc	Diesel	23726.30	S	8 Hours pe	49.95011	hours
3	Cargo Aprc	Subbase Pl	Roller	Diesel	7908.80	CY	8 Hours pe	48.66954	hours
3	Cargo Aprc	Topsoil Pla	Dozer	Diesel	4160.70	CY	8 Hours pe	55.476	hours
3	Cargo Aprc	Topsoil Pla	Dump Truc	Diesel	4160.70	CY	8 Hours pe	55.476	hours
3	Cargo Aprc	Topsoil Pla	Pickup Truc	Diesel	4160.70	CY	8 Hours pe	55.476	hours
3	Drainage S	Drainage -	Dozer	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Dump Truc	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Excavator	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Loader	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Other Gen	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Pickup Truc	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Roller	Diesel	600.00	LF	8 Hours pe	35.29412	hours
3	Drainage S	Drainage -	Dozer	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage -	Dump Truc	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage -	Excavator	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage -	Loader	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage -	Other Gen	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage -	Pickup Truc	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage -	Roller	Diesel	600.00	LF	8 Hours pe	19.2	hours
3	Drainage S	Drainage S	Dump Truc	Diesel	1.20	Unit	4 Hours pe	4.8	hours
3	Drainage S	Drainage S	Excavator	Diesel	1.20	Unit	8 Hours pe	4.8	hours
3	Drainage S	Drainage S	Other Gen	Diesel	1.20	Unit	8 Hours pe	9.6	hours
3	Drainage S	Drainage S	Pickup Truc	Diesel	1.20	Unit	8 Hours pe	9.6	hours
3	Drainage S	Hydroseed	Hydroseed	Diesel	12200.00	S	8 Hours pe	1.22	hours
3	Drainage S	Hydroseed	Off-Road T	Diesel	12200.00	S	8 Hours pe	1.22	hours
3	Drainage S	Soil Erosior	Other Gen	Diesel	0.30	Acre	4 Hours pe	1.2	hours
3	Drainage S	Soil Erosior	Pickup Truc	Diesel	0.30	Acre	8 Hours pe	2.4	hours
3	Drainage S	Soil Erosior	Pumps	Diesel	0.30	Acre	4 Hours pe	1.2	hours
3	Drainage S	Soil Erosior	Tractors/Lc	Diesel	0.30	Acre	4 Hours pe	1.2	hours
3	Drainage S	Topsoil Pla	Dozer	Diesel	225.70	CY	8 Hours pe	3.009333	hours
3	Drainage S	Topsoil Pla	Dump Truc	Diesel	225.70	CY	8 Hours pe	3.009333	hours
3	Drainage S	Topsoil Pla	Pickup Truc	Diesel	225.70	CY	8 Hours pe	3.009333	hours
3	Fuel Tanks	Clearing an	Chain Saw	Diesel	1.10	Acre	12 Hours p	13.2	hours
3	Fuel Tanks	Clearing an	Chipper/St	Diesel	1.10	Acre	12 Hours p	13.2	hours
3	Fuel Tanks	Clearing an	Pickup Truc	Diesel	1.10	Acre	16 Hours p	17.6	hours
3	Fuel Tanks	Concrete P	Air Compre	Diesel	1919.40	CY	8 Hours pe	15.3552	hours
3	Fuel Tanks	Concrete P	Concrete S	Diesel	1919.40	CY	8 Hours pe	15.3552	hours
3	Fuel Tanks	Concrete P	Concrete T	Diesel	1919.40	CY	8 Hours pe	63.98	hours
3	Fuel Tanks	Concrete P	Other Gen	Diesel	1919.40	CY	16 Hours p	30.7104	hours
3	Fuel Tanks	Concrete P	Pickup Truc	Diesel	1919.40	CY	24 Hours p	46.0656	hours
3	Fuel Tanks	Concrete P	Rubber Tir	Diesel	1919.40	CY	8 Hours pe	15.3552	hours
3	Fuel Tanks	Concrete P	Slip Form P	Diesel	1919.40	CY	8 Hours pe	15.3552	hours
3	Fuel Tanks	Concrete P	Surfacing E	Diesel	1919.40	CY	8 Hours pe	15.3552	hours
3	Fuel Tanks	Constructic	Crane	Diesel	5.00	Tank	3 Hours pe	15	hours
3	Fuel Tanks	Constructic	Other Gen	Diesel	5.00	Tank	8 Hours pe	40	hours
3	Fuel Tanks	Constructic	Pickup Truc	Diesel	5.00	Tank	8 Hours pe	40	hours
3	Fuel Tanks	Drainage -	Excavator	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Drainage	Dozer	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Drainage	Dump Truc	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Drainage	Loader	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Drainage	Other Gen	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Drainage	Pickup Truc	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Drainage	Roller	Diesel	425.00	LF	8 Hours pe	13.6	hours
3	Fuel Tanks	Dust Contr	Water Truc	Diesel	180.00	Day	8 Hours pe	1440	hours
3	Fuel Tanks	Excavation	Dozer	Diesel	6142.00	CY	8 Hours pe	81.89333	hours
3	Fuel Tanks	Excavation	Dump Truc	Diesel	6142.00	CY	8 Hours pe	81.89333	hours
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	6142.00	CY	8 Hours pe	81.89333	hours
3	Fuel Tanks	Excavation	Roller	Diesel	6142.00	CY	8 Hours pe	37.79692	hours

ACEIT Input - Modified Asphalt Application Rates

3	Fuel Tanks	Excavation	Dozer	Diesel	6142.00	CY	8 Hours pe	61.42	hours
3	Fuel Tanks	Excavation	Dump Truc	Diesel	6142.00	CY	8 Hours pe	163.7867	hours
3	Fuel Tanks	Excavation	Excavator	Diesel	6142.00	CY	8 Hours pe	49.136	hours
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	6142.00	CY	8 Hours pe	49.136	hours
3	Fuel Tanks	Excavation	Roller	Diesel	6142.00	CY	8 Hours pe	49.136	hours
3	Fuel Tanks	Excavation	Scraper	Diesel	6142.00	CY	8 Hours pe	61.42	hours
3	Fuel Tanks	Excavation	Dozer	Diesel	4606.50	SY	8 Hours pe	7.225882	hours
3	Fuel Tanks	Fencing	Concrete T	Diesel	415.00	LF	2 Hours pe	4.611111	hours
3	Fuel Tanks	Fencing	Dump Truc	Diesel	415.00	LF	8 Hours pe	18.44444	hours
3	Fuel Tanks	Fencing	Other Gen	Diesel	415.00	LF	8 Hours pe	18.44444	hours
3	Fuel Tanks	Fencing	Pickup Truc	Diesel	415.00	LF	8 Hours pe	18.44444	hours
3	Fuel Tanks	Fencing	Skid Steer l	Diesel	415.00	LF	8 Hours pe	18.44444	hours
3	Fuel Tanks	Fencing	Tractors/Lc	Diesel	415.00	LF	8 Hours pe	18.44444	hours
3	Fuel Tanks	Grading	Dozer	Diesel	5189.30	SY	8 Hours pe	5.1893	hours
3	Fuel Tanks	Grading	Grader	Diesel	5189.30	SY	8 Hours pe	5.1893	hours
3	Fuel Tanks	Grading	Roller	Diesel	5189.30	SY	8 Hours pe	5.1893	hours
3	Fuel Tanks	Hydroseed	Hydroseed	Diesel	46750.00	S	8 Hours pe	4.675	hours
3	Fuel Tanks	Hydroseed	Off-Road T	Diesel	46750.00	S	8 Hours pe	4.675	hours
3	Fuel Tanks	Markings	Flatbed Tru	Diesel	41500.00	S	8 Hours pe	94.85714	hours
3	Fuel Tanks	Markings	Other Gen	Diesel	41500.00	S	8 Hours pe	94.85714	hours
3	Fuel Tanks	Markings	Pickup Truc	Diesel	41500.00	S	8 Hours pe	94.85714	hours
3	Fuel Tanks	Soil Erosior	Other Gen	Diesel	1.10	Acre	4 Hours pe	4.4	hours
3	Fuel Tanks	Soil Erosior	Pickup Truc	Diesel	1.10	Acre	8 Hours pe	8.8	hours
3	Fuel Tanks	Soil Erosior	Pumps	Diesel	1.10	Acre	4 Hours pe	4.4	hours
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel	1.10	Acre	4 Hours pe	4.4	hours
3	Fuel Tanks	Street Ligh	Dump Truc	Diesel	1.00	Lights	8 Hours pe	2.666667	hours
3	Fuel Tanks	Street Ligh	Loader	Diesel	1.00	Lights	8 Hours pe	2.666667	hours
3	Fuel Tanks	Street Ligh	Other Gen	Diesel	1.00	Lights	8 Hours pe	2.666667	hours
3	Fuel Tanks	Street Ligh	Pickup Truc	Diesel	1.00	Lights	8 Hours pe	2.666667	hours
3	Fuel Tanks	Street Ligh	Skid Steer l	Diesel	1.00	Lights	8 Hours pe	2.666667	hours
3	Fuel Tanks	Street Ligh	Tractors/Lc	Diesel	1.00	Lights	8 Hours pe	2.666667	hours
3	Fuel Tanks	Subbase Pl	Dozer	Diesel	4606.50	SY	8 Hours pe	9.697895	hours
3	Fuel Tanks	Subbase Pl	Dump Truc	Diesel	1535.50	CY	8 Hours pe	68.24444	hours
3	Fuel Tanks	Subbase Pl	Pickup Truc	Diesel	4606.50	SY	8 Hours pe	9.697895	hours
3	Fuel Tanks	Subbase Pl	Roller	Diesel	1535.50	CY	8 Hours pe	9.449231	hours
3	Fuel Tanks	Topsoil Pla	Dozer	Diesel	1729.80	CY	8 Hours pe	23.064	hours
3	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel	1729.80	CY	8 Hours pe	23.064	hours
3	Fuel Tanks	Topsoil Pla	Pickup Truc	Diesel	1729.80	CY	8 Hours pe	23.064	hours
3	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	40376.30	S	8 Hours pe	50.47038	hours
3	Parking Lot	Asphalt Pla	Dump Truc	Diesel	40376.30	S	8 Hours pe	181.7729	hours
3	Parking Lot	Asphalt Pla	Other Gen	Diesel	40376.30	S	16 Hours p	100.9408	hours
3	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	40376.30	S	8 Hours pe	50.47038	hours
3	Parking Lot	Asphalt Pla	Roller	Diesel	40376.30	S	8 Hours pe	50.47038	hours
3	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	40376.30	S	8 Hours pe	50.47038	hours
3	Parking Lot	Asphalt Pla	Surfacing E	Diesel	40376.30	S	8 Hours pe	64.60208	hours
3	Parking Lot	Clearing an	Chain Saw	Diesel	9.00	Acre	12 Hours p	108	hours
3	Parking Lot	Clearing an	Chipper/St	Diesel	9.00	Acre	12 Hours p	108	hours
3	Parking Lot	Clearing an	Pickup Truc	Diesel	9.00	Acre	16 Hours p	144	hours
3	Parking Lot	Curbing	Concrete T	Diesel	2425.00	LF	8 Hours pe	48.5	hours
3	Parking Lot	Curbing	Curb/Gutte	Diesel	2425.00	LF	8 Hours pe	48.5	hours
3	Parking Lot	Curbing	Other Gen	Diesel	2425.00	LF	8 Hours pe	48.5	hours
3	Parking Lot	Curbing	Pickup Truc	Diesel	2425.00	LF	8 Hours pe	48.5	hours
3	Parking Lot	Drainage -	Dozer	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Dump Truc	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Excavator	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Loader	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Other Gen	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Pickup Truc	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Roller	Diesel	2435.00	LF	8 Hours pe	77.92	hours
3	Parking Lot	Drainage -	Dump Truc	Diesel	14610.00	L	8 Hours pe	129.8667	hours
3	Parking Lot	Drainage -	Loader	Diesel	14610.00	L	8 Hours pe	129.8667	hours
3	Parking Lot	Drainage -	Other Gen	Diesel	14610.00	L	8 Hours pe	129.8667	hours
3	Parking Lot	Drainage -	Pickup Truc	Diesel	14610.00	L	8 Hours pe	129.8667	hours
3	Parking Lot	Drainage -	Tractors/Lc	Diesel	14610.00	L	8 Hours pe	129.8667	hours
3	Parking Lot	Excavation	Dozer	Diesel	16823.40	C	8 Hours pe	224.312	hours
3	Parking Lot	Excavation	Dump Truc	Diesel	16823.40	C	8 Hours pe	224.312	hours
3	Parking Lot	Excavation	Pickup Truc	Diesel	16823.40	C	8 Hours pe	224.312	hours
3	Parking Lot	Excavation	Roller	Diesel	16823.40	C	8 Hours pe	103.5286	hours
3	Parking Lot	Excavation	Dozer	Diesel	16823.40	C	8 Hours pe	168.234	hours
3	Parking Lot	Excavation	Dump Truc	Diesel	16823.40	C	8 Hours pe	448.624	hours
3	Parking Lot	Excavation	Excavator	Diesel	16823.40	C	8 Hours pe	134.5872	hours
3	Parking Lot	Excavation	Pickup Truc	Diesel	16823.40	C	8 Hours pe	134.5872	hours
3	Parking Lot	Excavation	Roller	Diesel	16823.40	C	8 Hours pe	134.5872	hours
3	Parking Lot	Excavation	Scraper	Diesel	16823.40	C	8 Hours pe	168.234	hours
3	Parking Lot	Excavation	Dozer	Diesel	40376.30	S	8 Hours pe	63.33537	hours
3	Parking Lot	Fencing	Concrete T	Diesel	2425.00	LF	2 Hours pe	26.94444	hours
3	Parking Lot	Fencing	Dump Truc	Diesel	2425.00	LF	8 Hours pe	107.7778	hours
3	Parking Lot	Fencing	Other Gen	Diesel	2425.00	LF	8 Hours pe	107.7778	hours
3	Parking Lot	Fencing	Pickup Truc	Diesel	2425.00	LF	8 Hours pe	107.7778	hours
3	Parking Lot	Fencing	Skid Steer l	Diesel	2425.00	LF	8 Hours pe	107.7778	hours
3	Parking Lot	Fencing	Tractors/Lc	Diesel	2425.00	LF	8 Hours pe	107.7778	hours
3	Parking Lot	Grading	Dozer	Diesel	43245.60	S	8 Hours pe	43.2456	hours
3	Parking Lot	Grading	Grader	Diesel	43245.60	S	8 Hours pe	43.2456	hours
3	Parking Lot	Grading	Roller	Diesel	43245.60	S	8 Hours pe	43.2456	hours
3	Parking Lot	Hydroseed	Hydroseed	Diesel	389600.00		8 Hours pe	38.96	hours
3	Parking Lot	Hydroseed	Off-Road T	Diesel	389600.00		8 Hours pe	38.96	hours
3	Parking Lot	Markings	Flatbed Tru	Diesel	5150.00	SF	8 Hours pe	11.77143	hours
3	Parking Lot	Markings	Other Gen	Diesel	5150.00	SF	8 Hours pe	11.77143	hours
3	Parking Lot	Markings	Pickup Truc	Diesel	5150.00	SF	8 Hours pe	11.77143	hours
3	Parking Lot	Sidewalks	Concrete T	Diesel	7275.00	SF	8 Hours pe	97	hours
3	Parking Lot	Sidewalks	Dump Truc	Diesel	7275.00	SF	8 Hours pe	97	hours
3	Parking Lot	Sidewalks	Pickup Truc	Diesel	7275.00	SF	8 Hours pe	97	hours
3	Parking Lot	Sidewalks	Tractors/Lc	Diesel	7275.00	SF	8 Hours pe	97	hours
3	Parking Lot	Sidewalks	Vibratory C	Diesel	7275.00	SF	8 Hours pe	97	hours
3	Parking Lot	Soil Erosior	Other Gen	Diesel	9.00	Acre	4 Hours pe	36	hours
3	Parking Lot	Soil Erosior	Pickup Truc	Diesel	9.00	Acre	8 Hours pe	72	hours
3	Parking Lot	Soil Erosior	Pumps	Diesel	9.00	Acre	4 Hours pe	36	hours
3	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	9.00	Acre	4 Hours pe	36	hours
3	Parking Lot	Street Ligh	Dump Truc	Diesel	9.10	Lights	8 Hours pe	24.26667	hours
3	Parking Lot	Street Ligh	Loader	Diesel	9.10	Lights	8 Hours pe	24.26667	hours
3	Parking Lot	Street Ligh	Other Gen	Diesel	9.10	Lights	8 Hours pe	24.26667	hours
3	Parking Lot	Street Ligh	Pickup Truc	Diesel	9.10	Lights	8 Hours pe	24.26667	hours
3	Parking Lot	Street Ligh	Skid Steer l	Diesel	9.10	Lights	8 Hours pe	24.26667	hours
3	Parking Lot	Street Ligh	Tractors/Lc	Diesel	9.10	Lights	8 Hours pe	24.26667	hours
3	Parking Lot	Subbase Pl	Dozer	Diesel	40376.30	S	8 Hours pe	85.00274	hours
3	Parking Lot	Subbase Pl	Dump Truc	Diesel	13458.80	C	8 Hours pe	598.1689	hours
3	Parking Lot	Subbase Pl	Pickup Truc	Diesel	40376.30	S	8 Hours pe	85.00274	hours
3	Parking Lot	Subbase Pl	Roller	Diesel	13458.80	C	8 Hours pe	82.82338	hours
3	Parking Lot	Topsoil Pla	Dozer	Diesel	7207.60	CY	8 Hours pe	96.10133	hours
3	Parking Lot	Topsoil Pla	Dump Truc	Diesel	7207.60	CY	8 Hours pe	96.10133	hours
3	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	7207.60	CY	8 Hours pe	96.10133	hours
3	Parking Lot	Tree Planti	Flatbed Tru	Diesel	5.00	Trees	8 Hours pe	4	hours
3	Parking Lot	Tree Planti	Other Gen	Diesel	5.00	Trees	8 Hours pe	4	hours
3	Parking Lot	Tree Planti	Pickup Truc	Diesel	5.00	Trees	8 Hours pe	4	hours
3	Parking Lot	Tree Planti	Tractors/Lc	Diesel	5.00	Trees	8 Hours pe	4	hours
3	Taxiways	Asphalt Pla	Asphalt Pa	Diesel	13375.50	S	8 Hours pe	16.71938	hours
3	Taxiways	Asphalt Pla	Dump Truc	Diesel	13375.50	S	8 Hours pe	60.21609	hours
3	Taxiways	Asphalt Pla	Other Gen	Diesel	13375.50	S	16 Hours p	33.43875	hours
3	Taxiways	Asphalt Pla	Pickup Truc	Diesel	13375.50	S	8 Hours pe	16.71938	hours
3	Taxiways	Asphalt Pla	Roller	Diesel	13375.50	S	8 Hours pe	16.71938	hours
3	Taxiways	Asphalt Pla	Skid Steer l	Diesel	13375.50	S	8 Hours pe	16.71938	hours
3	Taxiways	Asphalt Pla	Surfacing E	Diesel	13375.50	S	8 Hours pe	21.4008	hours
3	Taxiways	Clearing an	Chain Saw	Diesel	3.10	Acre	12 Hours p	37.2	hours
3	Taxiways	Clearing an	Chipper/St	Diesel	3.10	Acre	12 Hours p	37.2	hours
3	Taxiways	Clearing an	Pickup Truc	Diesel	3.10	Acre	16 Hours p	49.6	hours
3	Taxiways	Drainage -	Dozer	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Dump Truc	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Excavator	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Loader	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Other Gen	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Pickup Truc	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Roller	Diesel	1215.00	LF	8 Hours pe	38.88	hours
3	Taxiways	Drainage -	Dump Truc	Diesel	2430.00	LF	8 Hours pe	21.6	hours
3	Taxiways	Drainage -	Loader	Diesel	2430.00	LF	8 Hours pe	21.6	hours
3	Taxiways	Drainage -	Other Gen	Diesel	2430.00	LF	8 Hours pe	21.6	hours
3	Taxiways	Drainage -	Pickup Truc	Diesel	2430.00	LF	8 Hours pe	21.6	hours
3	Taxiways	Drainage -	Tractors/Lc	Diesel	2430.00	LF	8 Hours pe	21.6	hours
3	Taxiways	Dust Contr	Water Truc	Diesel	180.00	Day	8 Hours pe	1440	hours
3	Taxiways	Excavation	Dozer	Diesel	5573.10	CY	8 Hours pe	74.308	hours
3	Taxiways	Excavation	Dump Truc	Diesel	5573.10	CY	8 Hours pe	74.308	hours
3	Taxiways	Excavation	Pickup Truc	Diesel	5573.10	CY	8 Hours pe	74.308	hours
3	Taxiways	Excavation	Roller	Diesel	5573.10	CY	8 Hours pe	34.296	hours
3	Taxiways	Excavation	Dozer	Diesel	5573.10	CY	8 Hours pe	55.731	hours
3	Taxiways	Excavation	Dump Truc	Diesel	5573.10	CY	8 Hours pe	148.616	hours
3	Taxiways	Excavation	Excavator	Diesel	5573.10	CY	8 Hours pe	44.5848	hours
3	Taxiways	Excavation	Pickup Truc	Diesel	5573.10	CY	8 Hours pe	44.5848	hours
3	Taxiways	Excavation	Roller	Diesel	5573.10	CY	8 Hours pe	44.5848	hours
3	Taxiways	Excavation	Scraper	Diesel	5573.10	CY	8 Hours pe	55.731	hours
3	Taxiways	Excavation	Dozer	Diesel	13375.50	S	8 Hours pe	20.98118	hours
3	Taxiways	Fencing	Concrete T	Diesel	1205.00	LF	2 Hours pe	13.38889	hours
3	Taxiways	Fencing	Dump Truc	Diesel	1205.00	LF	8 Hours pe	53.55556	hours
3	Taxiways	Fencing	Other Gen	Diesel	1205.00	LF	8 Hours pe	53.55556	hours
3	Taxiways	Fencing	Pickup Truc	Diesel	1205.00	LF	8 Hours pe	53.55556	hours
3	Taxiways	Fencing	Skid Steer l	Diesel	1205.00	LF	8 Hours pe	53.55556	hours
3	Taxiways	Fencing	Tractors/Lc	Diesel	1205.00	LF	8 Hours pe	53.55556	hours
3	Taxiways	Grading	Dozer	Diesel	14835.20	S	8 Hours pe	14.8352	hours
3	Taxiways	Grading	Grader	Diesel	14835.20	S	8 Hours pe	14.8352	hours
3	Taxiways	Grading	Roller	Diesel	14835.20	S	8 Hours pe	14.8352	hours
3	Taxiways	Hydroseed	Hydroseed	Diesel	133650.00		8 Hours pe	13.365	hours
3	Taxiways	Hydroseed	Off-Road T	Diesel	133650.00		8 Hours pe	13.365	hours
3	Taxiways	Lighting	Dump Truc	Diesel	2610.00	LF	8 Hours pe	17.4	hours
3	Taxiways	Lighting	Loader	Diesel	2610.00	LF	8 Hours pe	17.4	hours
3	Taxiways	Lighting	Other Gen	Diesel	2610.00	LF	8 Hours pe	17.4	hours
3	Taxiways	Lighting	Pickup Truc	Diesel	2610.00	LF	8 Hours pe	17.4	hours
3	Taxiways	Lighting	Skid Steer l	Diesel	2610.00	LF	8 Hours pe	17.4	hours
3	Taxiways	Lighting	Tractors/Lc	Diesel	2610.00	LF	8 Hours pe	17.4	hours
3	Taxiways	Markings	Flatbed Tru	Diesel	120500.00		8 Hours pe	275.4286	hours
3	Taxiways	Markings	Other Gen	Diesel	120500.00		8 Hours pe	275.4286	hours
3	Taxiways	Markings	Pickup Truc	Diesel	120500.00		8 Hours pe	275.4286	hours
3	Taxiways	Soil Erosior	Other Gen	Diesel	3.10	Acre	4 Hours pe	12.4	hours
3	Taxiways	Soil Erosior	Pickup Truc	Diesel	3.10	Acre	8 Hours pe	24.8	hours
3	Taxiways	Soil Erosior	Pumps	Diesel	3.10	Acre	4 Hours pe	12.4	hours

ACEIT Input - Modified Asphalt Application Rates

3	Taxiways	Soil Erosior	Tractors/Lc	Diesel	3.10 Acre	4 Hours pe	12.4	hours
3	Taxiways	Subbase Pl	Dozer	Diesel	13375.50 S	8 Hours pe	28.15895	hours
3	Taxiways	Subbase Pl	Dump Truc	Diesel	4458.50 CY	8 Hours pe	198.1556	hours
3	Taxiways	Subbase Pl	Pickup Truc	Diesel	13375.50 S	8 Hours pe	28.15895	hours
3	Taxiways	Subbase Pl	Roller	Diesel	4458.50 CY	8 Hours pe	27.43692	hours
3	Taxiways	Topsoil Pla	Dozer	Diesel	2472.50 CY	8 Hours pe	32.96667	hours
3	Taxiways	Topsoil Pla	Dump Truc	Diesel	2472.50 CY	8 Hours pe	32.96667	hours
3	Taxiways	Topsoil Pla	Pickup Truc	Diesel	2472.50 CY	8 Hours pe	32.96667	hours

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Activity: On-Road

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Scenario ID	Project	Equipment	On-road Ac	Fuel	Roadway T	Round Trip	Number of	Number of	Project Len	Project Wic	Project Are	Building He	Open Spac	Number of	Activity Siz	Activity Rat	Default VM	User VMT
1	Cargo Aprc	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	428	250	--	--	--	--	--	--	1553	
1	Cargo Aprc	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	428	250	--	--	--	--	--	--	24744	
1	Cargo Aprc	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	428	250	--	--	--	--	--	--	2199	
1	Cargo Aprc	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	428	250	--	--	--	--	--	--	13197	
1	Cargo Aprc	Passenger	Employee (	Gasoline	Urban Unre	30	69	43	--	--	--	--	--	--	--	--	89010	
1	Parking Lot	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	970	150	--	--	--	--	--	--	2111	
1	Parking Lot	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	970	150	--	--	--	--	--	--	33647	
1	Parking Lot	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	970	150	--	--	--	--	--	--	2991	
1	Parking Lot	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	970	150	--	--	--	--	--	--	17945	
1	Parking Lot	Passenger	Employee (	Gasoline	Urban Unre	30	77	43	--	--	--	--	--	--	--	--	99330	
1	Rehabilitat	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	3675	250	--	--	--	--	--	--	13331	
1	Rehabilitat	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	3675	250	--	--	--	--	--	--	212461	
1	Rehabilitat	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	3675	250	--	--	--	--	--	--	18885	
1	Rehabilitat	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	3675	250	--	--	--	--	--	--	113313	
1	Rehabilitat	Passenger	Employee (	Gasoline	Urban Unre	30	49	43	--	--	--	--	--	--	--	--	63210	
2	Building - 1	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	--	--	100000	--	--	--	--	--	23125	
2	Building - 1	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	--	--	100000	--	--	--	--	--	12333	
2	Building - 1	Passenger	Employee (	Gasoline	Urban Unre	30	137.5	65	--	--	--	--	--	--	--	--	268125	
2	Building - 1	Tractor Tra	Material Dc	Diesel	Urban Unre	40	--	--	--	--	100000	--	--	--	--	0.0024	2400	
2	Cargo Aprc	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	642	250	--	--	--	--	--	--	2329	
2	Cargo Aprc	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	642	250	--	--	--	--	--	--	37116	
2	Cargo Aprc	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	642	250	--	--	--	--	--	--	3299	
2	Cargo Aprc	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	642	250	--	--	--	--	--	--	19795	
2	Cargo Aprc	Passenger	Employee (	Gasoline	Urban Unre	30	69	65	--	--	--	--	--	--	--	--	134550	
2	Parking Lot	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	1455	150	--	--	--	--	--	--	3167	
2	Parking Lot	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	1455	150	--	--	--	--	--	--	50470	
2	Parking Lot	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	1455	150	--	--	--	--	--	--	4486	
2	Parking Lot	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	1455	150	--	--	--	--	--	--	26918	
2	Parking Lot	Passenger	Employee (	Gasoline	Urban Unre	30	77	65	--	--	--	--	--	--	--	--	150150	
3	Building - 1	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	--	--	100000	--	--	--	--	--	23125	
3	Building - 1	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	--	--	100000	--	--	--	--	--	12333	
3	Building - 1	Passenger	Employee (	Gasoline	Urban Unre	30	137.5	129	--	--	--	--	--	--	--	--	532125	
3	Building - 1	Tractor Tra	Material Dc	Diesel	Urban Unre	40	--	--	--	--	100000	--	--	--	--	0.0024	2400	
3	Cargo Aprc	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	855	250	--	--	--	--	--	--	3101	
3	Cargo Aprc	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	855	250	--	--	--	--	--	--	49430	
3	Cargo Aprc	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	855	250	--	--	--	--	--	--	4394	
3	Cargo Aprc	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	855	250	--	--	--	--	--	--	26363	
3	Cargo Aprc	Passenger	Employee (	Gasoline	Urban Unre	30	69	129	--	--	--	--	--	--	--	--	267030	
3	Drainage S	Passenger	Employee (	Gasoline	Urban Unre	30	27	129	--	--	--	--	--	--	--	--	104490	
3	Fuel Tanks	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	415	100	--	--	--	--	--	--	602	
3	Fuel Tanks	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	415	100	--	--	--	--	--	--	9597	
3	Fuel Tanks	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	415	100	--	--	--	--	--	--	853	
3	Fuel Tanks	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	415	100	--	--	--	--	--	--	5118	
3	Fuel Tanks	Passenger	Employee (	Gasoline	Urban Unre	30	64	129	--	--	--	--	--	--	--	--	247680	
3	Parking Lot	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	2425	150	--	--	--	--	--	--	5278	
3	Parking Lot	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	2425	150	--	--	--	--	--	--	84117	
3	Parking Lot	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	2425	150	--	--	--	--	--	--	7477	
3	Parking Lot	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	2425	150	--	--	--	--	--	--	44863	
3	Parking Lot	Passenger	Employee (	Gasoline	Urban Unre	30	77	129	--	--	--	--	--	--	--	--	297990	
3	Taxiways	Asphalt 18	Material Dc	Diesel	Urban Unre	40	--	--	1205	100	--	--	--	--	--	--	1748	
3	Taxiways	Cement Mi	Material Dc	Diesel	Urban Unre	40	--	--	1205	100	--	--	--	--	--	--	27866	
3	Taxiways	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	1205	100	--	--	--	--	--	--	2477	
3	Taxiways	Dump Truc	Material Dc	Diesel	Urban Unre	40	--	--	1205	100	--	--	--	--	--	--	14862	
3	Taxiways	Passenger	Employee (	Gasoline	Urban Unre	30	65	129	--	--	--	--	--	--	--	--	251550	

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Emission Factor: Non-Road

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Scenario ID	Project	Constructic	Equipment	Fuel Type	Avg Rated	Load Facto	CO (g/hp-h	NOx (g/hp-	CO2 (g/hp-	SO2 (g/hp-	PM10 (g/h	PM2.5 (g/h	VOC Exhau	VOC Evaporative (g/equipment-day)
1	Cargo Aprc	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.74819	8.968334	61.88836	26.04661
1	Cargo Aprc	Clearing an	Chipper/St	Diesel	100	0.43	1.929616	3.464993	589.1723	0.003558	0.342033	0.314671	0.39496	0.077683
1	Cargo Aprc	Clearing an	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Concrete P	Air Compre	Diesel	100	0.43	1.376676	2.284886	589.6476	0.003374	0.205107	0.188698	0.238056	0.268937
1	Cargo Aprc	Concrete P	Concrete S	Diesel	40	0.59	0.678442	3.483034	595.6	0.003185	0.10015	0.092138	0.183824	0.004375
1	Cargo Aprc	Concrete P	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Concrete P	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Concrete P	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Concrete P	Rubber Tir	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Cargo Aprc	Concrete P	Slip Form P	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495
1	Cargo Aprc	Concrete P	Surfacing E	Diesel	25	0.59	2.395309	4.457987	594.7242	0.004009	0.352929	0.324695	0.472896	0.005787
1	Cargo Aprc	Drainage -	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Drainage -	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098
1	Cargo Aprc	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Cargo Aprc	Drainage -	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Drainage -	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Cargo Aprc	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Cargo Aprc	Drainage -	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Drainage -	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Cargo Aprc	Dust Contr	Water Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Excavation	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098
1	Cargo Aprc	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Cargo Aprc	Excavation	Scraper	Diesel	600	0.59	0.7052	1.719861	536.3433	0.002997	0.107454	0.098858	0.160859	0.847351
1	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Fencing	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Fencing	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Fencing	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Fencing	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Fencing	Skid Steer I	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Cargo Aprc	Fencing	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Cargo Aprc	Grading	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Grading	Grader	Diesel	300	0.59	0.310981	1.005164	536.3675	0.002755	0.052605	0.048397	0.15282	0.229828
1	Cargo Aprc	Grading	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Cargo Aprc	Hydroseed	Hydroseed	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Hydroseed	Off-Road T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Lighting	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Lighting	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Cargo Aprc	Lighting	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Lighting	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Lighting	Skid Steer I	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Cargo Aprc	Lighting	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Cargo Aprc	Markings	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Markings	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Markings	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Sealing/Fu	Distributin	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Sealing/Fu	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Sealing/Fu	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Soil Erosior	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Cargo Aprc	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Soil Erosior	Pumps	Diesel	11	0.43	4.464978	4.708033	588.3636	0.003966	0.447631	0.411821	0.661952	0.019081
1	Cargo Aprc	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Cargo Aprc	Subbase Pl	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Subbase Pl	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Subbase Pl	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Cargo Aprc	Topsoil Pla	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Cargo Aprc	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Cargo Aprc	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495
1	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Asphalt Pla	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Parking Lot	Asphalt Pla	Skid Steer I	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.395309	4.457987	594.7242	0.004009	0.352929	0.324695	0.472896	0.005787
1	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.74819	8.968334	61.88836	26.04661
1	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	1.929616	3.464993	589.1723	0.003558	0.342033	0.314671	0.39496	0.077683
1	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495
1	Parking Lot	Curbing	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098
1	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Parking Lot	Drainage -	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Drainage -	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Parking Lot	Drainage -	Other Gen	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619

ACEIT Input - Modified Asphalt Application Rates

1	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Excavation	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098
1	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Parking Lot	Excavation	Scraper	Diesel	600	0.59	0.7052	1.719861	536.3433	0.002997	0.107454	0.098858	0.160859	0.847351
1	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Fencing	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Fencing	Skid Steer L	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Parking Lot	Fencing	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Parking Lot	Grading	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Grading	Grader	Diesel	300	0.59	0.310981	1.005164	536.3675	0.002755	0.052605	0.048397	0.15282	0.229828
1	Parking Lot	Grading	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Parking Lot	Hydroseed	Hydroseed	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Hydroseed	Off-Road T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Markings	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Sidewalks	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	4.454042	4.505789	588.4782	0.003967	0.409876	0.377086	0.624107	0.007042
1	Parking Lot	Soil Erosior	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	4.464978	4.708033	588.3636	0.003966	0.447631	0.411821	0.661952	0.019081
1	Parking Lot	Soil Erosior	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Parking Lot	Street Ligh	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Street Ligh	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Parking Lot	Street Ligh	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Street Ligh	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Street Ligh	Skid Steer L	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Parking Lot	Street Ligh	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Tree Planti	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Parking Lot	Tree Planti	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Rehabilitat	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495
1	Rehabilitat	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Asphalt Pla	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Rehabilitat	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Asphalt Pla	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Rehabilitat	Asphalt Pla	Skid Steer L	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Rehabilitat	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.395309	4.457987	594.7242	0.004009	0.352929	0.324695	0.472896	0.005787
1	Rehabilitat	Cold Millin	Cold Plane	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495
1	Rehabilitat	Cold Millin	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Cold Millin	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Cold Millin	Sweepers	Diesel	175	0.43	0.343805	1.201601	530.5518	0.002842	0.081797	0.075253	0.162001	0.242332
1	Rehabilitat	Cold Millin	Water Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Dust Contr	Water Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Rehabilitat	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Excavation	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098
1	Rehabilitat	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Rehabilitat	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Rehabilitat	Grading	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Rehabilitat	Grading	Grader	Diesel	300	0.59	0.310981	1.005164	536.3675	0.002755	0.052605	0.048397	0.15282	0.229828
1	Rehabilitat	Grading	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Rehabilitat	Hydroseed	Hydroseed	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Hydroseed	Off-Road T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Lighting	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Lighting	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145
1	Rehabilitat	Lighting	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Rehabilitat	Lighting	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Lighting	Skid Steer L	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681
1	Rehabilitat	Lighting	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Rehabilitat	Markings	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Markings	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Rehabilitat	Markings	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Sealing Rar	Crack Clear	Diesel	40	0.59	0.678442	3.483034	595.6	0.003185	0.10015	0.092138	0.183824	0.004375
1	Rehabilitat	Sealing Rar	Crack Filler	Diesel	100	0.43	0.272044	0.28198	589.9443	0.002847	0.011493	0.010574	0.140158	0
1	Rehabilitat	Sealing Rar	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Sealing Rar	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Rehabilitat	Sealing Rar	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Soil Erosior	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121
1	Rehabilitat	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Soil Erosior	Pumps	Diesel	11	0.43	4.464978	4.708033	588.3636	0.003966	0.447631	0.411821	0.661952	0.019081
1	Rehabilitat	Soil Erosior	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321
1	Rehabilitat	Subbase Pl	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Rehabilitat	Subbase Pl	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Subbase Pl	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449
1	Rehabilitat	Topsoil Pla	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312
1	Rehabilitat	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
1	Rehabilitat	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619
2	Building - 1	Concrete F	Backhoe	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Building - 1	Concrete F	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317
2	Building - 1	Concrete F	Concrete R	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Concrete F	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848
2	Building - 1	Concrete F	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326
2	Building - 1	Concrete F	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Concrete F	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Constructic	Survey Cre	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Constructic	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Exterior W	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326
2	Building - 1	Exterior W	Generator	Diesel	40	0.43	1.287109	4.156952	589.3385	0.003484	0.248591	0.228704	0.340077	0.055245
2	Building - 1	Exterior W	Grout Mixe	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	0.999879
2	Building - 1	Exterior W	Grout Whe	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Exterior W	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.207786
2	Building - 1	Exterior W	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Exterior W	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Exterior W	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701
2	Building - 1	Interior Bu	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326
2	Building - 1	Interior Bu	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.207786
2	Building - 1	Interior Bu	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Interior Bu	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Roofing	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326
2	Building - 1	Roofing	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.207786
2	Building - 1	Roofing	Material De	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Roofing	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Roofing	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701
2	Building - 1	Security &	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326
2	Building - 1	Security &	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Structural S	90 Ton Cra	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701
2	Building - 1	Structural S	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317
2	Building - 1	Structural S	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Structural S	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326
2	Building - 1	Structural S	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Structural S	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Building - 1	Structural S	Trowel Ma	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	0.999879
2	Building - 1	Structural S	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701
2	Cargo Aprc	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.04661
2	Cargo Aprc	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239501	589.2407	0.003513	0.318043	0.2926	0.372367	0.071326
2	Cargo Aprc	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Concrete P	Air Compre	Diesel	100	0.43	1.240752	2.039629	589.6911	0.00331	0.181569	0.167043	0.223713	0.232417
2	Cargo Aprc	Concrete P	Concrete S	Diesel	40	0.59	0.600487	3.398114	595.6246	0.003128	0.085838	0.078971	0.175701	0.0035
2	Cargo Aprc	Concrete P	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Concrete P	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Concrete P	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Concrete P	Rubber Tire	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Cargo Aprc	Concrete P	Slip Form P	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.201391
2	Cargo Aprc	Concrete P	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7254	0.004009	0.353033	0.32479	0.472476	0.004629
2	Cargo Aprc	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848
2	Cargo Aprc	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Cargo Aprc	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Cargo Aprc	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Cargo Aprc	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Drainage -	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Cargo Aprc	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848
2	Cargo Aprc	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Cargo Aprc	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.726609
2	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113

ACEIT Input - Modified Asphalt Application Rates

2	Cargo Aprc	Fencing	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181
2	Cargo Aprc	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Cargo Aprc	Grading	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.3751	0.002726	0.045102	0.041494	0.150319	0.188599
2	Cargo Aprc	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Cargo Aprc	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Lighting	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Lighting	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Cargo Aprc	Lighting	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Lighting	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Lighting	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181
2	Cargo Aprc	Lighting	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Cargo Aprc	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Markings	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Sealing/Fu	Distributing	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Sealing/Fu	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Sealing/Fu	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Soil Erosion	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Cargo Aprc	Soil Erosion	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Soil Erosion	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317
2	Cargo Aprc	Soil Erosion	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Cargo Aprc	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Cargo Aprc	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Cargo Aprc	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Cargo Aprc	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Asphalt Pla	Asphalt Pav	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.201391
2	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Asphalt Pla	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Parking Lot	Asphalt Pla	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181
2	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7254	0.004009	0.353033	0.32479	0.472476	0.004629
2	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.04661
2	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239501	589.2407	0.003513	0.318043	0.2926	0.372367	0.071326
2	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.201391
2	Parking Lot	Curbing	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848
2	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Parking Lot	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Parking Lot	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848
2	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Parking Lot	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.726609
2	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Fencing	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Fencing	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181
2	Parking Lot	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Parking Lot	Grading	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.3751	0.002726	0.045102	0.041494	0.150319	0.188599
2	Parking Lot	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Parking Lot	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Markings	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Sidewalks	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	4.454262	4.474392	588.4964	0.003967	0.399923	0.367929	0.618084	0.005931
2	Parking Lot	Soil Erosion	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Soil Erosion	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Soil Erosion	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317
2	Parking Lot	Soil Erosion	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Parking Lot	Street Ligh	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Street Ligh	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589
2	Parking Lot	Street Ligh	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Street Ligh	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Street Ligh	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181
2	Parking Lot	Street Ligh	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
2	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195
2	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603
2	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Tree Planti	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669
2	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113
2	Parking Lot	Tree Planti	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546
3	Building - 1	Concrete F	Backhoe	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Building - 1	Concrete F	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Building - 1	Concrete F	Concrete R	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Concrete F	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Building - 1	Concrete F	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797
3	Building - 1	Concrete F	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Concrete F	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Constructic	Survey Cre	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Constructic	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Exterior W	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797
3	Building - 1	Exterior W	Generator	Diesel	40	0.43	1.287109	4.156952	589.3385	0.003484	0.248591	0.228704	0.340077	0.054044
3	Building - 1	Exterior W	Grout Mixe	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	1.331361
3	Building - 1	Exterior W	Grout Whe	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Exterior W	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.203268
3	Building - 1	Exterior W	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Exterior W	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Exterior W	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069
3	Building - 1	Interior Bu	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797
3	Building - 1	Interior Bu	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.203268
3	Building - 1	Interior Bu	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Interior Bu	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Roofing	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797
3	Building - 1	Roofing	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.203268
3	Building - 1	Roofing	Material De	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Roofing	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Roofing	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069
3	Building - 1	Security &	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797
3	Building - 1	Security &	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Structural S	90 Ton Cra	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069
3	Building - 1	Structural S	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Building - 1	Structural S	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Structural S	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797
3	Building - 1	Structural S	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Structural S	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Building - 1	Structural S	Trowel Ma	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	1.331361
3	Building - 1	Structural S	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069
3	Cargo Aprc	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746
3	Cargo Aprc	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401
3	Cargo Aprc	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Concrete P	Air Compre	Diesel	100	0.43	1.240752	2.039629	589.6911	0.00331	0.181569	0.167043	0.223713	0.227364
3	Cargo Aprc	Concrete P	Concrete S	Diesel	40	0.59	0.600487	3.398114	595.6246	0.003128	0.085838	0.078971	0.175701	0.004661
3	Cargo Aprc	Concrete P	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Concrete P	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Concrete P	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Concrete P	Rubber Tire	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Cargo Aprc	Concrete P	Slip Form P	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157
3	Cargo Aprc	Concrete P	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164
3	Cargo Aprc	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Cargo Aprc	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Cargo Aprc	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Cargo Aprc	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Cargo Aprc	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Cargo Aprc	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Drainage -	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Cargo Aprc	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Cargo Aprc	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819

ACEIT Input - Modified Asphalt Application Rates

3	Cargo Aprc	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Cargo Aprc	Excavation	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Cargo Aprc	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495
3	Cargo Aprc	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Cargo Aprc	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Fencing	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Fencing	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Fencing	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Cargo Aprc	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Cargo Aprc	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Cargo Aprc	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124
3	Cargo Aprc	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Cargo Aprc	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Lighting	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Lighting	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Cargo Aprc	Lighting	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Lighting	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Lighting	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Cargo Aprc	Lighting	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Cargo Aprc	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Markings	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Markings	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Sealing/Fu	Distributin	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Sealing/Fu	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Sealing/Fu	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Soil Erosior	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Cargo Aprc	Soil Erosior	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Cargo Aprc	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Cargo Aprc	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Cargo Aprc	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Subbase Pl	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Cargo Aprc	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Cargo Aprc	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Cargo Aprc	Topsoil Pla	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Drainage S	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Drainage S	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Drainage S	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Drainage S	Drainage -	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Drainage S	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Drainage S	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Drainage S	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Drainage S	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Drainage S	Drainage -	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Drainage S	Drainage S	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Drainage S	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Drainage S	Drainage S	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Drainage S	Drainage S	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Soil Erosior	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Drainage S	Soil Erosior	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Drainage S	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Drainage S	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Drainage S	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Drainage S	Topsoil Pla	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746
3	Fuel Tanks	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401
3	Fuel Tanks	Clearing an	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Concrete P	Air Compre	Diesel	100	0.43	1.240752	2.039629	589.6911	0.00331	0.181569	0.167043	0.223713	0.227364
3	Fuel Tanks	Concrete P	Concrete S	Diesel	40	0.59	0.600487	3.398114	595.6246	0.003128	0.085838	0.078971	0.175701	0.004661
3	Fuel Tanks	Concrete P	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Concrete P	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Concrete P	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Concrete P	Rubber Tir	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Fuel Tanks	Concrete P	Slip Form P	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157
3	Fuel Tanks	Concrete P	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164
3	Fuel Tanks	Constructic	Crane	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069
3	Fuel Tanks	Constructic	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Constructic	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Fuel Tanks	Drainage	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Drainage	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Drainage	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Fuel Tanks	Drainage	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Drainage	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Drainage	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Fuel Tanks	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Excavation	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Fuel Tanks	Excavation	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Fuel Tanks	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495
3	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Fencing	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Fencing	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Fencing	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Fuel Tanks	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Fuel Tanks	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124
3	Fuel Tanks	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Fuel Tanks	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Markings	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Markings	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Soil Erosior	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Soil Erosior	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Fuel Tanks	Street Ligh	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Street Ligh	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Fuel Tanks	Street Ligh	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Fuel Tanks	Street Ligh	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Street Ligh	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Fuel Tanks	Street Ligh	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Fuel Tanks	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Subbase Pl	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Fuel Tanks	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Fuel Tanks	Topsoil Pla	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157
3	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Asphalt Pla	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Asphalt Pla	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Parking Lot	Asphalt Pla	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164
3	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746
3	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401
3	Parking Lot	Clearing an	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157
3	Parking Lot	Curbing	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Curbing	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Parking Lot	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Drainage -	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Parking Lot	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Drainage -	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Excavation	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Parking Lot	Excavation	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Parking Lot	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495
3	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Fencing	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Fencing	Pickup Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993

ACEIT Input - Modified Asphalt Application Rates

3	Parking Lot	Fencing	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Parking Lot	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Parking Lot	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124
3	Parking Lot	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Parking Lot	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Markings	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Sidewalks	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	4.454262	4.474392	588.4964	0.003967	0.399923	0.367929	0.618083	0.007897
3	Parking Lot	Soil Erosior	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Parking Lot	Street Ligh	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Street Ligh	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Parking Lot	Street Ligh	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Street Ligh	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Street Ligh	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Parking Lot	Street Ligh	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Tree Planti	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Parking Lot	Tree Planti	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Taxiways	Asphalt Pla	Asphalt Pav	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157
3	Taxiways	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Asphalt Pla	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Asphalt Pla	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Taxiways	Asphalt Pla	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Taxiways	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164
3	Taxiways	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746
3	Taxiways	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401
3	Taxiways	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Taxiways	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Taxiways	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Taxiways	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Taxiways	Drainage -	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Drainage -	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Taxiways	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Taxiways	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689
3	Taxiways	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Taxiways	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495
3	Taxiways	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Fencing	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Fencing	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Taxiways	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Taxiways	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124
3	Taxiways	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Taxiways	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Lighting	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Lighting	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387
3	Taxiways	Lighting	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Lighting	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Lighting	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704
3	Taxiways	Lighting	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Taxiways	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Markings	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Soil Erosior	Other Gen	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185
3	Taxiways	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963
3	Taxiways	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618
3	Taxiways	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298
3	Taxiways	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819
3	Taxiways	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993
3	Taxiways	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993

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Emission Factors: On-Road

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Scenario ID	Project Typ	Equipment	Fuel Type	Roadway T	CO(g/mi)	NOx(g/mi)	CO2(g/mi)	SO2(g/mi)	PM10(g/mi	PM2.5(g/m	CH4(g/mi)	N2O(g/mi)	VOC(g/mi)	RV CO(g/ve	RV NOx(g/	RV CO2(g/	RV SO2(g/	RV PM10(g	RV PM2.5(	RV VOC(g/	RP VOC(g/veh-day)
1	Cargo Aprc	Asphalt 18	Diesel	Urban Unre	0.458112	1.864489	2328.796	0.015936	0.037545	0.036419	0.087838	0.072776	0.003464	26.27206	8.942973	459.7138	0.003146	0.000227	0.00022	6.657037	0
1	Cargo Aprc	Cement Mi	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Cargo Aprc	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Cargo Aprc	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Cargo Aprc	Passenger	Gasoline	Urban Unre	2.627713	0.075724	314.7649	0.004973	0.013122	0.012083	0.047792	0.004251	0.001668	139.2024	2.378925	618.3101	0.00977	0.129441	0.119191	5.333499	0.454486
1	Parking Lot	Asphalt 18	Diesel	Urban Unre	0.458112	1.864489	2328.796	0.015936	0.037545	0.036419	0.087838	0.072776	0.003464	26.27206	8.942973	459.7138	0.003146	0.000227	0.00022	6.657037	0
1	Parking Lot	Cement Mi	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Parking Lot	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Parking Lot	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Parking Lot	Passenger	Gasoline	Urban Unre	2.627713	0.075724	314.7649	0.004973	0.013122	0.012083	0.047792	0.004251	0.001668	139.2024	2.378925	618.3101	0.00977	0.129441	0.119191	5.333499	0.454486
1	Rehabilitat	Asphalt 18	Diesel	Urban Unre	0.458112	1.864489	2328.796	0.015936	0.037545	0.036419	0.087838	0.072776	0.003464	26.27206	8.942973	459.7138	0.003146	0.000227	0.00022	6.657037	0
1	Rehabilitat	Cement Mi	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Rehabilitat	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Rehabilitat	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Rehabilitat	Passenger	Gasoline	Urban Unre	2.627713	0.075724	314.7649	0.004973	0.013122	0.012083	0.047792	0.004251	0.001668	139.2024	2.378925	618.3101	0.00977	0.129441	0.119191	5.333499	0.454486
2	Building - 1	Cement Mi	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Building - 1	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Building - 1	Passenger	Gasoline	Urban Unre	2.674442	0.141116	353.9019	0.005592	0.013076	0.012041	0.060686	0.004278	0.001798	148.6489	3.430025	705.6336	0.01115	0.155753	0.143419	7.744363	0.715377
2	Building - 1	Tractor Tra	Diesel	Urban Unre	1.404516	5.278901	2328.799	0.016519	0.248141	0.240705	0.290476	0.065585	0.003463	26.30976	8.945107	456.9505	0.003422	0.041797	0.040545	6.918896	0
2	Cargo Aprc	Asphalt 18	Diesel	Urban Unre	1.404516	5.278901	2328.799	0.016519	0.248141	0.240705	0.290476	0.065585	0.003463	26.30976	8.945107	456.9505	0.003422	0.041797	0.040545	6.918896	0
2	Cargo Aprc	Cement Mi	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Cargo Aprc	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Cargo Aprc	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Cargo Aprc	Passenger	Gasoline	Urban Unre	2.674442	0.141116	353.9019	0.005592	0.013076	0.012041	0.060686	0.004278	0.001798	148.6489	3.430025	705.6336	0.01115	0.155753	0.143419	7.744363	0.715377
2	Parking Lot	Asphalt 18	Diesel	Urban Unre	1.404516	5.278901	2328.799	0.016519	0.248141	0.240705	0.290476	0.065585	0.003463	26.30976	8.945107	456.9505	0.003422	0.041797	0.040545	6.918896	0
2	Parking Lot	Cement Mi	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Parking Lot	Passenger	Gasoline	Urban Unre	2.674442	0.141116	353.9019	0.005592	0.013076	0.012041	0.060686	0.004278	0.001798	148.6489	3.430025	705.6336	0.01115	0.155753	0.143419	7.744363	0.715377
3	Building - 1	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Building - 1	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Building - 1	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Building - 1	Tractor Tra	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Cargo Aprc	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Cargo Aprc	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Cargo Aprc	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Cargo Aprc	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Cargo Aprc	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Drainage S	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Fuel Tanks	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Fuel Tanks	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Fuel Tanks	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Fuel Tanks	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Fuel Tanks	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Parking Lot	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Parking Lot	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Parking Lot	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Taxiways	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Taxiways	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Taxiways	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Taxiways	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Taxiways	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0

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Fugitive Emissions

Scenario ID	Project	Fugitive Ty	Variable	Default Val	Units	User Value
1	Cargo Aprc	Concrete M	V = Volume	4948.8	yd3	
1	Cargo Aprc	Concrete M	PM10 = 0.0	183.1	lbs	
1	Cargo Aprc	Material M	s = Surface	0.043	fraction	
1	Cargo Aprc	Material M	Wt. = Mear	32	tons	
1	Cargo Aprc	Material M	VMT = Veh	3310.9	miles	
1	Cargo Aprc	Material M	PM10 = 1.5	90.7	lbs	

ACEIT Input - Modified Asphalt Application Rates

1	Cargo Aprc	Material M	sL = Road s	0.1 g/m3
1	Cargo Aprc	Material M	Wt. = Mear	32 tons
1	Cargo Aprc	Material M	VMT = Veh	3010 miles
1	Cargo Aprc	Material M	PM10 = 0.0	27.9 lbs
1	Cargo Aprc	Unstabilize	A = Area af	2.456 acres
1	Cargo Aprc	Unstabilize	TPConv = T	0.5 fraction
1	Cargo Aprc	Unstabilize	CE = Contrc	0.63 fraction
1	Cargo Aprc	Unstabilize	t = year (e.g	0.167 years
1	Cargo Aprc	Unstabilize	PM10 = 0.3	1.44E-05 lbs
1	Cargo Aprc	Soil Handli	u = Wind sp	5 mph
1	Cargo Aprc	Soil Handli	m = Moistu	0.25 fraction
1	Cargo Aprc	Soil Handli	T = Mass ol	2942.5 tons
1	Cargo Aprc	Soil Handli	PM10 = T x	60.6 lbs
1	Parking Lot	Asphalt Dn	A = Area of	13517 m2
1	Parking Lot	Asphalt Dn	AR = Applic	1.811 l/m2
1	Parking Lot	Asphalt Dn	VD = Volum	0.35 fraction
1	Parking Lot	Asphalt Dn	EF = Mass f	0.7 fraction
1	Parking Lot	Asphalt Dn	D = Density	1.8 lbs/l
1	Parking Lot	Asphalt Dn	VOC = A x A	10795.3 lbs
1	Parking Lot	Asphalt Stc	T = Mass ol	1758.5 tons
1	Parking Lot	Asphalt Stc	PM10 = (0.	48.2 lbs
1	Parking Lot	Asphalt Stc	CO = (0.4 +	704.1 lbs
1	Parking Lot	Asphalt Stc	NOx = (0.02	44 lbs
1	Parking Lot	Asphalt Stc	SOx = (0.00	8.089 lbs
1	Parking Lot	Asphalt Stc	VOC = (0.0	21.8 lbs
1	Parking Lot	Material M	s = Surface	0.043 fraction
1	Parking Lot	Material M	Wt. = Mear	32 tons
1	Parking Lot	Material M	VMT = Veh	4347.7 miles
1	Parking Lot	Material M	PM10 = 1.5	119.1 lbs
1	Parking Lot	Material M	sL = Road s	0.1 g/m3
1	Parking Lot	Material M	Wt. = Mear	32 tons
1	Parking Lot	Material M	VMT = Veh	3870 miles
1	Parking Lot	Material M	PM10 = 0.0	35.9 lbs
1	Parking Lot	Soil Handli	u = Wind sp	5 mph
1	Parking Lot	Soil Handli	m = Moistu	0.25 fraction
1	Parking Lot	Soil Handli	T = Mass ol	4001.3 tons
1	Parking Lot	Soil Handli	PM10 = T x	82.4 lbs
1	Parking Lot	Unstabilize	A = Area af	3.34 acres
1	Parking Lot	Unstabilize	TPConv = T	0.5 fraction
1	Parking Lot	Unstabilize	CE = Contrc	0.63 fraction
1	Parking Lot	Unstabilize	t = year (e.g	0.167 years
1	Parking Lot	Unstabilize	PM10 = 0.3	1.96E-05 lbs
1	Rehabilitat	Asphalt Dn	A = Area of	85351.9 m2
1	Rehabilitat	Asphalt Dn	AR = Applic	1.811 l/m2
1	Rehabilitat	Asphalt Dn	VD = Volum	0.35 fraction
1	Rehabilitat	Asphalt Dn	EF = Mass f	0.7 fraction
1	Rehabilitat	Asphalt Dn	D = Density	1.8 lbs/l
1	Rehabilitat	Asphalt Dn	VOC = A x A	68166.4 lbs
1	Rehabilitat	Asphalt Stc	T = Mass ol	11103.8 tons
1	Rehabilitat	Asphalt Stc	PM10 = (0.	304.5 lbs
1	Rehabilitat	Asphalt Stc	CO = (0.4 +	4446 lbs
1	Rehabilitat	Asphalt Stc	NOx = (0.02	277.6 lbs
1	Rehabilitat	Asphalt Stc	SOx = (0.00	51.1 lbs
1	Rehabilitat	Asphalt Stc	VOC = (0.0	137.7 lbs
1	Rehabilitat	Material M	s = Surface	0.043 fraction
1	Rehabilitat	Material M	Wt. = Mear	32 tons
1	Rehabilitat	Material M	VMT = Veh	23169.2 miles
1	Rehabilitat	Material M	PM10 = 1.5	634.6 lbs
1	Rehabilitat	Material M	sL = Road s	0.1 g/m3
1	Rehabilitat	Material M	Wt. = Mear	32 tons
1	Rehabilitat	Material M	VMT = Veh	22575 miles
1	Rehabilitat	Material M	PM10 = 0.0	209.6 lbs
1	Rehabilitat	Unstabilize	A = Area af	21.1 acres
1	Rehabilitat	Unstabilize	TPConv = T	0.5 fraction
1	Rehabilitat	Unstabilize	CE = Contrc	0.63 fraction
1	Rehabilitat	Unstabilize	t = year (e.g	0.167 years
1	Rehabilitat	Unstabilize	PM10 = 0.3	0.000124 lbs
1	Rehabilitat	Soil Handli	u = Wind sp	5 mph
1	Rehabilitat	Soil Handli	m = Moistu	0.25 fraction
1	Rehabilitat	Soil Handli	T = Mass ol	25265.6 tons
1	Rehabilitat	Soil Handli	PM10 = T x	520.1 lbs
2	Building - 1	Concrete N	V = Volume	4625 yd3
2	Building - 1	Concrete N	PM10 = 0.0	171.1 lbs
2	Building - 1	Material M	sL = Road s	0.1 g/m3
2	Building - 1	Material M	Wt. = Mear	32 tons
2	Building - 1	Material M	VMT = Veh	2600 miles
2	Building - 1	Material M	PM10 = 0.0	24.1 lbs
2	Building - 1	Material M	s = Surface	0.043 fraction
2	Building - 1	Material M	Wt. = Mear	32 tons
2	Building - 1	Material M	VMT = Veh	2700 miles
2	Building - 1	Material M	PM10 = 1.5	73.9 lbs
2	Cargo Aprc	Concrete N	V = Volume	7423.1 yd3
2	Cargo Aprc	Concrete N	PM10 = 0.0	274.7 lbs
2	Cargo Aprc	Material M	s = Surface	0.043 fraction
2	Cargo Aprc	Material M	Wt. = Mear	32 tons
2	Cargo Aprc	Material M	VMT = Veh	4999.4 miles
2	Cargo Aprc	Material M	PM10 = 1.5	136.9 lbs
2	Cargo Aprc	Material M	sL = Road s	0.1 g/m3
2	Cargo Aprc	Material M	Wt. = Mear	32 tons
2	Cargo Aprc	Material M	VMT = Veh	4550 miles
2	Cargo Aprc	Material M	PM10 = 0.0	42.2 lbs
2	Cargo Aprc	Unstabilize	A = Area af	3.685 acres
2	Cargo Aprc	Unstabilize	TPConv = T	0.5 fraction
2	Cargo Aprc	Unstabilize	CE = Contrc	0.63 fraction
2	Cargo Aprc	Unstabilize	t = year (e.g	0.25 years
2	Cargo Aprc	Unstabilize	PM10 = 0.3	3.24E-05 lbs
2	Cargo Aprc	Soil Handli	u = Wind sp	5 mph
2	Cargo Aprc	Soil Handli	m = Moistu	0.25 fraction
2	Cargo Aprc	Soil Handli	T = Mass ol	4413.8 tons
2	Cargo Aprc	Soil Handli	PM10 = T x	90.9 lbs
2	Parking Lot	Asphalt Dn	A = Area of	20275.4 m2
2	Parking Lot	Asphalt Dn	AR = Applic	1.811 l/m2
2	Parking Lot	Asphalt Dn	VD = Volum	0.35 fraction
2	Parking Lot	Asphalt Dn	EF = Mass f	0.7 fraction
2	Parking Lot	Asphalt Dn	D = Density	1.8 lbs/l
2	Parking Lot	Asphalt Dn	VOC = A x A	16193 lbs
2	Parking Lot	Asphalt Stc	T = Mass ol	2637.7 tons
2	Parking Lot	Asphalt Stc	PM10 = (0.	72.3 lbs
2	Parking Lot	Asphalt Stc	CO = (0.4 +	1056.1 lbs
2	Parking Lot	Asphalt Stc	NOx = (0.02	65.9 lbs
2	Parking Lot	Asphalt Stc	SOx = (0.00	12.1 lbs
2	Parking Lot	Asphalt Stc	VOC = (0.0	32.7 lbs
2	Parking Lot	Material M	s = Surface	0.043 fraction
2	Parking Lot	Material M	Wt. = Mear	32 tons
2	Parking Lot	Material M	VMT = Veh	6565.8 miles
2	Parking Lot	Material M	PM10 = 1.5	179.8 lbs
2	Parking Lot	Material M	sL = Road s	0.1 g/m3
2	Parking Lot	Material M	Wt. = Mear	32 tons
2	Parking Lot	Material M	VMT = Veh	5850 miles
2	Parking Lot	Material M	PM10 = 0.0	54.3 lbs
2	Parking Lot	Soil Handli	u = Wind sp	5 mph
2	Parking Lot	Soil Handli	m = Moistu	0.25 fraction
2	Parking Lot	Soil Handli	T = Mass ol	6001.9 tons
2	Parking Lot	Soil Handli	PM10 = T x	123.5 lbs
2	Parking Lot	Unstabilize	A = Area af	5.01 acres
2	Parking Lot	Unstabilize	TPConv = T	0.5 fraction
2	Parking Lot	Unstabilize	CE = Contrc	0.63 fraction
2	Parking Lot	Unstabilize	t = year (e.g	0.25 years
2	Parking Lot	Unstabilize	PM10 = 0.3	4.4E-05 lbs
3	Building - 1	Concrete N	V = Volume	4625 yd3
3	Building - 1	Concrete N	PM10 = 0.0	171.1 lbs
3	Building - 1	Material M	sL = Road s	0.1 g/m3
3	Building - 1	Material M	Wt. = Mear	32 tons
3	Building - 1	Material M	VMT = Veh	3225 miles
3	Building - 1	Material M	PM10 = 0.0	29.9 lbs
3	Building - 1	Material M	s = Surface	0.043 fraction
3	Building - 1	Material M	Wt. = Mear	32 tons
3	Building - 1	Material M	VMT = Veh	3325 miles
3	Building - 1	Material M	PM10 = 1.5	91.1 lbs
3	Cargo Aprc	Concrete N	V = Volume	9885.9 yd3
3	Cargo Aprc	Concrete N	PM10 = 0.0	365.8 lbs
3	Cargo Aprc	Material M	s = Surface	0.043 fraction
3	Cargo Aprc	Material M	Wt. = Mear	32 tons
3	Cargo Aprc	Material M	VMT = Veh	7047.2 miles
3	Cargo Aprc	Material M	PM10 = 1.5	193 lbs
3	Cargo Aprc	Material M	sL = Road s	0.1 g/m3
3	Cargo Aprc	Material M	Wt. = Mear	32 tons
3	Cargo Aprc	Material M	VMT = Veh	6450 miles
3	Cargo Aprc	Material M	PM10 = 0.0	59.9 lbs
3	Cargo Aprc	Unstabilize	A = Area af	4.907 acres
3	Cargo Aprc	Unstabilize	TPConv = T	0.5 fraction
3	Cargo Aprc	Unstabilize	CE = Contrc	0.63 fraction
3	Cargo Aprc	Unstabilize	t = year (e.g	0.5 years
3	Cargo Aprc	Unstabilize	PM10 = 0.3	8.62E-05 lbs
3	Cargo Aprc	Soil Handli	u = Wind sp	5 mph
3	Cargo Aprc	Soil Handli	m = Moistu	0.25 fraction
3	Cargo Aprc	Soil Handli	T = Mass ol	5878.1 tons
3	Cargo Aprc	Soil Handli	PM10 = T x	121 lbs
3	Drainage S	Material M	s = Surface	0.043 fraction
3	Drainage S	Material M	Wt. = Mear	32 tons
3	Drainage S	Material M	VMT = Veh	141.1 miles
3	Drainage S	Material M	PM10 = 1.5	3.865 lbs
3	Drainage S	Material M	sL = Road s	0.1 g/m3
3	Drainage S	Material M	Wt. = Mear	32 tons
3	Drainage S	Material M	VMT = Veh	0 miles
3	Drainage S	Material M	PM10 = 0.0	0 lbs
3	Drainage S	Unstabilize	A = Area af	0.275 acres
3	Drainage S	Unstabilize	TPConv = T	0.5 fraction
3	Drainage S	Unstabilize	CE = Contrc	0.63 fraction
3	Drainage S	Unstabilize	t = year (e.g	0.5 years
3	Drainage S	Unstabilize	PM10 = 0.3	4.84E-06 lbs
3	Drainage S	Soil Handli	u = Wind sp	5 mph

ACEIT Input - Modified Asphalt Application Rates

3	Drainage S	Soil Handli	m = Moistu	0.25	fraction
3	Drainage S	Soil Handli	T = Mass ol	330	tons
3	Drainage S	Soil Handli	PM10 = T x	6.793	lbs
3	Fuel Tanks	Concrete N	V = Volume	1919.4	yd3
3	Fuel Tanks	Concrete N	PM10 = 0.0	71	lbs
3	Fuel Tanks	Material M	s = Surface	0.043	fraction
3	Fuel Tanks	Material M	Wt. = Mear	32	tons
3	Fuel Tanks	Material M	VMT = Veh	2869.3	miles
3	Fuel Tanks	Material M	PM10 = 1.5	78.6	lbs
3	Fuel Tanks	Material M	sL = Road s	0.1	g/m3
3	Fuel Tanks	Material M	Wt. = Mear	32	tons
3	Fuel Tanks	Material M	VMT = Veh	2580	miles
3	Fuel Tanks	Material M	PM10 = 0.0	23.9	lbs
3	Fuel Tanks	Unstabilize	A = Area af	0.953	acres
3	Fuel Tanks	Unstabilize	TPConv = T	0.5	fraction
3	Fuel Tanks	Unstabilize	CE = Contro	0.63	fraction
3	Fuel Tanks	Unstabilize	t = year (e.g	0.5	years
3	Fuel Tanks	Unstabilize	PM10 = 0.3	1.67E-05	lbs
3	Fuel Tanks	Soil Handli	u = Wind sp	5	mph
3	Fuel Tanks	Soil Handli	m = Moistu	0.25	fraction
3	Fuel Tanks	Soil Handli	T = Mass ol	1141.3	tons
3	Fuel Tanks	Soil Handli	PM10 = T x	23.5	lbs
3	Parking Lot	Asphalt Dn	A = Area of	33792.4	m2
3	Parking Lot	Asphalt Dn	AR = Applic	1.811	l/m2
3	Parking Lot	Asphalt Dn	VD = Volum	0.35	fraction
3	Parking Lot	Asphalt Dn	EF = Mass f	0.7	fraction
3	Parking Lot	Asphalt Dn	D = Density	1.8	lbs/l
3	Parking Lot	Asphalt Dn	VOC = A x A	26988.3	lbs
3	Parking Lot	Asphalt Stc	T = Mass ol	4396.2	tons
3	Parking Lot	Asphalt Stc	PM10 = (0.	120.5	lbs
3	Parking Lot	Asphalt Stc	CO = (0.4 +	1760.2	lbs
3	Parking Lot	Asphalt Stc	NOx = (0.02	109.9	lbs
3	Parking Lot	Asphalt Stc	SOx = (0.00	20.2	lbs
3	Parking Lot	Asphalt Stc	VOC = (0.0	54.5	lbs
3	Parking Lot	Material M	s = Surface	0.043	fraction
3	Parking Lot	Material M	Wt. = Mear	32	tons
3	Parking Lot	Material M	VMT = Veh	11511.7	miles
3	Parking Lot	Material M	PM10 = 1.5	315.3	lbs
3	Parking Lot	Material M	sL = Road s	0.1	g/m3
3	Parking Lot	Material M	Wt. = Mear	32	tons
3	Parking Lot	Material M	VMT = Veh	10320	miles
3	Parking Lot	Material M	PM10 = 0.0	95.8	lbs
3	Parking Lot	Soil Handli	u = Wind sp	5	mph
3	Parking Lot	Soil Handli	m = Moistu	0.25	fraction
3	Parking Lot	Soil Handli	T = Mass ol	10003.1	tons
3	Parking Lot	Soil Handli	PM10 = T x	205.9	lbs
3	Parking Lot	Unstabilize	A = Area af	8.351	acres
3	Parking Lot	Unstabilize	TPConv = T	0.5	fraction
3	Parking Lot	Unstabilize	CE = Contro	0.63	fraction
3	Parking Lot	Unstabilize	t = year (e.g	0.5	years
3	Parking Lot	Unstabilize	PM10 = 0.3	0.000147	lbs
3	Taxiways	Asphalt Dn	A = Area of	11194.5	m2
3	Taxiways	Asphalt Dn	AR = Applic	1.811	l/m2
3	Taxiways	Asphalt Dn	VD = Volum	0.35	fraction
3	Taxiways	Asphalt Dn	EF = Mass f	0.7	fraction
3	Taxiways	Asphalt Dn	D = Density	1.8	lbs/l
3	Taxiways	Asphalt Dn	VOC = A x A	8940.5	lbs
3	Taxiways	Asphalt Stc	T = Mass ol	1456.3	tons
3	Taxiways	Asphalt Stc	PM10 = (0.	39.9	lbs
3	Taxiways	Asphalt Stc	CO = (0.4 +	583.1	lbs
3	Taxiways	Asphalt Stc	NOx = (0.02	36.4	lbs
3	Taxiways	Asphalt Stc	SOx = (0.00	6.699	lbs
3	Taxiways	Asphalt Stc	VOC = (0.0	18.1	lbs
3	Taxiways	Material M	s = Surface	0.043	fraction
3	Taxiways	Material M	Wt. = Mear	32	tons
3	Taxiways	Material M	VMT = Veh	4936.6	miles
3	Taxiways	Material M	PM10 = 1.5	135.2	lbs
3	Taxiways	Material M	sL = Road s	0.1	g/m3
3	Taxiways	Material M	Wt. = Mear	32	tons
3	Taxiways	Material M	VMT = Veh	4515	miles
3	Taxiways	Material M	PM10 = 0.0	41.9	lbs
3	Taxiways	Unstabilize	A = Area af	2.766	acres
3	Taxiways	Unstabilize	TPConv = T	0.5	fraction
3	Taxiways	Unstabilize	CE = Contro	0.63	fraction
3	Taxiways	Unstabilize	t = year (e.g	0.5	years
3	Taxiways	Unstabilize	PM10 = 0.3	4.86E-05	lbs
3	Taxiways	Soil Handli	u = Wind sp	5	mph
3	Taxiways	Soil Handli	m = Moistu	0.25	fraction
3	Taxiways	Soil Handli	T = Mass ol	3313.8	tons
3	Taxiways	Soil Handli	PM10 = T x	68.2	lbs

END

ACEIT Output - Modified Asphalt Application Rates

Airport Construction Emissions Inventory Tool (ACEIT)
Version 1.0
Run Date & Time: 6/8/2018 8:21:50 AM

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STUDY

Study Name

BWI Midfield Improvements

Study Description

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EMISSIONS INVENTORY - SUMMARY

Total Emissions by Year
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Year	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O
2018	6.790534	5.563279	0.049602	1.416916	0.238334	13.34621	3180.471	0.042474	0.033617
2019	19.13248	15.39585	0.081497	2.581742	0.765101	12.59079	9156.849	0.256057	0.045394

Total Emissions by Source Categories
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases Emission: Metric Ton

Year	Emission Sc	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	CH4	N2O
2018	NonRoad	1.821256	4.726781	0.01408	0.24476	0.225179	0.810866	2505.014	--	--
2018	OnRoad	2.394228	0.675698	0.005928	0.013806	0.013154	0.070134	675.4571	0.042474	0.033617
2018	Fugitive	2.57505	0.1608	0.029595	1.15835	--	12.46521	--	--	--
2018	TOTAL	6.790534	5.563279	0.049602	1.416916	0.238334	13.34621	3180.471	0.042474	0.033617
2019	NonRoad	6.344513	13.46152	0.042481	0.75599	0.695511	2.619128	7568.053	--	--
2019	OnRoad	11.08826	1.828231	0.019517	0.072822	0.06959	0.550902	1588.796	0.256057	0.045394
2019	Fugitive	1.6997	0.1061	0.0195	1.752929	--	9.420755	--	--	--
2019	TOTAL	19.13248	15.39585	0.081497	2.581742	0.765101	12.59079	9156.849	0.256057	0.045394

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EMISSIONS INVENTORY - DETAILS:

Non-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Scenario ID	Year	Project	Constructic	Equipment	Fuel	HP	Average	Load Facto	Hours of Ac	CO	NOx	SO2	PM10	PM2.5	VOC	CO2	
1	2018	Cargo Apro	Clearing an	Chain Saw	Diesel	11	0.7	31.2	0.077734	0.00035	3.71E-05	0.002582	0.002375	0.017624	0.164804	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	2018	Cargo Apro	Clearing an	Chipper/Sti	Diesel	100	0.43	31.2	0.002854	0.005124	5.26E-06	0.000506	0.000465	0.000588	0.790434	
1	2018	Cargo Apro	Clearing an	Pickup Truc	Diesel	600	0.59	41.6	0.004324	0.013389	4.36E-05	0.000556	0.000512	0.00234	7.899192	
1	2018	Cargo Apro	Concrete P	Air Compre	Diesel	100	0.43	39.5904	0.002583	0.004288	6.33E-06	0.000385	0.000354	0.000459	1.003809	
1	2018	Cargo Apro	Concrete P	Concrete S	Diesel	40	0.59	39.5904	0.000699	0.003587	3.28E-06	0.000103	9.49E-05	0.00019	0.556489	
1	2018	Cargo Apro	Concrete P	Concrete T	Diesel	600	0.59	164.96	0.017147	0.053092	0.000173	0.002205	0.002029	0.009234	31.32333	
1	2018	Cargo Apro	Concrete P	Other Gene	Diesel	175	0.43	79.1808	0.003218	0.011805	1.98E-05	0.000802	0.000738	0.001267	3.160698	
1	2018	Cargo Apro	Concrete P	Pickup Truc	Diesel	600	0.59	118.7712	0.012346	0.038226	0.000124	0.001588	0.001461	0.006653	22.5528	
1	2018	Cargo Apro	Concrete P	Rubber Tire	Diesel	175	0.59	39.5904	0.002861	0.006668	1.34E-05	0.000673	0.00062	0.00081	2.192215	
1	2018	Cargo Apro	Concrete P	Slip Form P	Diesel	175	0.59	39.5904	0.002618	0.006077	1.32E-05	0.000608	0.00056	0.000781	2.19229	
1	2018	Cargo Apro	Concrete P	Surfacing E	Diesel	25	0.59	39.5904	0.001542	0.00287	2.58E-06	0.000227	0.000209	0.000305	0.347294	
1	2018	Cargo Apro	Drainage -	Dozer	Diesel	175	0.59	14.016	0.000785	0.001842	4.55E-06	0.000177	0.000163	0.000269	0.776164	
1	2018	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	14.016	0.001457	0.004511	1.47E-05	0.000187	0.000172	0.000799	2.66142	
1	2018	Cargo Apro	Drainage -	Excavator	Diesel	175	0.59	14.016	0.000606	0.001499	4.41E-06	0.000127	0.000117	0.000252	0.776204	
1	2018	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	14.016	0.001013	0.002361	4.73E-06	0.000238	0.000219	0.000295	0.776099	
1	2018	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	14.016	0.00057	0.00209	3.50E-06	0.000142	0.000131	0.000236	0.559483	
1	2018	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	14.016	0.001457	0.004511	1.47E-05	0.000187	0.000172	0.000799	2.66142	
1	2018	Cargo Apro	Drainage -	Roller	Diesel	100	0.59	14.016	0.001575	0.001594	3.00E-06	0.000205	0.000189	0.000187	0.492501	
1	2018	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	7.786667	0.000809	0.002506	8.16E-06	0.000104	9.58E-05	0.000451	1.478567	
1	2018	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	7.786667	0.000563	0.001312	2.63E-06	0.000132	0.000122	0.000169	0.431166	
1	2018	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	7.786667	0.000316	0.001161	1.94E-06	7.89E-05	7.26E-05	0.000138	0.310824	
1	2018	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	7.786667	0.000809	0.002506	8.16E-06	0.000104	9.58E-05	0.000451	1.478567	
1	2018	Cargo Apro	Drainage -	Tractors/Lc	Diesel	100	0.21	7.786667	0.000821	0.000653	7.50E-07	0.000117	0.000108	0.000164	0.113448	
1	2018	Cargo Apro	Dust Contr	Water Truc	Diesel	600	0.59	480	0.049894	0.154486	0.000503	0.006417	0.005904	0.026838	91.14452	
1	2018	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	65.984	0.003697	0.008674	2.14E-05	0.000834	0.000767	0.001228	3.653996	
1	2018	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	65.984	0.006859	0.021237	6.91E-05	0.000882	0.000812	0.003703	12.52933	
1	2018	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	65.984	0.006859	0.021237	6.91E-05	0.000882	0.000812	0.003703	12.52933	
1	2018	Cargo Apro	Excavation	Roller	Diesel	100	0.59	30.45415	0.003422	0.003464	6.52E-06	0.000446	0.00041	0.000395	1.070113	
1	2018	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	49.488	0.002773	0.006506	1.61E-05	0.000625	0.000575	0.000924	2.740497	
1	2018	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	131.968	0.013718	0.042473	0.000138	0.001764	0.001623	0.00739	25.05867	
1	2018	Cargo Apro	Excavation	Excavator	Diesel	175	0.59	39.5904	0.001712	0.004234	1.25E-05	0.000359	0.00033	0.000698	2.19251	
1	2018	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	39.5904	0.004115	0.012742	4.15E-05	0.000529	0.000487	0.002228	7.5176	
1	2018	Cargo Apro	Excavation	Roller	Diesel	100	0.59	39.5904	0.004448	0.004503	8.47E-06	0.000579	0.000533	0.00051	1.391146	
1	2018	Cargo Apro	Excavation	Scraper	Diesel	600	0.59	49.488	0.013618	0.033213	5.79E-05	0.002075	0.001909	0.003147	9.396065	
1	2018	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	18.63059	0.001044	0.002449	6.05E-06	0.000235	0.000217	0.000354	1.031706	
1	2018	Cargo Apro	Fencing	Concrete T	Diesel	600	0.59	4.755556	0.000494	0.001531	4.98E-06	6.36E-05	5.85E-05	0.000282	0.903006	
1	2018	Cargo Apro	Fencing	Dump Truc	Diesel	600	0.59	19.02222	0.001977	0.006122	1.99E-05	0.000254	0.000234	0.001079	3.612024	
1	2018	Cargo Apro	Fencing	Other Gene	Diesel	175	0.43	19.02222	0.000773	0.002836	4.75E-06	0.000193	0.000177	0.000316	0.759319	
1	2018	Cargo Apro	Fencing	Pickup Truc	Diesel	600	0.59	19.02222	0.001977	0.006122	1.99E-05	0.000254	0.000234	0.001079	3.612024	
1	2018	Cargo Apro	Fencing	Skid Steer L	Diesel	75	0.21	19.02222	0.001619	0.001644	1.42E-06	0.000242	0.000222	0.000342	0.207636	
1	2018	Cargo Apro	Fencing	Tractors/Lc	Diesel	100	0.21	19.02222	0.002007	0.001596	1.83E-06	0.000286	0.000263	0.000354	0.277143	
1	2018	Cargo Apro	Grading	Dozer	Diesel	175	0.59	12.6407	0.000708	0.001662	4.10E-06	0.00016	0.000147	0.000244	0.700004	
1	2018	Cargo Apro	Grading	Grader	Diesel	300	0.59	12.6407	0.000767	0.002479	6.80E-06	0.00013	0.000119	0.000388	1.200071	
1	2018	Cargo Apro	Grading	Roller	Diesel	100	0.59	12.6407	0.00142	0.001438	2.71E-06	0.000185	0.00017	0.000169	0.444175	
1	2018	Cargo Apro	Hydroseedi	Hydroseedi	Diesel	600	0.59	11.388	0.001184	0.003665	1.19E-05	0.000152	0.00014	0.000652	2.162404	
1	2018	Cargo Apro	Hydroseedi	Off-Road Tr	Diesel	600	0.59	11.388	0.001184	0.003665	1.19E-05	0.000152	0.00014	0.000652	2.162404	
1	2018	Cargo Apro	Lighting	Dump Truc	Diesel	600	0.59	9.04	0.00094	0.002909	9.47E-06	0.000121	0.000111	0.000521	1.716555	
1	2018	Cargo Apro	Lighting	Loader	Diesel	175	0.59	9.04	0.000653	0.001523	3.05E-06	0.000154	0.000141	0.000194	0.500566	
1	2018	Cargo Apro	Lighting	Other Gene	Diesel	175	0.43	9.04	0.000367	0.001348	2.26E-06	9.16E-05	8.42E-05	0.000158	0.360854	
1	2018	Cargo Apro	Lighting	Pickup Truc	Diesel	600	0.59	9.04	0.00094	0.002909	9.47E-06	0.000121	0.000111	0.000521	1.716555	
1	2018	Cargo Apro	Lighting	Skid Steer L	Diesel	75	0.21	9.04	0.000769	0.000781	6.75E-07	0.000115	0.000106	0.000173	0.098676	
1	2018	Cargo Apro	Lighting	Tractors/Lc	Diesel	100	0.21	9.04	0.000954	0.000759	8.70E-07	0.000136	0.000125	0.000185	0.131708	
1	2018	Cargo Apro	Markings	Flatbed Tru	Diesel	600	0.59	244.5714	0.025422	0.078715	0.000256	0.00327	0.003008	0.013683	46.4403	
1	2018	Cargo Apro	Markings	Other Gene	Diesel	175	0.43	244.5714	0.00994	0.036463	6.11E-05	0.002478	0.002279	0.003884	9.762675	
1	2018	Cargo Apro	Markings	Pickup Truc	Diesel	600	0.59	244.5714	0.025422	0.078715	0.000256	0.00327	0.003008	0.013683	46.4403	
1	2018	Cargo Apro	Sealing/Fu	Distributing	Diesel	600	0.59	31.672	0.003292	0.010194	3.32E-05	0.000423	0.00039	0.001786	6.014019	
1	2018	Cargo Apro	Sealing/Fu	Other Gene	Diesel	175	0.43	31.672	0.001287	0.004722	7.91E-06	0.000321	0.000295	0.000516	1.264266	
1	2018	Cargo Apro	Sealing/Fu	Pickup Truc	Diesel	600	0.59	31.672	0.003292	0.010194	3.32E-05	0.000423	0.00039	0.001786	6.014019	
1	2018	Cargo Apro	Soil Erosior	Other Gene	Diesel	175	0.43	10.4	0.000423	0.001551	2.60E-06	0.000105	9.69E-05	0.000179	0.415142	
1	2018	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	600	0.59	20.8	0.002162	0.006694	2.18E-05	0.000278	0.000256	0.001178	3.949596	
1	2018	Cargo Apro	Soil Erosior	Pumps	Diesel	11	0.43	10.4	0.000242	0.000255	2.15E-07	2.43E-05	2.23E-05	3.68E-05	0.028943	
1	2018	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	100	0.21	10.4	0.001097	0.000873	1.00E-06	0.000156	0.000144	0.000208	0.151522	
1	2018	Cargo Apro	Subbase Pl	Dozer	Diesel	175	0.59	25.00421	0.001401	0.003287	8.12E-06	0.000316	0.000291	0.000472	1.384658	
1	2018	Cargo Apro	Subbase Pl	Dump Truc	Diesel	600	0.59	175.9556	0.01829	0.056631	0.000184	0.002352	0.002164	0.009848	33.41122	
1	2018	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	600	0.59	25.00421	0.002599	0.008048	2.62E-05	0.000334	0.000308	0.001413	4.74791	
1	2018	Cargo Apro	Subbase Pl	Roller	Diesel	100	0.59	24.36308	0.002737	0.002771	5.21E-06	0.000356	0.000328	0.000317	0.856081	
1	2018	Cargo Apro	Topsoil Pla	Dozer	Diesel	175	0.59	28.09067	0.001574	0.003693	9.12E-06	0.000355	0.000327	0.000529	1.555577	
1	2018	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	600	0.59	28.09067	0.00292	0.009041	2.94E-05	0.000376	0.000346	0.001586	5.33398	
1	2018	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	600	0.59	28.09067	0.00292	0.009041	2.94E-05	0.000376	0.000346	0.001586	5.33398	
1	2018	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	20.18813	0.001335	0.003099	6.71E-06	0.00031	0.000285	0.000404	1.117903	
1	2018	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	72.70906	0.007558	0.023401	7.62E-05	0.000972	0.000894	0.004079	13.80632	
1	2018	Parking Lot	Asphalt Pla	Other Gene	Diesel	175	0.43	40.37625	0.001641	0.00602	1.01E-05	0.000409	0.000376	0.000654	1.611718	
1	2018	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	20.18813	0.002098	0.006497	2.11E-05	0.00027	0.000248	0.001144	3.83341	
1	2018	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	20.18813	0.002268	0.002296	4.32E-06	0.000295	0.000272	0.000265	0.70938	
1	2018	Parking Lot	Asphalt Pla	Skid Steer L	Diesel	75	0.21	20.18813	0.001718	0.001744	1.51E-06	0.000256	0.000236	0.000362	0.220362	
1	2018	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	25.8408	0.001006	0.001873	1.68E-06	0.000148	0.000136	0.000199	0.22668	
1	2018	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	43.2	0.107632	0.000485	5.14E-05	0.003574	0.003288	0.023927	0.22819	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	2018	Parking Lot	Clearing an	Chipper/Sti	Diesel	100	0.43	43.2	0.003951	0.007095	7.29E-06	0.0007	0.000644	0.000812	1.094446	
1	2018	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	57.6	0.005987	0.018538	6.03E-05	0.00077	0.000708	0.003235	10.93734	
1	2018	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	19.4	0.002017	0.006244	2.03E-05	0.000259	0.000239	0.0011	3.683758	
1	2018	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	19.4	0.001283	0.002978	6.45E-06	0.000298	0.000274	0.000389	1.074261	
1	2018	Parking Lot	Curbing	Other Gene	Diesel	175	0.43	19.4	0.000788	0.002892	4.84E-06	0.000197	0.000181	0.000322	0.774399	
1	2018	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	19.4	0.002017	0.006244	2.03E-05	0.000259	0.000239	0.0011	3.683758	
1	2018	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	31.36	0.001757	0.004122	1.02E-05	0.000396	0.000365	0.000589	1.736623	
1	2018	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	31.36	0.00326	0.010093	3.28E-05	0.000419	0.000386	0.001768	5.954775	
1	2018	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	31.36	0.001356	0.003353	9.87E-06	0.000284	0.000261	0.000554	1.736711	
1	2018	Parking Lot	Drainage -	Loader	Diesel	175	0.59	31.36	0.002266	0.005282	1.06E-05	0.000533	0.000491	0.000644	1.736478	
1	2018	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	31.36	0.001275	0.004675	7.83E-06	0.000318	0.000292	0.000511	1.251812	
1	2018	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	31.36	0.00326	0.010093	3.28E-05	0.000419	0.000386	0.001768	5.954775	
1	2018	Parking Lot	Drainage -	Roller	Diesel	100	0.59	31.36	0.003524	0.003567	6.71E-06	0.000459	0.000422	0.000406	1.101943	
1	2018	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	52.26667	0.005433	0.016822	5.47E-05	0.000699	0.000643	0.002936	9.924626	
1	2018	Parking Lot	Drainage -	Loader	Diesel	175	0.59	52.26667	0.003777	0.008804	1.76E-05	0.000889	0.000818	0.001065	2.89413	
1	2018	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	52.26667	0.002124	0.007792	1.30E-05	0.000529	0.000487	0.000842	2.086354	
1	2018	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	52.26667	0.005433	0.016822	5.47E-05	0.000699	0.000643	0.002936	9.924626	
1	2018	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	52.26667	0.005514	0.004386	5.03E-06	0.000785	0.000723	0.000916	0.761497	
1	2018	Parking Lot	Excavation	Dozer	Diesel	175	0.59	89.72533	0.005027	0.011795	2.91E-05	0.001134	0.001043	0.001667	4.96872	
1	2018	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	89.72533	0.009327	0.028878	9.40E-05	0.0012	0.001104	0.00503	17.03744	
1	2018	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	89.72533	0.009327	0.028878	9.40E-05	0.0012	0.001104	0.00503	17.03744	
1	2018	Parking Lot	Excavation	Roller	Diesel	100	0.59	41.41169	0.004653	0.00471	8.86E-06	0.000606	0.000557	0.000533	1.455144	
1	2018	Parking Lot	Excavation	Dozer	Diesel	175	0.59	67.294	0.003771	0.008846	2.18E-05	0.00085	0.000782	0.001253	3.72654	

ACEIT Output - Modified Asphalt Application Rates

1	2018	Parking Lot Excavation	Dump Truc	Diesel	600	0.59	179.4507	0.018653	0.057756	0.000188	0.002399	0.002207	0.010044	34.07489	
1	2018	Parking Lot Excavation	Excavator	Diesel	175	0.59	53.8352	0.002328	0.005757	1.70E-05	0.000488	0.000449	0.000946	2.981384	
1	2018	Parking Lot Excavation	Pickup Truc	Diesel	600	0.59	53.8352	0.005596	0.017327	5.64E-05	0.00072	0.000662	0.003024	10.22247	
1	2018	Parking Lot Excavation	Roller	Diesel	100	0.59	53.8352	0.006049	0.006123	1.15E-05	0.000788	0.000725	0.00069	1.891687	
1	2018	Parking Lot Excavation	Scraper	Diesel	600	0.59	67.294	0.018518	0.045163	7.87E-05	0.002822	0.002596	0.004264	12.77681	
1	2018	Parking Lot Excavation	Dozer	Diesel	175	0.59	25.33412	0.001419	0.00333	8.22E-06	0.00032	0.000294	0.000478	1.402928	
1	2018	Parking Lot Fencing	Concrete T	Diesel	600	0.59	10.77778	0.00112	0.003469	1.13E-05	0.000144	0.000133	0.000618	2.046532	
1	2018	Parking Lot Fencing	Dump Truc	Diesel	600	0.59	43.11111	0.004481	0.013875	4.52E-05	0.000576	0.00053	0.002425	8.186128	
1	2018	Parking Lot Fencing	Other Gen	Diesel	175	0.43	43.11111	0.001752	0.006427	1.08E-05	0.000437	0.000402	0.000697	1.720887	
1	2018	Parking Lot Fencing	Pickup Truc	Diesel	600	0.59	43.11111	0.004481	0.013875	4.52E-05	0.000576	0.00053	0.002425	8.186128	
1	2018	Parking Lot Fencing	Skid Steer l	Diesel	75	0.21	43.11111	0.003669	0.003725	3.22E-06	0.000548	0.000504	0.00075	0.470577	
1	2018	Parking Lot Fencing	Tractors/Lc	Diesel	100	0.21	43.11111	0.004548	0.003618	4.15E-06	0.000648	0.000596	0.000762	0.628106	
1	2018	Parking Lot Grading	Dozer	Diesel	175	0.59	17.4048	0.000975	0.002288	5.65E-06	0.00022	0.000202	0.000331	0.963826	
1	2018	Parking Lot Grading	Grader	Diesel	300	0.59	17.4048	0.001056	0.003413	9.36E-06	0.000179	0.000164	0.00053	1.65236	
1	2018	Parking Lot Grading	Roller	Diesel	100	0.59	17.4048	0.001956	0.001979	3.73E-06	0.000255	0.000234	0.000229	0.611578	
1	2018	Parking Lot Hydroseedi	Hydroseed	Diesel	600	0.59	15.68	0.00163	0.005047	1.64E-05	0.00021	0.000193	0.000892	2.977388	
1	2018	Parking Lot Hydroseedi	Off-Road Ti	Diesel	600	0.59	15.68	0.00163	0.005047	1.64E-05	0.00021	0.000193	0.000892	2.977388	
1	2018	Parking Lot Markings	Flatbed Tru	Diesel	600	0.59	5.12	0.000532	0.001648	5.36E-06	6.85E-05	6.30E-05	0.000302	0.972208	
1	2018	Parking Lot Markings	Other Gen	Diesel	175	0.43	5.12	0.000208	0.000763	1.28E-06	5.19E-05	4.77E-05	9.58E-05	0.204377	
1	2018	Parking Lot Markings	Pickup Truc	Diesel	600	0.59	5.12	0.000532	0.001648	5.36E-06	6.85E-05	6.30E-05	0.000302	0.972208	
1	2018	Parking Lot Sidewalks	Concrete T	Diesel	600	0.59	38.8	0.004033	0.012488	4.06E-05	0.000519	0.000477	0.002184	7.367515	
1	2018	Parking Lot Sidewalks	Dump Truc	Diesel	600	0.59	38.8	0.004033	0.012488	4.06E-05	0.000519	0.000477	0.002184	7.367515	
1	2018	Parking Lot Sidewalks	Pickup Truc	Diesel	600	0.59	38.8	0.004033	0.012488	4.06E-05	0.000519	0.000477	0.002184	7.367515	
1	2018	Parking Lot Sidewalks	Tractors/Lc	Diesel	100	0.21	38.8	0.004093	0.003256	3.74E-06	0.000583	0.000536	0.000689	0.565295	
1	2018	Parking Lot Sidewalks	Vibratory C	Diesel	6	0.43	38.8	0.000491	0.000497	4.38E-07	4.52E-05	4.16E-05	6.92E-05	0.058909	
1	2018	Parking Lot Soil Erosior	Other Gen	Diesel	175	0.43	14.4	0.000585	0.002147	3.59E-06	0.000146	0.000134	0.000243	0.574812	
1	2018	Parking Lot Soil Erosior	Pickup Truc	Diesel	600	0.59	28.8	0.002994	0.009269	3.02E-05	0.000385	0.000354	0.001625	5.468671	
1	2018	Parking Lot Soil Erosior	Pumps	Diesel	11	0.43	14.4	0.000335	0.000353	2.98E-07	3.36E-05	3.09E-05	5.06E-05	0.040075	
1	2018	Parking Lot Soil Erosior	Tractors/Lc	Diesel	100	0.21	14.4	0.001519	0.001208	1.39E-06	0.000216	0.000199	0.000276	0.2098	
1	2018	Parking Lot Street Light	Dump Truc	Diesel	600	0.59	9.6	0.000998	0.00309	1.01E-05	0.000128	0.000118	0.000552	1.82289	
1	2018	Parking Lot Street Light	Loader	Diesel	175	0.59	9.6	0.000694	0.001617	3.24E-06	0.000163	0.00015	0.000206	0.531575	
1	2018	Parking Lot Street Light	Other Gen	Diesel	175	0.43	9.6	0.00039	0.001431	2.40E-06	9.72E-05	8.95E-05	0.000167	0.383208	
1	2018	Parking Lot Street Light	Pickup Truc	Diesel	600	0.59	9.6	0.000998	0.00309	1.01E-05	0.000128	0.000118	0.000552	1.82289	
1	2018	Parking Lot Street Light	Skid Steer l	Diesel	75	0.21	9.6	0.000817	0.000829	7.16E-07	0.000122	0.000112	0.000183	0.104788	
1	2018	Parking Lot Street Light	Tractors/Lc	Diesel	100	0.21	9.6	0.001013	0.000806	9.24E-07	0.000144	0.000133	0.000194	0.139867	
1	2018	Parking Lot Subbase Pl	Dozer	Diesel	175	0.59	34.00105	0.001905	0.00447	1.10E-05	0.00043	0.000395	0.000638	1.882876	
1	2018	Parking Lot Subbase Pl	Dump Truc	Diesel	600	0.59	239.2667	0.024871	0.077007	0.000251	0.003199	0.002943	0.013386	45.43301	
1	2018	Parking Lot Subbase Pl	Pickup Truc	Diesel	600	0.59	34.00105	0.003534	0.010943	3.56E-05	0.000455	0.000418	0.001916	6.45627	
1	2018	Parking Lot Subbase Pl	Roller	Diesel	100	0.59	33.12923	0.003722	0.003768	7.09E-06	0.000485	0.000446	0.000428	1.164111	
1	2018	Parking Lot Topsoil Pla	Dozer	Diesel	175	0.59	38.67733	0.002167	0.005084	1.26E-05	0.000489	0.00045	0.000724	2.141835	
1	2018	Parking Lot Topsoil Pla	Dump Truc	Diesel	600	0.59	38.67733	0.00402	0.012448	4.05E-05	0.000517	0.000476	0.002177	7.344223	
1	2018	Parking Lot Topsoil Pla	Pickup Truc	Diesel	600	0.59	38.67733	0.00402	0.012448	4.05E-05	0.000517	0.000476	0.002177	7.344223	
1	2018	Parking Lot Tree Planti	Flatbed Tru	Diesel	600	0.59	0	0	0	0	0	0	1.58E-05	0	
1	2018	Parking Lot Tree Planti	Other Gen	Diesel	175	0.43	0	0	0	0	0	0	1.48E-05	0	
1	2018	Parking Lot Tree Planti	Pickup Truc	Diesel	600	0.59	0	0	0	0	0	0	1.58E-05	0	
1	2018	Parking Lot Tree Planti	Tractors/Lc	Diesel	100	0.21	0	0	0	0	0	0	3.20E-05	0	
1	2018	Rehabilitat Asphalt Pla	Asphalt Pa	Diesel	175	0.59	127.4766	0.00843	0.019567	4.24E-05	0.001959	0.001802	0.002491	7.058928	
1	2018	Rehabilitat Asphalt Pla	Dump Truc	Diesel	600	0.59	459.1167	0.047724	0.147765	0.000481	0.006138	0.005647	0.025671	87.17911	
1	2018	Rehabilitat Asphalt Pla	Other Gen	Diesel	175	0.43	254.9533	0.010362	0.038011	6.36E-05	0.002583	0.002376	0.004048	10.17709	
1	2018	Rehabilitat Asphalt Pla	Pickup Truc	Diesel	600	0.59	127.4766	0.013251	0.041028	0.000134	0.001704	0.001568	0.007139	24.20582	
1	2018	Rehabilitat Asphalt Pla	Roller	Diesel	100	0.59	127.4766	0.014323	0.014498	2.73E-05	0.001865	0.001716	0.001622	4.479335	
1	2018	Rehabilitat Asphalt Pla	Skid Steer l	Diesel	75	0.21	127.4766	0.01085	0.011015	9.51E-06	0.001619	0.00149	0.002179	1.391464	
1	2018	Rehabilitat Asphalt Pla	Surfacing E	Diesel	25	0.59	163.1701	0.006355	0.011827	1.06E-05	0.000936	0.000861	0.001255	1.431358	
1	2018	Rehabilitat Cold Millin	Cold Planer	Diesel	175	0.59	203.9626	0.013488	0.031307	6.78E-05	0.003134	0.002884	0.003978	11.29429	
1	2018	Rehabilitat Cold Millin	Dump Truc	Diesel	600	0.59	203.9626	0.021201	0.065645	0.000214	0.002727	0.002509	0.011413	38.72932	
1	2018	Rehabilitat Cold Millin	Pickup Truc	Diesel	600	0.59	203.9626	0.021201	0.065645	0.000214	0.002727	0.002509	0.011413	38.72932	
1	2018	Rehabilitat Cold Millin	Sweepers	Diesel	175	0.43	203.9626	0.005817	0.020329	4.81E-05	0.001384	0.001273	0.002752	8.143008	
1	2018	Rehabilitat Cold Millin	Water Truc	Diesel	600	0.59	203.9626	0.021201	0.065645	0.000214	0.002727	0.002509	0.011413	38.72932	
1	2018	Rehabilitat Dust Contr	Water Truc	Diesel	600	0.59	480	0.049894	0.154486	0.000503	0.006417	0.005904	0.026838	91.14452	
1	2018	Rehabilitat Excavation	Dozer	Diesel	175	0.59	67.9872	0.003809	0.008937	2.21E-05	0.000859	0.00079	0.001265	3.764928	
1	2018	Rehabilitat Excavation	Dump Truc	Diesel	600	0.59	226.624	0.023557	0.072938	0.000237	0.00303	0.002788	0.01268	43.03237	
1	2018	Rehabilitat Excavation	Excavator	Diesel	175	0.59	67.9872	0.00294	0.00727	2.14E-05	0.000616	0.000567	0.001193	3.765119	
1	2018	Rehabilitat Excavation	Pickup Truc	Diesel	600	0.59	67.9872	0.007067	0.021881	7.12E-05	0.000909	0.000836	0.003815	12.90971	
1	2018	Rehabilitat Excavation	Roller	Diesel	100	0.59	67.9872	0.007639	0.007732	1.46E-05	0.000995	0.000915	0.000869	2.388967	
1	2018	Rehabilitat Excavation	Dozer	Diesel	175	0.59	31.9942	0.001793	0.004206	1.04E-05	0.000404	0.000372	0.000601	1.771743	
1	2018	Rehabilitat Grading	Dozer	Diesel	175	0.59	21.2698	0.001192	0.002796	6.90E-06	0.000269	0.000247	0.000403	1.177858	
1	2018	Rehabilitat Grading	Grader	Diesel	300	0.59	21.2698	0.001291	0.004171	1.14E-05	0.000218	0.000201	0.000645	2.019292	
1	2018	Rehabilitat Grading	Roller	Diesel	100	0.59	21.2698	0.00239	0.002419	4.55E-06	0.000311	0.000286	0.000278	0.747388	
1	2018	Rehabilitat Hydroseedi	Hydroseed	Diesel	600	0.59	2.12698	0.000221	0.000685	2.23E-06	2.84E-05	2.62E-05	0.000135	0.40388	
1	2018	Rehabilitat Hydroseedi	Off-Road Ti	Diesel	600	0.59	2.12698	0.000221	0.000685	2.23E-06	2.84E-05	2.62E-05	0.000135	0.40388	
1	2018	Rehabilitat Lighting	Dump Truc	Diesel	600	0.59	52.33333	0.00544	0.016843	5.48E-05	0.0007	0.000644	0.00294	9.937285	
1	2018	Rehabilitat Lighting	Loader	Diesel	175	0.59	52.33333	0.003781	0.008815	1.76E-05	0.00089	0.000819	0.001066	2.897822	
1	2018	Rehabilitat Lighting	Other Gen	Diesel	175	0.43	52.33333	0.002127	0.007802	1.31E-05	0.00053	0.000488	0.000843	2.089015	
1	2018	Rehabilitat Lighting	Pickup Truc	Diesel	600	0.59	52.33333	0.00544	0.016843	5.48E-05	0.0007	0.000644	0.00294	9.937285	
1	2018	Rehabilitat Lighting	Skid Steer l	Diesel	75	0.21	52.33333	0.004454	0.004522	3.90E-06	0.000665	0.000612	0.000906	0.571241	
1	2018	Rehabilitat Lighting	Tractors/Lc	Diesel	100	0.21	52.33333	0.005521	0.004392	5.04E-06	0.000786	0.000724	0.000918	0.762468	
1	2018	Rehabilitat Markings	Flatbed Tru	Diesel	600	0.59	2100	0.218288	0.675878	0.002199	0.028077	0.02583	0.117364	398.7573	
1	2018	Rehabilitat Markings	Other Gen	Diesel	175	0.43	2100	0.085351	0.313088	0.000524	0.021273	0.019571	0.033239	83.82671	
1	2018	Rehabilitat Markings	Pickup Truc	Diesel	600	0.59	2100	0.218288	0.675878	0.002199	0.028077	0.02583	0.117364	398.7573	
1	2018	Rehabilitat Sealing Rar	Crack Clear	Diesel	40	0.59	10.5	0.000185	0.000951	8.70E-07	2.74E-05	2.52E-05	5.04E-05	0.14759	
1	2018	Rehabilitat Sealing Rar	Crack Filler	Diesel	100	0.43	10.5	0.000135	0.00014	1.42E-06	5.72E-06	5.26E-06	6.98E-05	0.26636	
1	2018	Rehabilitat Sealing Rar	Flatbed Tru	Diesel	600	0.59	10.5	0.001091	0.003379	1.10E-05	0.00014	0.000129	0.000603	1.993786	
1	2018	Rehabilitat Sealing Rar	Other Gen	Diesel	175	0.43	10.5	0.000427	0.001565	2.62E-06	0.000106	9.79E-05	0.000181	0.419134	
1	2018	Rehabilitat Sealing Rar	Pickup Truc	Diesel	600	0.59	10.5	0.001091	0.003379	1.10E-05	0.00014	0.000129	0.000603	1.993786	
1	2018	Rehabilitat Soil Erosior	Other Gen	Diesel	175	0.43	17.6	0.000715	0.002624	4.39E-06	0.000178	0.000164	0.000293	0.702548	
1	2018	Rehabilitat Soil Erosior	Pickup Truc	Diesel	600	0.59	35.2	0.003659	0.011329	3.69E-05	0.000471	0.000433	0.001983	6.683932	
1	2018	Rehabilitat Soil Erosior	Pumps	Diesel	11	0.43	17.6	0.00041	0.000432	3.64E-07	4.11E-05	3.78E-05	6.16E-05	0.04898	
1	2018	Rehabilitat Soil Erosior	Tractors/Lc	Diesel	100	0.21	17.6	0.001857	0.001477	1.69E-06	0.000264	0.000243	0.00033	0.256422	
1	2018	Rehabilitat Subbase Pl	Dozer	Diesel	175	0.59	214.6975	0.01203	0.028223	6.97E-05	0.002713	0.002496	0.003974	11.8893	
1	2018	Rehabilitat Subbase Pl	Dump Truc	Diesel	600	0.59	1510.836	0.157046	0.486258	0.001582	0.0202	0.018584	0.084442	286.8841	
1	2018	Rehabilitat Subbase Pl	Pickup Truc	Diesel	600	0.59	214.6975	0.022317	0.0691	0.000225	0.00287	0.002641	0.012013	40.76771	
1	2018	Rehabilitat Subbase Pl	Roller	Diesel	100	0.59	209.1926	0.023505	0.023792	4.48E-05	0.003061	0.002816	0.002656	7.35071	
1	2018	Rehabilitat Topsoil Pla	Dozer	Diesel	175	0.59	47.26667	0.002648	0.006213	1.53E-05	0.000597	0.000549	0.000883	2.617486	
1	2018	Rehabilitat Topsoil Pla	Dump Truc	Diesel	600	0.59	47.26667	0.004913	0.015213	4.95E-05	0.000632	0.000581	0.002657	8.975204	
1	2018	Rehabilitat Topsoil Pla	Pickup Truc	Diesel	600	0.59	47.26667	0.004913	0.015213	4.95E-05	0.000632	0.000581	0.002657	8.975204	
2	2019	Building - 1 Concrete Fo	Backhoe	Diesel	100	0.21	480	0.047376	0.037218	4.55E-05	0.006651	0.006119	0.007548	6.995043	
2	2019	Building - 1 Concrete Fo	Concrete P	Diesel	11	0.43	180	0.004188	0.004365	3.72E-06	0.000406	0.000374	0.000612	0.500961	
2	2019	Building - 1 Concrete Fo	Concrete R	Diesel	600	0.59	360	0.034144	0.102066	0.000375	0.004186	0.003851	0.020029	68.35869	
2	2019	Building - 1 Concrete Fo	Excavator	Diesel	175	0.59	160	0.006121	0.014939	4.98E-05	0.001217	0.00112	0.002751	8.860904	
2	2019	Building - 1 Concrete Fo	Fork Truck	Diesel	100	0.59	480	0.015196	0.013885	9.06E-05	0.000804	0.000739	0.004401	16.87107	
2	2019	Building - 1 Concrete Fo	Tool Truck	Diesel	600	0.59	120	0.011381	0.034022	0.000125	0.001395	0.001284	0.006689	22.78623	
2	2019	Building - 1 Concrete Fo	Tractor Tra	Diesel	600	0.59	240	0.022763	0.068044	0.00025	0.002791	0.002568	0.013359	45.57246	
2	2019	Building - 1 Constructic	Survey Cre	Diesel	600	0.59	10	0.000948	0.002835	1.04E-05	0.000116	0.000107	0.000575	1.898852	
2	2019	Building - 1 Constructic	Tractor Tra	Diesel	600	0.59	4	0.000379	0.001134	4.16E-06	4.65E-05	4.28E-05	0.000242	0.759541	
2	2019	Building - 1 Exterior Wa	Fork Truck	Diesel	100	0.59	840	0.026593	0.024298	0.000159	0.001406	0.001294	0.007701	29.52437	
2	2019	Building - 1 Exterior Wa	Generator	Diesel	40	0.43	80	0.001952	0.006305	5.28E-06	0.000377	0.000347	0.00052	0.81093	
2	2019	Building - 1 Exterior Wa	Grout Mixe	Diesel	600	0.59	420	0.176511	0.412766	0.000511	0.025156	0.023143	0.032602	79.72656	
2	2019	Building - 1 Exterior Wa	Grout Whe	Diesel	600	0.59	160	0.015175	0.045363	0.000166	0.001861	0.001712	0.008913	30.38164	
2	2019	Building - 1 Exterior Wa	Man Lift	Diesel	75	0.21	1680	0.12289	0.143431	0.000124	0.017009	0.015649	0.02476	18.34812	
2	2019	Building - 1 Exterior Wa	Tool Truck	Diesel	600	0.59	420	0.039834	0.119077	0.000437	0.004884	0.004493	0.023364	79.7518	
2	2019	Building - 1 Exterior Wa	Tractor Tra	Diesel	600	0.59	840	0.079669	0.238155	0.000874	0.009768	0.008986	0.046708	159.5036	
2	2019	Building - 1 Exterior Wa	Truck Towe	Diesel	300	0.43	80	0.003172	0.01437	3.22E-05	0.000627	0.000577	0.001869	5.47528	
2	2019	Building - 1 Interior Bui	Fork Truck	Diesel	100	0.59	1600	0.050653	0.046282	0.000302	0.002679	0.002464	0.014667	56.23689	
2	2019	Building - 1 Interior Bui	Man Lift	Diesel	75	0.21	3200	0.234076	0.273201	0.000236	0.032399	0.029807	0.047149	34.94879	
2	2019	Building - 1 Interior Bui	Tool Truck	Diesel	600	0.59	1600	0.15175	0.453628	0.001665	0.018605	0.017117	0.088951	303.8164	
2	2019	Building - 1 Interior Bui	Tractor Tra	Diesel	600	0.59	1600	0.15175	0.453628	0.001665	0.018605	0.017117	0.088951	303.8164	
2	2019	Building - 1 Roofing	High Lift	Diesel	100	0.59	160	0.005065	0.004628	3.02E-05	0.000268	0.000246	0.001468	5.623689	
2	2019	Building - 1 Roofing	Man Lift	Diesel	75	0.21	40	0.002926	0.003415	2.95E-06	0.000405	0.000373	0.000604	0.43686	
2	2019	Building - 1 Roofing	Material De	Diesel	600	0.59	60	0.005691	0.017011	6.24E-05	0.000698	0.000642	0.003354	11.39311	
2	2019	Building - 1 Roofing	Tractor Tra	Diesel	600	0.59	40	0.003794	0.011341	4.16E-05	0.000465	0.000428	0.002243	7.59541	
2	2019	Building - 1 Roofing	Truck Towe	Diesel	300	0.43	120	0.004758	0.021555	4.83E-05	0.000941	0.000866	0.002794	8.21292	
2	2019	Building - 1 Security & S	High Lift	Diesel	100	0.59	800	0.025326	0.023141	0.000151	0.001339	0.001232	0.007334	28.11845	
2	2019	Building - 1 Security & S	Tool Truck	Diesel	600	0.59	800	0.075875	0.226814	0.000832	0.009303	0.008558	0.044485	151.9082	
2	2019	Building - 1 Structural S	90 Ton Cra	Diesel	300	0.43	240	0.009515	0.043111	9.65E-05	0.001882	0.001732	0.005566	16.42584	
2	2019	Building - 1 Structural S	Concrete P	Diesel	11	0.43	60	0.001396	0.001455	1.24E-06	0.000135	0.000125	0.000205	0.166987	
2	2019	Building - 1 Structural S	Concrete T	Diesel	600	0.59	60	0.005691	0.017011	6.24E-05	0.000698	0.000642	0.003354	11.39311	
2	2019	Building - 1 Structural S	Fork Truck	Diesel	100	0.59	640	0.020261	0.018513	0.000121	0.001071	0.000986	0.005868	22.49476	
2	2019	Building - 1 Structural S	Tool Truck	Diesel	600	0.59	160	0.015175	0.045363	0.000166	0.001861	0.001712	0.008913	30.38164	
2	2019	Building - 1 Structural S	Tractor Tra	Diesel	600	0.59	360	0.034144	0.102066	0.000375	0.004186	0.003851	0.020029	68.35869	
2	2019	Building - 1 Structural S	Trowel Ma	Diesel	600	0.59	40	0.016811	0.039311	4.87E-05	0.002396	0.002204	0.00317	7.593005	
2	2019	Building - 1 Structural S	Truck Towe	Diesel	300	0.43	720	0.028546	0.129333	0.00029	0.005647	0.005196	0.016657	49.27752	
2	2019	Cargo Apro	Clearing an	Chain Saw	Diesel	11	0.7	46.8	0.116601	0.000526	5.57E-05	0.003872	0.003563	0.02645	0.247206 *** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	2019	Cargo Apro	Clearing an	Chipper/St	Diesel	100	0.43	46.8	0.004023	0.007186	7.79E-06	0.000706	0.000649	0.000831	1.185788
2	2019	Cargo Apro	Clearing an	Pickup Truc	Diesel	600	0.59	62.4	0.005918	0.017692	6.49E-05	0.000726	0.000668	0.003488	11.84884
2	2019	Cargo Apro	Concrete P	Air Compre	Diesel	100	0.43	59.3848	0.003492	0.005741	9.32E-06	0.000511	0.00047	0.000646	1.505804
2	2019	Cargo Apro	Concrete P	Concrete S	Diesel	40	0.59	59.3848	0.000928	0.00525	4.83E-06	0.000133	0.000122	0.000272	0.834757
2	2019	Cargo Apro	Concrete P	Concrete T	Diesel	600	0.59	247.4367	0.023468	0.070153	0.000257	0.002877	0.002647	0.013772	46.98457
2	2019	Cargo Apro	Concrete P	Other Gen	Diesel	175	0.43	118.7696	0.004304	0.015754	2.91E-05	0.001057	0.000972	0.001824	4.741187
2	2019	Cargo Apro	Concrete P	Pickup Truc	Diesel	600	0.59	178.1544	0.016897	0.05051	0.000185	0.002072	0.001906	0.009922	33.82889
2	2019	Cargo Apro	Concrete P	Rubber Tir	Diesel	175	0.59	59.3848	0.003761	0.008774	1.96E-05	0.000861	0.000792	0.00117	3.288392
2	2019	Cargo Apro	Concrete P	Slip Form P	Diesel	175	0.59	59.3848	0.00344	0.00795	1.94E-05	0.000775	0.000713	0.001133	3.288491
2	2019	Cargo Apro	Concrete P	Surfacing E	Diesel	25	0.59	59.3848	0.002305	0.004305	3.87E-06	0.000341	0.000314	0.000457	0.520935
2	2019	Cargo Apro	Drainage -	Dozer	Diesel	175	0.59	20.864	0.001025	0.002387	6.66E-06	0.000222	0.000205	0.000388	1.155413
2	2019	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	20.864	0.001979	0.005915	2.17E-05	0.000243	0.000223	0.001179	3.961766
2	2019	Cargo Apro	Drainage -	Excavator	Diesel	175	0.59	20.864	0.000798	0.001948	6.49E-06	0.000159	0.000146	0.000367	1.155462
2	2019	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	20.864	0.001321	0.003083	6.89E-06	0.000303	0.000278	0.000421	1.15533
2	2019	Cargo Apro	Drainage -	Other Gen	Diesel	175	0.43	20.864	0.000756	0.002768	5.10E-06	0.000186	0.000171	0.000336	0.832874
2	2019	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	20.864	0.001979	0.005915	2.17E-05	0.000243	0.000223	0.001179	3.961766
2	2019	Cargo Apro	Drainage -	Roller	Diesel	100	0.59	20.864	0.002057	0.002073	4.38E-06	0.000259	0.000238	0.000263	0.733163
2	2019	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	11.59111	0.001099	0.003286	1.21E-05	0.000135	0.000124	0.000664	2.200981
2	2019	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	11.59111	0.000734	0.001713	3.83E-06	0.000168	0.000155	0.000241	0.64185
2	2019	Cargo Apro	Drainage -	Other Gen	Diesel	175	0.43	11.59111	0.00042	0.001538	2.84E-06	0.000103	9.49E-05	0.000195	0.462708
2	2019	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	11.59111	0.001099	0.003286	1.21E-05	0.000135	0.000124	0.000664	2.200981

ACEIT Output - Modified Asphalt Application Rates

2	2019	Cargo Apro	Drainage -	Tractors/Lc	Diesel	100	0.21	11.59111	0.001144	0.000899	1.10E-06	0.000161	0.000148	0.000225	0.168917
2	2019	Cargo Apro	Dust Contr	Water Truc	Diesel	600	0.59	720	0.068288	0.204133	0.000749	0.008372	0.007703	0.040039	136.7174
2	2019	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	98.97467	0.004861	0.011323	3.16E-05	0.001055	0.000971	0.001793	5.48105
2	2019	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	98.97467	0.009387	0.028061	0.000103	0.001151	0.001059	0.005521	18.79383
2	2019	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	98.97467	0.009387	0.028061	0.000103	0.001151	0.001059	0.005521	18.79383
2	2019	Cargo Apro	Excavation	Roller	Diesel	100	0.59	45.68062	0.004503	0.004538	9.58E-06	0.000567	0.000521	0.000563	1.605221
2	2019	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	74.231	0.003646	0.008492	2.37E-05	0.000791	0.000728	0.001348	4.110787
2	2019	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	197.9493	0.018774	0.056122	0.000206	0.002302	0.002118	0.011022	37.58766
2	2019	Cargo Apro	Excavation	Excavator	Diesel	175	0.59	59.3848	0.002272	0.005545	1.85E-05	0.000452	0.000416	0.001027	3.288769
2	2019	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	59.3848	0.005632	0.016837	6.18E-05	0.000691	0.000635	0.00332	11.2763
2	2019	Cargo Apro	Excavation	Roller	Diesel	100	0.59	59.3848	0.005854	0.0059	1.25E-05	0.000737	0.000678	0.000728	2.086787
2	2019	Cargo Apro	Excavation	Scraper	Diesel	600	0.59	74.231	0.018108	0.044523	8.51E-05	0.002722	0.002504	0.004617	14.09417
2	2019	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	27.94588	0.001373	0.003197	8.92E-06	0.000298	0.000274	0.000515	1.547596
2	2019	Cargo Apro	Fencing	Concrete T	Diesel	600	0.59	7.133333	0.000677	0.002022	7.42E-06	8.29E-05	7.63E-05	0.000416	1.354515
2	2019	Cargo Apro	Fencing	Dump Truc	Diesel	600	0.59	28.53333	0.002706	0.00809	2.97E-05	0.000332	0.000305	0.001605	5.418059
2	2019	Cargo Apro	Fencing	Other Gen	Diesel	175	0.43	28.53333	0.001034	0.003785	6.98E-06	0.000254	0.000234	0.000453	1.139028
2	2019	Cargo Apro	Fencing	Pickup Truc	Diesel	600	0.59	28.53333	0.002706	0.00809	2.97E-05	0.000332	0.000305	0.001605	5.418059
2	2019	Cargo Apro	Fencing	Skid Steer l	Diesel	75	0.21	28.53333	0.00228	0.00239	2.10E-06	0.000337	0.00031	0.000477	0.311548
2	2019	Cargo Apro	Fencing	Tractors/Lc	Diesel	100	0.21	28.53333	0.002816	0.002212	2.71E-06	0.000395	0.000364	0.00049	0.415816
2	2019	Cargo Apro	Grading	Dozer	Diesel	175	0.59	18.8167	0.000924	0.002153	6.01E-06	0.000201	0.000185	0.000351	1.042037
2	2019	Cargo Apro	Grading	Grader	Diesel	300	0.59	18.8167	0.001017	0.00323	1.00E-05	0.000166	0.000152	0.000565	1.786427
2	2019	Cargo Apro	Grading	Roller	Diesel	100	0.59	18.8167	0.001855	0.001869	3.95E-06	0.000233	0.000215	0.000239	0.661221
2	2019	Cargo Apro	Hydroseedi	Hydroseed	Diesel	600	0.59	16.952	0.001608	0.004806	1.76E-05	0.000197	0.000181	0.000962	3.218935
2	2019	Cargo Apro	Hydroseedi	Off-Road T	Diesel	600	0.59	16.952	0.001608	0.004806	1.76E-05	0.000197	0.000181	0.000962	3.218935
2	2019	Cargo Apro	Lighting	Dump Truc	Diesel	600	0.59	11.89333	0.001128	0.003372	1.24E-05	0.000138	0.000127	0.00068	2.258368
2	2019	Cargo Apro	Lighting	Loader	Diesel	175	0.59	11.89333	0.000753	0.001757	3.93E-06	0.000172	0.000159	0.000247	0.658585
2	2019	Cargo Apro	Lighting	Other Gen	Diesel	175	0.43	11.89333	0.000431	0.001578	2.91E-06	0.000106	9.73E-05	0.0002	0.474772
2	2019	Cargo Apro	Lighting	Pickup Truc	Diesel	600	0.59	11.89333	0.001128	0.003372	1.24E-05	0.000138	0.000127	0.00068	2.258368
2	2019	Cargo Apro	Lighting	Skid Steer l	Diesel	75	0.21	11.89333	0.000951	0.000996	8.77E-07	0.00014	0.000129	0.000215	0.12986
2	2019	Cargo Apro	Lighting	Tractors/Lc	Diesel	100	0.21	11.89333	0.001174	0.000922	1.13E-06	0.000165	0.000152	0.00023	0.173322
2	2019	Cargo Apro	Markings	Flatbed Tru	Diesel	600	0.59	366.8571	0.034794	0.104011	0.000382	0.004266	0.003925	0.02041	69.66076
2	2019	Cargo Apro	Markings	Other Gen	Diesel	175	0.43	366.8571	0.013293	0.048662	8.97E-05	0.003264	0.003002	0.005594	14.64464
2	2019	Cargo Apro	Markings	Pickup Truc	Diesel	600	0.59	366.8571	0.034794	0.104011	0.000382	0.004266	0.003925	0.02041	69.66076
2	2019	Cargo Apro	Sealing/Fu	Distributing	Diesel	600	0.59	47.508	0.004506	0.013469	4.94E-05	0.000552	0.000508	0.00266	9.021068
2	2019	Cargo Apro	Sealing/Fu	Other Gen	Diesel	175	0.43	47.508	0.001721	0.006302	1.16E-05	0.000423	0.000389	0.000741	1.896481
2	2019	Cargo Apro	Sealing/Fu	Pickup Truc	Diesel	600	0.59	47.508	0.004506	0.013469	4.94E-05	0.000552	0.000508	0.00266	9.021068
2	2019	Cargo Apro	Soil Erosior	Other Gen	Diesel	175	0.43	15.6	0.000565	0.002069	3.82E-06	0.000139	0.000128	0.000256	0.622739
2	2019	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	600	0.59	31.2	0.002959	0.008846	3.25E-05	0.000363	0.000334	0.001754	5.924419
2	2019	Cargo Apro	Soil Erosior	Pumps	Diesel	11	0.43	15.6	0.000363	0.000378	3.23E-07	3.52E-05	3.24E-05	5.41E-05	0.043417
2	2019	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	100	0.21	15.6	0.00154	0.00121	1.48E-06	0.000216	0.000199	0.000288	0.227339
2	2019	Cargo Apro	Subbase Pl	Dozer	Diesel	175	0.59	37.50632	0.001842	0.004291	1.20E-05	0.0004	0.000368	0.000687	2.077036
2	2019	Cargo Apro	Subbase Pl	Dump Truc	Diesel	600	0.59	263.9333	0.025032	0.07483	0.000275	0.003069	0.002824	0.014689	50.11704
2	2019	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	600	0.59	37.50632	0.003557	0.010634	3.90E-05	0.000436	0.000401	0.002104	7.121896
2	2019	Cargo Apro	Subbase Pl	Roller	Diesel	100	0.59	36.54462	0.003602	0.003631	7.66E-06	0.000453	0.000417	0.000453	1.284181
2	2019	Cargo Apro	Topsoil Pla	Dozer	Diesel	175	0.59	41.81467	0.002054	0.004784	1.34E-05	0.000446	0.00041	0.000765	2.315626
2	2019	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	600	0.59	41.81467	0.003966	0.011855	4.35E-05	0.000486	0.000447	0.002344	7.939988
2	2019	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	600	0.59	41.81467	0.003966	0.011855	4.35E-05	0.000486	0.000447	0.002344	7.939988
2	2019	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	30.28225	0.001754	0.004054	9.88E-06	0.000395	0.000364	0.000585	1.676909
2	2019	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	109.0638	0.010344	0.030922	0.000113	0.001268	0.001167	0.006081	20.70961
2	2019	Parking Lot	Asphalt Pla	Other Gen	Diesel	175	0.43	60.5645	0.002195	0.008034	1.48E-05	0.000539	0.000496	0.00094	2.417686
2	2019	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	30.28225	0.002872	0.008586	3.15E-05	0.000352	0.000324	0.001703	5.750152
2	2019	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	30.28225	0.002985	0.003009	6.35E-06	0.000376	0.000346	0.000377	1.064121
2	2019	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	75	0.21	30.28225	0.00242	0.002537	2.23E-06	0.000358	0.000329	0.000505	0.330644
2	2019	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	38.76128	0.001504	0.00281	2.53E-06	0.000222	0.000205	0.000298	0.340022
2	2019	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	64.8	0.161448	0.000728	7.71E-05	0.005362	0.004933	0.035906	0.342285 *** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	2019	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	64.8	0.00557	0.00995	1.08E-05	0.000977	0.000899	0.001149	1.64186
2	2019	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	86.4	0.008195	0.024496	8.99E-05	0.001005	0.000924	0.004822	16.40608
2	2019	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	29.1	0.00276	0.00825	3.03E-05	0.000338	0.000311	0.001637	5.52566
2	2019	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	29.1	0.001686	0.003896	9.49E-06	0.00038	0.000349	0.000563	1.611441
2	2019	Parking Lot	Curbing	Other Gen	Diesel	175	0.43	29.1	0.001054	0.00386	7.12E-06	0.000259	0.000238	0.000461	1.161649
2	2019	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	29.1	0.00276	0.00825	3.03E-05	0.000338	0.000311	0.001637	5.52566
2	2019	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	46.88	0.002303	0.005363	1.50E-05	0.0005	0.00046	0.000856	2.596135
2	2019	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	46.88	0.004446	0.013291	4.88E-05	0.000545	0.000502	0.002625	8.90182
2	2019	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	46.88	0.001793	0.004377	1.46E-05	0.000357	0.000328	0.000813	2.596245
2	2019	Parking Lot	Drainage -	Loader	Diesel	175	0.59	46.88	0.002969	0.006927	1.55E-05	0.00068	0.000626	0.000927	2.595948
2	2019	Parking Lot	Drainage -	Other Gen	Diesel	175	0.43	46.88	0.001699	0.006218	1.15E-05	0.000417	0.000384	0.000732	1.871412
2	2019	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	46.88	0.004446	0.013291	4.88E-05	0.000545	0.000502	0.002625	8.90182
2	2019	Parking Lot	Drainage -	Roller	Diesel	100	0.59	46.88	0.004621	0.004658	9.83E-06	0.000582	0.000535	0.000577	1.647368
2	2019	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	78.13333	0.00741	0.022152	8.13E-05	0.000909	0.000836	0.004362	14.83637
2	2019	Parking Lot	Drainage -	Loader	Diesel	175	0.59	78.13333	0.004949	0.011545	2.58E-05	0.001133	0.001043	0.001535	4.326579
2	2019	Parking Lot	Drainage -	Other Gen	Diesel	175	0.43	78.13333	0.002831	0.010364	1.91E-05	0.000695	0.000639	0.001206	3.11902
2	2019	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	78.13333	0.00741	0.022152	8.13E-05	0.000909	0.000836	0.004362	14.83637
2	2019	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	78.13333	0.007712	0.006058	7.41E-06	0.001083	0.000996	0.001265	1.138638
2	2019	Parking Lot	Excavation	Dozer	Diesel	175	0.59	134.588	0.00661	0.015398	4.30E-05	0.001434	0.00132	0.002434	7.453256
2	2019	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	134.588	0.012765	0.038158	0.00014	0.001565	0.00144	0.0075	25.55627
2	2019	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	134.588	0.012765	0.038158	0.00014	0.001565	0.00144	0.0075	25.55627
2	2019	Parking Lot	Excavation	Roller	Diesel	100	0.59	62.11754	0.006123	0.006171	1.30E-05	0.000771	0.000709	0.000761	2.182816
2	2019	Parking Lot	Excavation	Dozer	Diesel	175	0.59	100.941	0.004958	0.011548	3.22E-05	0.001076	0.00099	0.001828	5.589942
2	2019	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	269.176	0.02553	0.076316	0.00028	0.00313	0.00288	0.014981	51.11255
2	2019	Parking Lot	Excavation	Excavator	Diesel	175	0.59	80.7528	0.003089	0.00754	2.51E-05	0.000614	0.000565	0.001393	4.472143
2	2019	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	80.7528	0.007659	0.022895	8.40E-05	0.000939	0.000864	0.004508	15.33376
2	2019	Parking Lot	Excavation	Roller	Diesel	100	0.59	80.7528	0.00796	0.008023	1.69E-05	0.001002	0.000922	0.000986	2.837661
2	2019	Parking Lot	Excavation	Scraper	Diesel	600	0.59	100.941	0.024623	0.060543	0.000116	0.003701	0.003405	0.00626	19.16557
2	2019	Parking Lot	Excavation	Dozer	Diesel	175	0.59	38.00125	0.001866	0.004348	1.21E-05	0.000405	0.000373	0.000696	2.104445
2	2019	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	16.16667	0.001533	0.004584	1.68E-05	0.000188	0.000173	0.000918	3.069811
2	2019	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	64.66667	0.006133	0.018334	6.73E-05	0.000752	0.000692	0.003614	12.27925
2	2019	Parking Lot	Fencing	Other Gen	Diesel	175	0.43	64.66667	0.002343	0.008578	1.58E-05	0.000575	0.000529	0.001002	2.581441
2	2019	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	64.66667	0.006133	0.018334	6.73E-05	0.000752	0.000692	0.003614	12.27925
2	2019	Parking Lot	Fencing	Skid Steer l	Diesel	75	0.21	64.66667	0.005168	0.005417	4.77E-06	0.000764	0.000703	0.001046	0.706078
2	2019	Parking Lot	Fencing	Tractors/Lc	Diesel	100	0.21	64.66667	0.006383	0.005014	6.14E-06	0.000896	0.000824	0.001055	0.942388
2	2019	Parking Lot	Grading	Dozer	Diesel	175	0.59	26.0184	0.001278	0.002977	8.31E-06	0.000277	0.000255	0.000481	1.440855
2	2019	Parking Lot	Grading	Grader	Diesel	300	0.59	26.0184	0.001406	0.004466	1.38E-05	0.000229	0.000211	0.000777	2.470145
2	2019	Parking Lot	Grading	Roller	Diesel	100	0.59	26.0184	0.002565	0.002585	5.46E-06	0.000323	0.000297	0.000326	0.914289
2	2019	Parking Lot	Hydroseedi	Hydroseed	Diesel	600	0.59	23.44	0.002223	0.006646	2.44E-05	0.000273	0.000251	0.001322	4.45091
2	2019	Parking Lot	Hydroseedi	Off-Road T	Diesel	600	0.59	23.44	0.002223	0.006646	2.44E-05	0.000273	0.000251	0.001322	4.45091
2	2019	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	7.337143	0.000696	0.00208	7.63E-06	8.53E-05	7.85E-05	0.000427	1.393215
2	2019	Parking Lot	Markings	Other Gen	Diesel	175	0.43	7.337143	0.000266	0.000973	1.79E-06	6.53E-05	6.00E-05	0.000131	0.292893
2	2019	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	7.337143	0.000696	0.00208	7.63E-06	8.53E-05	7.85E-05	0.000427	1.393215
2	2019	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	58.2	0.00552	0.016501	6.06E-05	0.000677	0.000623	0.003254	11.05132
2	2019	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	58.2	0.00552	0.016501	6.06E-05	0.000677	0.000623	0.003254	11.05132
2	2019	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	58.2	0.00552	0.016501	6.06E-05	0.000677	0.000623	0.003254	11.05132
2	2019	Parking Lot	Sidewalks	Tractors/Lc	Diesel	100	0.21	58.2	0.005744	0.004513	5.52E-06	0.000806	0.000742	0.000954	0.848149
2	2019	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	58.2	0.000737	0.000741	6.57E-07	6.62E-05	6.09E-05	0.000103	0.088366
2	2019	Parking Lot	Soil Erosior	Other Gen	Diesel	175	0.43	21.6	0.000783	0.002865	5.28E-06	0.000192	0.000177	0.000347	0.862255
2	2019	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	43.2	0.004097	0.012248	4.49E-05	0.000502	0.000462	0.002421	8.203042
2	2019	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	21.6	0.000503	0.000524	4.47E-07	4.87E-05	4.48E-05	7.45E-05	0.060115
2	2019	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	100	0.21	21.6	0.002132	0.001675	2.05E-06	0.000299	0.000275	0.000382	0.314777
2	2019	Parking Lot	Street Light	Dump Truc	Diesel	600	0.59	14.66667	0.001391	0.004158	1.53E-05	0.000171	0.000157	0.000835	2.784984
2	2019	Parking Lot	Street Light	Loader	Diesel	175	0.59	14.66667	0.000929	0.002167	4.85E-06	0.000213	0.000196	0.000301	0.812157
2	2019	Parking Lot	Street Light	Other Gen	Diesel	175	0.43	14.66667	0.000531	0.001945	3.59E-06	0.00013	0.00012	0.000242	0.585482
2	2019	Parking Lot	Street Light	Pickup Truc	Diesel	600	0.59	14.66667	0.001391	0.004158	1.53E-05	0.000171	0.000157	0.000835	2.784984
2	2019	Parking Lot	Street Light	Skid Steer l	Diesel	75	0.21	14.66667	0.001172	0.001229	1.08E-06	0.000173	0.000159	0.000259	0.160141
2	2019	Parking Lot	Street Light	Tractors/Lc	Diesel	100	0.21	14.66667	0.001448	0.001137	1.39E-06	0.000203	0.000187	0.000273	0.213737
2	2019	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	51.00168	0.002505	0.005835	1.63E-05	0.000544	0.0005	0.00093	2.824387
2	2019	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	358.9022	0.03404	0.101755	0.000373	0.004173	0.00384	0.019968	68.15023
2	2019	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	51.00168	0.004837	0.01446	5.31E-05	0.000593	0.000546	0.002854	9.684467
2	2019	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	49.69415	0.004898	0.004937	1.04E-05	0.000617	0.000567	0.000611	1.746257
2	2019	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	57.81867	0.00284	0.006615	1.85E-05	0.000616	0.000567	0.001053	3.2019
2	2019	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	57.81867	0.005484	0.016393	6.02E-05	0.000672	0.000619	0.003233	10.97891
2	2019	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	57.81867	0.005484	0.016393	6.02E-05	0.000672	0.000619	0.003233	10.97891
2	2019	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0	0	0	0	0	0	1.94E-05	0
2	2019	Parking Lot	Tree Planti	Other Gen	Diesel	175	0.43	0	0	0	0	0	0	1.92E-05	0
2	2019	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0	0	0	0	0	0	1.94E-05	0
2	2019	Parking Lot	Tree Planti	Tractors/Lc	Diesel	100	0.21	0	0	0	0	0	0	4.39E-05	0
3	2019	Building - 1	Concrete Fo	Backhoe	Diesel	100	0.21	480	0.047376	0.037218	4.55E-05	0.006651	0.006119	0.00762	6.995044
3	2019	Building - 1	Concrete Fo	Concrete P	Diesel	11	0.43	180	0.004188	0.004365	3.72E-06	0.000406	0.000374	0.000613	0.500961
3	2019	Building - 1	Concrete Fo	Concrete R	Diesel	600	0.59	360	0.034144	0.102066	0.000375	0.004186	0.003851	0.020061	68.35869
3	2019	Building - 1	Concrete Fo	Excavator	Diesel	175	0.59	160	0.006121	0.014939	4.98E-05	0.001217	0.00112	0.002767	8.860906
3	2019	Building - 1	Concrete Fo	Fork Truck	Diesel	100	0.59	480	0.015196	0.013885	9.06E-05	0.000804	0.000739	0.004403	16.87107
3	2019	Building - 1	Concrete Fo	Tool Truck	Diesel	600	0.59	120	0.011381	0.034022	0.000125	0.001395	0.001284	0.006721	22.78623
3	2019	Building - 1	Concrete Fo	Tractor Tra	Diesel	600	0.59	240	0.022763	0.068044	0.00025	0.002791	0.002568	0.013391	45.57246
3	2019	Building - 1	Constructic	Survey Cre	Diesel	600	0.59	10	0.000948	0.002835	1.04E-05	0.000116	0.000107	0.000607	1.898852
3	2019	Building - 1	Constructic	Tractor Tra	Diesel	600	0.59	4	0.000379	0.001134	4.16E-06	4.65E-05	4.28E-05	0.000274	0.759541
3	2019	Building - 1	Exterior Wa	Fork Truck	Diesel	100	0.59	840	0.026593	0.024298	0.000159	0.001406	0.001294	0.007703	29.52437
3	2019	Building - 1	Exterior Wa	Generator	Diesel	40	0.43	80	0.001952	0.006305	5.28E-06	0.000377	0.000347	0.000524	0.81093
3	2019	Building - 1	Exterior Wa	Grout Mixe	Diesel	600	0.59	420	0.176511	0.412766	0.000511	0.025156	0.023143	0.03272	79.72655
3	2019	Building - 1	Exterior Wa	Grout Whe	Diesel	600	0.59	160	0.015175	0.045363	0.000166	0.001861	0.001712	0.008944	30.38164
3	2019	Building - 1	Exterior Wa	Man Lift	Diesel	75	0.21	1680	0.12289	0.143431	0.000124	0.017009	0.015649	0.024774	18.34812
3	2019	Building - 1	Exterior Wa	Tool Truck	Diesel	600	0.59	420	0.039834	0.119077	0.000437	0.004884	0.004493	0.023396	79.7518
3	2019	Building - 1	Exterior Wa	Tractor Tra	Diesel	600	0.59	840	0.079669	0.238155	0.000874	0.009768	0.008986	0.04674	159.5036
3	2019	Building - 1	Exterior Wa	Truck Towe	Diesel	300	0.43	80	0.003172	0.01437	3.22E-05	0.000627	0.000577	0.001904	5.47528
3	2019	Building - 1	Interior Bui	Fork Truck	Diesel	100	0.59	1600	0.050653	0.046282	0.000302	0.002679	0.002464	0.014669	56.23689
3	2019	Building - 1	Interior Bui	Man Lift	Diesel	75	0.21	3200	0.234076	0.273201	0.000236	0.032399	0.029807	0.047163	34.94879
3	2019	Building - 1	Interior Bui	Tool Truck	Diesel	600	0.59	1600	0.15175	0.453628	0.001665	0.018605	0.017117	0.088983	303.8164
3	2019	Building - 1	Interior Bui	Tractor Tra	Diesel	600	0.59	1600	0.15175	0.453628	0.001665	0.018605	0.017117	0.088983	303.8164
3	2019	Building - 1	Roofing	High Lift	Diesel	100	0.59	160	0.005065	0.004628	3.02E-05	0.000268	0.000246	0.00147	5.623689
3	2019	Building - 1	Roofing	Man Lift	Diesel	75	0.21	40	0.002926	0.003415	2.95E-06	0.000405	0.000373	0.000618	0.43686
3	2019	Building - 1	Roofing	Material De	Diesel	600	0.59	60	0.005691	0.017011	6.24E-05	0.000698	0.000642	0.003386	11.39311
3	2019	Building - 1	Roofing	Tractor Tra	Diesel	600	0.59	40	0.003794	0.011341	4.16E-05	0.000465	0.000428	0.002275	7.59541
3	2019	Building - 1	Roofing	Truck Towe	Diesel	300	0.43	120	0.004758	0.021555	4.83E-05	0.000941	0.000866	0.002828	8.212919
3	2019	Building - 1	Security &	High Lift	Diesel	100	0.59	800	0.025326	0.023141	0.000151	0.001339	0.001232	0.007336	28.11845
3	2019	Building - 1	Security &	Tool Truck	Diesel	600	0.59	800	0.075875	0.226814	0.000832	0.009303	0.008558	0.044517	151.9082
3	2019	Building - 1	Structural S	90 Ton Cra	Diesel	300	0.43	240	0.009515	0.043111	9.65E-05	0.001882	0.001732	0.005601	16.42584

ACEIT Output - Modified Asphalt Application Rates

3	2019	Building - 1	Structural S	Concrete P	Diesel	11	0.43	60	0.001396	0.001455	1.24E-06	0.000135	0.000125	0.000206	0.166987	
3	2019	Building - 1	Structural S	Concrete T	Diesel	600	0.59	60	0.005691	0.017011	6.24E-05	0.000698	0.000642	0.003386	11.39311	
3	2019	Building - 1	Structural S	Fork Truck	Diesel	100	0.59	640	0.020261	0.018513	0.000121	0.001071	0.000986	0.005869	22.49476	
3	2019	Building - 1	Structural S	Tool Truck	Diesel	600	0.59	160	0.015175	0.045363	0.000166	0.001861	0.001712	0.008944	30.38164	
3	2019	Building - 1	Structural S	Tractor Tra	Diesel	600	0.59	360	0.034144	0.102066	0.000375	0.004186	0.003851	0.020061	68.35869	
3	2019	Building - 1	Structural S	Trowel Ma	Diesel	600	0.59	40	0.016811	0.039311	4.87E-05	0.002396	0.002204	0.003287	7.593005	
3	2019	Building - 1	Structural S	Truck Towe	Diesel	300	0.43	720	0.028546	0.129333	0.00029	0.005647	0.005196	0.016691	49.27752	
3	2019	Cargo Apro	Clearing an	Chain Saw	Diesel	11	0.7	62.4	0.155468	0.000701	7.43E-05	0.005163	0.00475	0.03652	0.329608	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	2019	Cargo Apro	Clearing an	Chipper/St	Diesel	100	0.43	62.4	0.005364	0.009582	1.04E-05	0.000941	0.000865	0.001167	1.581051	
3	2019	Cargo Apro	Clearing an	Pickup Truc	Diesel	600	0.59	83.2	0.007891	0.023589	8.66E-05	0.000967	0.00089	0.004676	15.79845	
3	2019	Cargo Apro	Concrete P	Air Compre	Diesel	100	0.43	79.0872	0.004651	0.007646	1.24E-05	0.000681	0.000626	0.000871	2.005392	
3	2019	Cargo Apro	Concrete P	Concrete S	Diesel	40	0.59	79.0872	0.001235	0.006991	6.44E-06	0.000177	0.000162	0.000362	1.111708	
3	2019	Cargo Apro	Concrete P	Concrete T	Diesel	600	0.59	329.53	0.031254	0.093428	0.000343	0.003832	0.003525	0.018367	62.57288	
3	2019	Cargo Apro	Concrete P	Other Gene	Diesel	175	0.43	158.1744	0.005731	0.020981	3.87E-05	0.001407	0.001295	0.002441	6.314195	
3	2019	Cargo Apro	Concrete P	Pickup Truc	Diesel	600	0.59	237.2616	0.022503	0.067268	0.000247	0.002759	0.002538	0.013239	45.05248	
3	2019	Cargo Apro	Concrete P	Rubber Tire	Diesel	175	0.59	79.0872	0.005009	0.011686	2.61E-05	0.001147	0.001055	0.001579	4.3794	
3	2019	Cargo Apro	Concrete P	Slip Form P	Diesel	175	0.59	79.0872	0.004581	0.010588	2.58E-05	0.001032	0.00095	0.001528	4.379531	
3	2019	Cargo Apro	Concrete P	Surfacing E	Diesel	25	0.59	79.0872	0.00307	0.005733	5.16E-06	0.000454	0.000418	0.000608	0.693769	
3	2019	Cargo Apro	Drainage -	Dozer	Diesel	175	0.59	27.68	0.00136	0.003167	8.84E-06	0.000295	0.000271	0.000531	1.532872	
3	2019	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	27.68	0.002625	0.007848	2.88E-05	0.000322	0.000296	0.00159	5.256023	
3	2019	Cargo Apro	Drainage -	Excavator	Diesel	175	0.59	27.68	0.001059	0.002585	8.61E-06	0.000211	0.000194	0.000499	1.532937	
3	2019	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	27.68	0.001753	0.00409	9.15E-06	0.000401	0.000369	0.00058	1.532761	
3	2019	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	27.68	0.001003	0.003672	6.77E-06	0.000246	0.000227	0.000458	1.104963	
3	2019	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	27.68	0.002625	0.007848	2.88E-05	0.000322	0.000296	0.00159	5.256023	
3	2019	Cargo Apro	Drainage -	Roller	Diesel	100	0.59	27.68	0.002728	0.00275	5.81E-06	0.000343	0.000316	0.000365	0.972678	
3	2019	Cargo Apro	Drainage - (	Dump Truc	Diesel	600	0.59	15.37778	0.001458	0.00436	1.60E-05	0.000179	0.000165	0.000906	2.920013	
3	2019	Cargo Apro	Drainage - (	Loader	Diesel	175	0.59	15.37778	0.000974	0.002272	5.08E-06	0.000223	0.000205	0.000341	0.851534	
3	2019	Cargo Apro	Drainage - (	Other Gene	Diesel	175	0.43	15.37778	0.000557	0.00204	3.76E-06	0.000137	0.000126	0.000271	0.613869	
3	2019	Cargo Apro	Drainage - (	Pickup Truc	Diesel	600	0.59	15.37778	0.001458	0.00436	1.60E-05	0.000179	0.000165	0.000906	2.920013	
3	2019	Cargo Apro	Drainage - (	Tractors/Lc	Diesel	100	0.21	15.37778	0.001518	0.001192	1.46E-06	0.000213	0.000196	0.000356	0.2241	
3	2019	Cargo Apro	Dust Contr	Water Truc	Diesel	600	0.59	1440	0.136575	0.408266	0.001498	0.016745	0.015405	0.08009	273.4347	
3	2019	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	131.812	0.006474	0.01508	4.21E-05	0.001405	0.001292	0.002405	7.299525	
3	2019	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	131.812	0.012502	0.037371	0.000137	0.001533	0.00141	0.007378	25.02915	
3	2019	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	131.812	0.012502	0.037371	0.000137	0.001533	0.00141	0.007378	25.02915	
3	2019	Cargo Apro	Excavation	Roller	Diesel	100	0.59	60.83631	0.005997	0.006044	1.28E-05	0.000755	0.000694	0.000765	2.137793	
3	2019	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	98.859	0.004855	0.01131	3.16E-05	0.001054	0.000969	0.001812	5.474644	
3	2019	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	263.624	0.025003	0.074742	0.000274	0.003065	0.00282	0.014704	50.05831	
3	2019	Cargo Apro	Excavation	Excavator	Diesel	175	0.59	79.0872	0.003026	0.007384	2.46E-05	0.000602	0.000554	0.00138	4.379902	
3	2019	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	79.0872	0.007501	0.022423	8.23E-05	0.00092	0.000846	0.004447	15.01749	
3	2019	Cargo Apro	Excavation	Roller	Diesel	100	0.59	79.0872	0.007796	0.007857	1.66E-05	0.000981	0.000903	0.000985	2.779131	
3	2019	Cargo Apro	Excavation	Scraper	Diesel	600	0.59	98.859	0.024115	0.059294	0.000113	0.003625	0.003335	0.006217	18.77026	
3	2019	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	37.21773	0.001828	0.004258	1.19E-05	0.000397	0.000365	0.000703	2.061055	
3	2019	Cargo Apro	Fencing	Concrete T	Diesel	600	0.59	9.5	0.000901	0.002693	9.88E-06	0.00011	0.000102	0.000579	1.80391	
3	2019	Cargo Apro	Fencing	Dump Truc	Diesel	600	0.59	38	0.003604	0.010774	3.95E-05	0.000442	0.000407	0.002163	7.215639	
3	2019	Cargo Apro	Fencing	Other Gene	Diesel	175	0.43	38	0.001377	0.005041	9.29E-06	0.000338	0.000311	0.000615	1.516929	
3	2019	Cargo Apro	Fencing	Pickup Truc	Diesel	600	0.59	38	0.003604	0.010774	3.95E-05	0.000442	0.000407	0.002163	7.215639	
3	2019	Cargo Apro	Fencing	Skid Steer L	Diesel	75	0.21	38	0.003037	0.003183	2.80E-06	0.000449	0.000413	0.000672	0.414912	
3	2019	Cargo Apro	Fencing	Tractors/Lc	Diesel	100	0.21	38	0.003751	0.002946	3.61E-06	0.000527	0.000484	0.00071	0.553774	
3	2019	Cargo Apro	Grading	Dozer	Diesel	175	0.59	24.9639	0.001226	0.002856	7.97E-06	0.000266	0.000245	0.000482	1.382459	
3	2019	Cargo Apro	Grading	Grader	Diesel	300	0.59	24.9639	0.001349	0.004285	1.33E-05	0.00022	0.000202	0.000768	2.370032	
3	2019	Cargo Apro	Grading	Roller	Diesel	100	0.59	24.9639	0.002461	0.00248	5.24E-06	0.00031	0.000285	0.000332	0.877234	
3	2019	Cargo Apro	Hydroseedi	Hydroseed	Diesel	600	0.59	22.49	0.002133	0.006376	2.34E-05	0.000262	0.000241	0.001301	4.270519	
3	2019	Cargo Apro	Hydroseedi	Off-Road T	Diesel	600	0.59	22.49	0.002133	0.006376	2.34E-05	0.000262	0.000241	0.001301	4.270519	
3	2019	Cargo Apro	Lighting	Dump Truc	Diesel	600	0.59	14.73333	0.001397	0.004177	1.53E-05	0.000171	0.000158	0.00087	2.797643	
3	2019	Cargo Apro	Lighting	Loader	Diesel	175	0.59	14.73333	0.000933	0.002177	4.87E-06	0.000214	0.000197	0.000328	0.815848	
3	2019	Cargo Apro	Lighting	Other Gene	Diesel	175	0.43	14.73333	0.000534	0.001954	3.60E-06	0.000131	0.000121	0.000261	0.588143	
3	2019	Cargo Apro	Lighting	Pickup Truc	Diesel	600	0.59	14.73333	0.001397	0.004177	1.53E-05	0.000171	0.000158	0.00087	2.797643	
3	2019	Cargo Apro	Lighting	Skid Steer L	Diesel	75	0.21	14.73333	0.001177	0.001234	1.09E-06	0.000174	0.00016	0.000306	0.160869	
3	2019	Cargo Apro	Lighting	Tractors/Lc	Diesel	100	0.21	14.73333	0.001454	0.001142	1.40E-06	0.000204	0.000188	0.000346	0.214709	
3	2019	Cargo Apro	Markings	Flatbed Tru	Diesel	600	0.59	488.5714	0.046338	0.138519	0.000508	0.005681	0.005227	0.027207	92.7725	
3	2019	Cargo Apro	Markings	Other Gene	Diesel	175	0.43	488.5714	0.017703	0.064807	0.00012	0.004346	0.003999	0.007462	19.50338	
3	2019	Cargo Apro	Markings	Pickup Truc	Diesel	600	0.59	488.5714	0.046338	0.138519	0.000508	0.005681	0.005227	0.027207	92.7725	
3	2019	Cargo Apro	Sealing/Fue	Distributing	Diesel	600	0.59	63.27013	0.006001	0.017938	6.58E-05	0.000736	0.000677	0.003568	12.01406	
3	2019	Cargo Apro	Sealing/Fue	Other Gene	Diesel	175	0.43	63.27013	0.002293	0.008392	1.55E-05	0.000563	0.000518	0.000999	2.525693	
3	2019	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	600	0.59	63.27013	0.006001	0.017938	6.58E-05	0.000736	0.000677	0.003568	12.01406	
3	2019	Cargo Apro	Soil Erosior	Other Gene	Diesel	175	0.43	20.8	0.000754	0.002759	5.09E-06	0.000185	0.00017	0.000353	0.830319	
3	2019	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	600	0.59	41.6	0.003946	0.011794	4.33E-05	0.000484	0.000445	0.002364	7.899226	
3	2019	Cargo Apro	Soil Erosior	Pumps	Diesel	11	0.43	20.8	0.000484	0.000504	4.30E-07	4.69E-05	4.32E-05	7.29E-05	0.057889	
3	2019	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	100	0.21	20.8	0.002053	0.001613	1.97E-06	0.000288	0.000265	0.000441	0.303119	
3	2019	Cargo Apro	Subbase Pl	Dozer	Diesel	175	0.59	49.95011	0.002453	0.005715	1.60E-05	0.000532	0.00049	0.000932	2.766152	
3	2019	Cargo Apro	Subbase Pl	Dump Truc	Diesel	600	0.59	351.5022	0.033338	0.099657	0.000366	0.004087	0.00376	0.019589	66.74508	
3	2019	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	600	0.59	49.95011	0.004737	0.014162	5.20E-05	0.000581	0.000534	0.002828	9.484788	
3	2019	Cargo Apro	Subbase Pl	Roller	Diesel	100	0.59	48.66954	0.004797	0.004835	1.02E-05	0.000604	0.000556	0.000618	1.710252	
3	2019	Cargo Apro	Topsoil Pla	Dozer	Diesel	175	0.59	55.476	0.002725	0.006347	1.77E-05	0.000591	0.000544	0.001031	3.072167	
3	2019	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	600	0.59	55.476	0.005262	0.015728	5.77E-05	0.000645	0.000593	0.003135	10.53407	
3	2019	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	600	0.59	55.476	0.005262	0.015728	5.77E-05	0.000645	0.000593	0.003135	10.53407	
3	2019	Drainage S	Drainage -	Dozer	Diesel	175	0.59	35.29412	0.001733	0.004038	1.13E-05	0.000376	0.000346	0.000668	1.954528	
3	2019	Drainage S	Drainage -	Dump Truc	Diesel	600	0.59	35.29412	0.003347	0.010007	3.67E-05	0.00041	0.000378	0.002013	6.701832	
3	2019	Drainage S	Drainage -	Excavator	Diesel	175	0.59	35.29412	0.00135	0.003295	1.10E-05	0.000269	0.000247	0.00063	1.954612	
3	2019	Drainage S	Drainage -	Loader	Diesel	175	0.59	35.29412	0.002235	0.005215	1.17E-05	0.000512	0.000471	0.000728	1.954388	
3	2019	Drainage S	Drainage -	Other Gene	Diesel	175	0.43	35.29412	0.001279	0.004682	8.63E-06	0.000314	0.000289	0.000574	1.408913	
3	2019	Drainage S	Drainage -	Pickup Truc	Diesel	600	0.59	35.29412	0.003347	0.010007	3.67E-05	0.00041	0.000378	0.002013	6.701832	
3	2019	Drainage S	Drainage -	Roller	Diesel	100	0.59	35.29412	0.003479	0.003507	7.40E-06	0.000438	0.000403	0.000457	1.240238	
3	2019	Drainage S	Drainage -	Dozer	Diesel	175	0.59	19.2	0.000943	0.002197	6.13E-06	0.000205	0.000188	0.000379	1.063263	
3	2019	Drainage S	Drainage -	Dump Truc	Diesel	600	0.59	19.2	0.001821	0.005444	2.00E-05	0.000223	0.000205	0.001119	3.645797	
3	2019	Drainage S	Drainage -	Excavator	Diesel	175	0.59	19.2	0.000735	0.001793	5.97E-06	0.000146	0.000134	0.000354	1.063309	
3	2019	Drainage S	Drainage -	Loader	Diesel	175	0.59	19.2	0.001216	0.002837	6.34E-06	0.000278	0.000256	0.000415	1.063187	
3	2019	Drainage S	Drainage -	Other Gene	Diesel	175	0.43	19.2	0.000696	0.002547	4.70E-06	0.000171	0.000157	0.000329	0.766449	
3	2019	Drainage S	Drainage -	Pickup Truc	Diesel	600	0.59	19.2	0.001821	0.005444	2.00E-05	0.000223	0.000205	0.001119	3.645797	
3	2019	Drainage S	Drainage -	Roller	Diesel	100	0.59	19.2	0.001893	0.001908	4.03E-06	0.000238	0.000219	0.000263	0.67469	
3	2019	Drainage S	Drainage St	Dump Truc	Diesel	600	0.59	4.8	0.000455	0.001361	4.99E-06	5.58E-05	5.14E-05	0.000318	0.911449	
3	2019	Drainage S	Drainage St	Excavator	Diesel	175	0.59	4.8	0.000184	0.000448	1.49E-06	3.65E-05	3.36E-05	0.000107	0.265827	
3	2019	Drainage S	Drainage St	Other Gene	Diesel	175	0.43	9.6	0.000348	0.001273	2.35E-06	8.54E-05	7.86E-05	0.000183	0.383224	
3	2019	Drainage S	Drainage St	Pickup Truc	Diesel	600	0.59	9.6	0.000911	0.002722	9.99E-06	0.000112	0.000103	0.000585	1.822898	
3	2019	Drainage S	Hydroseedi	Hydroseed	Diesel	600	0.59	1.22	0.000116	0.000346	1.27E-06	1.42E-05	1.31E-05	0.000119	0.23166	
3	2019	Drainage S	Hydroseedi	Off-Road T	Diesel	600	0.59	1.22	0.000116	0.000346	1.27E-06	1.42E-05	1.31E-05	0.000119	0.23166	
3	2019	Drainage S	Soil Erosior	Other Gene	Diesel	175	0.43	1.2	4.35E-05	0.000159	2.94E-07	1.07E-05	9.82E-06	5.55E-05	0.047903	
3	2019	Drainage S	Soil Erosior	Pickup Truc	Diesel	600	0.59	2.4	0.000228	0.00068	2.50E-06	2.79E-05	2.57E-05	0.000185	0.455725	
3	2019	Drainage S	Soil Erosior	Pumps	Diesel	11	0.43	1.2	2.79E-05	2.91E-05	2.48E-08	2.71E-06	2.49E-06	6.34E-06	0.00334	
3	2019	Drainage S	Soil Erosior	Tractors/Lc	Diesel	100	0.21	1.2	0.000118	9.30E-05	1.14E-07	1.66E-05	1.53E-05	0.000135	0.017488	
3	2019	Drainage S	Topsoil Pla	Dozer	Diesel	175	0.59	3.009333	0.000148	0.000344	9.61E-07	3.21E-05	2.95E-05	8.74E-05	0.166652	
3	2019	Drainage S	Topsoil Pla	Dump Truc	Diesel	600	0.59	3.009333	0.000285	0.000853	3.13E-06	3.50E-05	3.22E-05	0.000219	0.571428	
3	2019	Drainage S	Topsoil Pla	Pickup Truc	Diesel	600	0.59	3.009333	0.000285	0.000853	3.13E-06	3.50E-05	3.22E-05	0.000219	0.571428	
3	2019	Fuel Tanks	Clearing an	Chain Saw	Diesel	11	0.7	13.2	0.032888	0.000148	1.57E-05	0.001092	0.001005	0.010675	0.069725	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	2019	Fuel Tanks	Clearing an	Chipper/St	Diesel	100	0.43	13.2	0.001135	0.002027	2.20E-06	0.000199	0.000183	0.000299	0.334453	
3	2019	Fuel Tanks	Clearing an	Pickup Truc	Diesel	600	0.59	17.6	0.001669	0.00499	1.83E-05	0.000205	0.000188	0.00103	3.34198	
3	2019	Fuel Tanks	Concrete P	Air Compre	Diesel	100	0.43	15.3552	0.000903	0.001485	2.41E-06	0.000132	0.000122	0.000195	0.389357	
3	2019	Fuel Tanks	Concrete P	Concrete S	Diesel	40	0.59	15.3552	0.00024	0.001357	1.25E-06	3.43E-05	3.15E-05	7.08E-05	0.215844	
3	2019	Fuel Tanks	Concrete P	Concrete T	Diesel	600	0.59	63.98	0.006068	0.018139	6.66E-05	0.000744	0.000684	0.003607	12.14886	
3	2019	Fuel Tanks	Concrete P	Other Gene	Diesel	175	0.43	30.7104	0.001113	0.004074	7.51E-06	0.000273	0.000251	0.000504	1.225934	
3	2019	Fuel Tanks	Concrete P	Pickup Truc	Diesel	600	0.59	46.0656	0.004369	0.01306	4.79E-05	0.000536	0.000493	0.002612	8.747177	
3	2019	Fuel Tanks	Concrete P	Rubber Tire	Diesel	175	0.59	15.3552	0.000973	0.002269	5.07E-06	0.000223	0.000205	0.00034	0.850284	
3	2019	Fuel Tanks	Concrete P	Slip Form P	Diesel	175	0.59	15.3552	0.000889	0.002056	5.01E-06	0.0002	0.000184	0.000327	0.850309	
3	2019	Fuel Tanks	Concrete P	Surfacing E	Diesel	25	0.59	15.3552	0.000596	0.001113	1.00E-06	8.81E-05	8.11E-05	0.000119	0.134699	
3	2019	Fuel Tanks	Constructic	Crane	Diesel	300	0.43	15	0.000595	0.002694	6.03E-06	0.000118	0.000108	0.000402	1.026615	
3	2019	Fuel Tanks	Constructic	Other Gene	Diesel	175	0.43	40	0.001449	0.005306	9.78E-06	0.000356	0.000327	0.000645	1.596768	
3	2019	Fuel Tanks	Constructic	Pickup Truc	Diesel	600	0.59	40	0.003794	0.011341	4.16E-05	0.000465	0.000428	0.002275	7.59541	
3	2019	Fuel Tanks	Drainage -	Excavator	Diesel	175	0.59	13.6	0.00052	0.00127	4.23E-06	0.000103	9.52E-05	0.000258	0.753177	
3	2019	Fuel Tanks	Drainage	Dozer	Diesel	175	0.59	13.6	0.000668	0.001556	4.34E-06	0.000145	0.000133	0.000278	0.753145	
3	2019	Fuel Tanks	Drainage	Dump Truc	Diesel	600	0.59	13.6	0.00129	0.003856	1.41E-05	0.000158	0.000145	0.000807	2.582439	
3	2019	Fuel Tanks	Drainage	Loader	Diesel	175	0.59	13.6	0.000861	0.002009	4.49E-06	0.000197	0.000181	0.000306	0.753091	
3	2019	Fuel Tanks	Drainage	Other Gene	Diesel	175	0.43	13.6	0.000493	0.001804	3.33E-06	0.000121	0.000111	0.000244	0.542901	
3	2019	Fuel Tanks	Drainage	Pickup Truc	Diesel	600	0.59	13.6	0.00129	0.003856	1.41E-05	0.000158	0.000145	0.000807	2.582439	
3	2019	Fuel Tanks	Drainage	Roller	Diesel	100	0.59	13.6	0.001341	0.001351	2.85E-06	0.000169	0.000155	0.000195	0.477905	
3	2019	Fuel Tanks	Dust Contr	Water Truc	Diesel	600	0.59	1440	0.136575	0.408266	0.001498	0.016745	0.015405	0.08009	273.4347	
3	2019	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	81.89333	0.004022	0.009369	2.62E-05	0.000873	0.000803	0.001506	4.535114	
3	2019	Fuel Tanks	Excavation	Dump Truc	Diesel	600	0.59	81.89333	0.007767	0.023218	8.52E-05	0.000952	0.000876	0.004603	15.55034	
3	2019	Fuel Tanks	Excavation	Pickup Truc	Diesel	600	0.59	81.89333	0.007767	0.023218	8.52E-05	0.000952	0.000876	0.004603	15.55034	
3	2019	Fuel Tanks	Excavation	Roller	Diesel	100	0.59	37.79692	0.003726	0.003755	7.93E-06	0.000469	0.000431	0.000487	1.328187	
3	2019	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	61.42	0.003017	0.007027	1.96E-05	0.000655	0.000602	0.001138	3.401336	
3	2019	Fuel Tanks	Excavation	Dump Truc	Diesel	600	0.59	163.7867	0.015534	0.046436	0.00017	0.001905	0.001752	0.009155	31.10067	
3	2019	Fuel Tanks	Excavation	Excavator	Diesel	175	0.59	49.136	0.00188	0.004588	1.53E-05	0.000374	0.000344	0.000867	2.721184	
3	2019	Fuel Tanks	Excavation	Pickup Truc	Diesel	600	0.59	49.136	0.00466	0.013931	5.11E-05	0.000571	0.000526	0.002782	9.330201	
3	2019	Fuel Tanks	Excavation	Roller	Diesel	100	0.59	49.136	0.004843	0.004882	1.03E-05	0.00061	0.000561	0.000624	1.726643	
3	2019	Fuel Tanks	Excavation	Scraper	Diesel	600	0.59	61.42	0.014983	0.036839	7.05E-05	0.002252	0.002072	0.003915	11.66175	
3	2019	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	7.225882	0.000355	0.000827	2.31E-06	7.70E-05	7.09E-05	0.000163	0.400157	
3	2019	Fuel Tanks	Fencing	Concrete T	Diesel	600	0.59	4.611111	0.000437	0.001307	4.80E-06	5.36E-05	4.93E-05	0.000308	0.875582	
3	2019	Fuel Tanks	Fencing	Dump Truc	Diesel	600	0.59	18.44444	0.001749	0.005229	1.92E-05	0.000214	0.000197	0.001077	3.502328	
3	2019	Fuel Tanks	Fencing	Other Gene	Diesel	175	0.43	18.44444	0.000668	0.002447	4.51E-06	0.000164	0.000151	0.000318	0.736287	
3	2019	Fuel Tanks	Fencing	Pickup Truc	Diesel	600	0.59	18.44444	0.001749	0.005229	1.92E-05	0.000214	0.000197	0.001077	3.502328	
3	2019	Fuel Tanks	Fencing	Skid Steer L	Diesel	75	0.21	18.44444	0.001474	0.001545	1.36E-06	0.000218	0.0002	0.000364	0.20139	
3	2019	Fuel Tanks	Fencing	Tractors/Lc	Diesel	100	0.21	18.44444	0.00182	0.00143	1.75E-06	0.000256	0.000235	0.000404	0.268791	
3	2019	Fuel Tanks	Grading	Dozer	Diesel	175	0.59	5.1893	0.000255	0.000594	1.66E-06	5.53E-05	5.09E-05	0.000127	0.287375	
3	2019	Fuel Tanks	Grading	Grader	Diesel	300	0.59	5.1893	0.00028	0.000891	2.76E-06	4.57E-05	4.20E-05	0.000188	0.492664	
3	2019	Fuel Tanks	Grading	Roller	Diesel	100	0.59	5.1893	0.000512	0.000516	1.09E-06	6.44E-05	5.92E-05	9.35E-05	0.182352	
3	2019	Fuel Tanks	Hydroseedi	Hydroseed	Diesel	600	0.59	4.675	0.000443	0.001325	4.86E-06	5.44E-05	5.00E-05	0.000311	0.887713	
3	2019	Fuel Tanks	Hydroseedi	Off-Road T	Diesel	600	0.59	4.675	0.000443	0.001325	4.86E-06	5.44E-05	5.00E-05	0.000311	0.887713	
3	2019	Fuel Tanks	Markings	Flatbed Tru	Diesel	600	0.59	94.85714	0.008997	0.026894	9.87E-05	0.001103	0.001015	0.005324	18.01197	
3	2019	Fuel Tanks	Markings	Other Gene	Diesel	175	0.43	94.85714	0.003437	0.012582	2.32E-05	0.000844	0.000776	0.001479	3.786621	
3	2019	Fuel Tanks	Markings	Pickup Truc	Diesel	600	0.59	94.85714	0.008997	0.026894	9.87E-05	0.001103	0.001015	0.005324	18.01197	
3	2019	Fuel Tanks	Soil Erosior	Other Gene	Diesel	175	0.43	4.4	0.000159	0.000584	1.08E-06	3.91E-05	3.60E-05	0.000104	0.175644	
3	2019	Fuel Tanks	Soil Erosior	Pickup Truc	Diesel	600	0.59	8.8	0.000835	0.002495	9.16E-06	0.000102	9.41E-05	0.00054	1.67099	
3	2019	Fuel Tanks	Soil Erosior	Pumps	Diesel	11	0.43	4.4	0.000102	0.000107	9.10E-08	9.92E-06	9.13E-06	1.72E-05	0.012246	

ACEIT Output - Modified Asphalt Application Rates

3	2019	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.4	0.000434	0.000341	4.17E-07	6.10E-05	5.61E-05	0.000185	0.064121	
3	2019	Fuel Tanks	Street Light	Dump Truc	Diesel	600	0.59	2.666667	0.000253	0.000756	2.77E-06	3.10E-05	2.85E-05	0.0002	0.506361	
3	2019	Fuel Tanks	Street Light	Loader	Diesel	175	0.59	2.666667	0.000169	0.000394	8.81E-07	3.87E-05	3.56E-05	9.34E-05	0.147665	
3	2019	Fuel Tanks	Street Light	Other Gene	Diesel	175	0.43	2.666667	9.66E-05	0.000354	6.52E-07	2.37E-05	2.18E-05	7.78E-05	0.106451	
3	2019	Fuel Tanks	Street Light	Pickup Truc	Diesel	600	0.59	2.666667	0.000253	0.000756	2.77E-06	3.10E-05	2.85E-05	0.0002	0.506361	
3	2019	Fuel Tanks	Street Light	Skid Steer L	Diesel	75	0.21	2.666667	0.000213	0.000223	1.97E-07	3.15E-05	2.90E-05	0.000116	0.029117	
3	2019	Fuel Tanks	Street Light	Tractors/Lc	Diesel	100	0.21	2.666667	0.000263	0.000207	2.53E-07	3.69E-05	3.40E-05	0.000158	0.038861	
3	2019	Fuel Tanks	Subbase Pl	Dozer	Diesel	175	0.59	9.697895	0.000476	0.001109	3.10E-06	0.000103	9.51E-05	0.000208	0.537053	
3	2019	Fuel Tanks	Subbase Pl	Dump Truc	Diesel	600	0.59	68.24444	0.006473	0.019349	7.10E-05	0.000794	0.00073	0.003845	12.95861	
3	2019	Fuel Tanks	Subbase Pl	Pickup Truc	Diesel	600	0.59	9.697895	0.00092	0.00275	1.01E-05	0.000113	0.000104	0.00059	1.841487	
3	2019	Fuel Tanks	Subbase Pl	Roller	Diesel	100	0.59	9.449231	0.000931	0.000939	1.98E-06	0.000117	0.000108	0.000145	0.332047	
3	2019	Fuel Tanks	Topsoil Pla	Dozer	Diesel	175	0.59	23.064	0.001133	0.002639	7.37E-06	0.000246	0.000226	0.000448	1.277245	
3	2019	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel	600	0.59	23.064	0.002187	0.006539	2.40E-05	0.000268	0.000247	0.001333	4.379513	
3	2019	Fuel Tanks	Topsoil Pla	Pickup Truc	Diesel	600	0.59	23.064	0.002187	0.006539	2.40E-05	0.000268	0.000247	0.001333	4.379513	
3	2019	Parking Lot	Asphalt Pla	Asphalt Pav	Diesel	175	0.59	50.47038	0.002924	0.006757	1.65E-05	0.000659	0.000606	0.000989	2.794847	
3	2019	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	181.7729	0.01724	0.051536	0.000189	0.002114	0.001945	0.010155	34.51599	
3	2019	Parking Lot	Asphalt Pla	Other Gene	Diesel	175	0.43	100.9408	0.003658	0.013389	2.47E-05	0.000898	0.000826	0.001571	4.029474	
3	2019	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	50.47038	0.004787	0.014309	5.25E-05	0.000587	0.00054	0.002857	9.583579	
3	2019	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	50.47038	0.004975	0.005014	1.06E-05	0.000626	0.000576	0.00064	1.773533	
3	2019	Parking Lot	Asphalt Pla	Skid Steer L	Diesel	75	0.21	50.47038	0.004034	0.004228	3.72E-06	0.000596	0.000548	0.000868	0.551073	
3	2019	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	64.60208	0.002507	0.004683	4.21E-06	0.000371	0.000341	0.000497	0.566702	
3	2019	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	108	0.26908	0.001213	0.000129	0.008936	0.008221	0.060473	0.570475	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	2019	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	108	0.009284	0.016584	1.80E-05	0.001628	0.001498	0.001972	2.736434	
3	2019	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	144	0.013658	0.040827	0.00015	0.001674	0.001541	0.008055	27.34347	
3	2019	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	48.5	0.0046	0.013751	5.05E-05	0.000564	0.000519	0.002747	9.209434	
3	2019	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	48.5	0.002809	0.006493	1.58E-05	0.000633	0.000582	0.000952	2.685735	
3	2019	Parking Lot	Curbing	Other Gene	Diesel	175	0.43	48.5	0.001757	0.006433	1.19E-05	0.000431	0.000397	0.000774	1.936081	
3	2019	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	48.5	0.0046	0.013751	5.05E-05	0.000564	0.000519	0.002747	9.209434	
3	2019	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	77.92	0.003827	0.008914	2.49E-05	0.00083	0.000764	0.001435	4.315078	
3	2019	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	77.92	0.00739	0.022092	8.11E-05	0.000906	0.000834	0.004382	14.79586	
3	2019	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	77.92	0.002981	0.007275	2.42E-05	0.000593	0.000545	0.00136	4.315261	
3	2019	Parking Lot	Drainage -	Loader	Diesel	175	0.59	77.92	0.004935	0.011513	2.57E-05	0.00113	0.00104	0.001557	4.314767	
3	2019	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	77.92	0.002823	0.010336	1.91E-05	0.000693	0.000638	0.001221	3.110504	
3	2019	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	77.92	0.00739	0.022092	8.11E-05	0.000906	0.000834	0.004382	14.79586	
3	2019	Parking Lot	Drainage -	Roller	Diesel	100	0.59	77.92	0.007681	0.007741	1.63E-05	0.000967	0.000889	0.000971	2.738116	
3	2019	Parking Lot	Drainage - (	Dump Truc	Diesel	600	0.59	129.8667	0.012317	0.03682	0.000135	0.00151	0.001389	0.00727	24.65976	
3	2019	Parking Lot	Drainage - (	Loader	Diesel	175	0.59	129.8667	0.008226	0.019189	4.29E-05	0.001884	0.001733	0.002567	7.191278	
3	2019	Parking Lot	Drainage - (	Other Gene	Diesel	175	0.43	129.8667	0.004706	0.017226	3.18E-05	0.001155	0.001063	0.002011	5.184173	
3	2019	Parking Lot	Drainage - (	Pickup Truc	Diesel	600	0.59	129.8667	0.012317	0.03682	0.000135	0.00151	0.001389	0.00727	24.65976	
3	2019	Parking Lot	Drainage - (	Tractors/Lc	Diesel	100	0.21	129.8667	0.012818	0.010069	1.23E-05	0.001799	0.001655	0.002146	1.892548	
3	2019	Parking Lot	Excavation	Dozer	Diesel	175	0.59	224.312	0.011017	0.025662	7.16E-05	0.002391	0.0022	0.004069	12.42202	
3	2019	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	224.312	0.021275	0.063596	0.000233	0.002608	0.0024	0.012519	42.59354	
3	2019	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	224.312	0.021275	0.063596	0.000233	0.002608	0.0024	0.012519	42.59354	
3	2019	Parking Lot	Excavation	Roller	Diesel	100	0.59	103.5286	0.010205	0.010286	2.17E-05	0.001285	0.001182	0.00128	3.638005	
3	2019	Parking Lot	Excavation	Dozer	Diesel	175	0.59	168.234	0.008263	0.019247	5.37E-05	0.001793	0.00165	0.00306	9.316514	
3	2019	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	448.624	0.042549	0.127193	0.000467	0.005217	0.004799	0.024987	85.18708	
3	2019	Parking Lot	Excavation	Excavator	Diesel	175	0.59	134.5872	0.005149	0.012567	4.19E-05	0.001024	0.000942	0.002331	7.453528	
3	2019	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	134.5872	0.012765	0.038158	0.00014	0.001565	0.00144	0.007532	25.55612	
3	2019	Parking Lot	Excavation	Roller	Diesel	100	0.59	134.5872	0.013267	0.013371	2.82E-05	0.00167	0.001536	0.001655	4.729406	
3	2019	Parking Lot	Excavation	Scraper	Diesel	600	0.59	168.234	0.041039	0.100904	0.000193	0.006169	0.005675	0.010483	31.94242	
3	2019	Parking Lot	Excavation	Dozer	Diesel	175	0.59	63.33537	0.003111	0.007246	2.02E-05	0.000675	0.000621	0.001173	3.507406	
3	2019	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	26.94444	0.002556	0.007639	2.80E-05	0.000313	0.000288	0.001549	5.116352	
3	2019	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	107.7778	0.010222	0.030557	0.000112	0.001253	0.001153	0.006042	20.46541	
3	2019	Parking Lot	Fencing	Other Gene	Diesel	175	0.43	107.7778	0.003905	0.014296	2.64E-05	0.000959	0.000882	0.001675	4.302402	
3	2019	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	107.7778	0.010222	0.030557	0.000112	0.001253	0.001153	0.006042	20.46541	
3	2019	Parking Lot	Fencing	Skid Steer L	Diesel	75	0.21	107.7778	0.008614	0.009029	7.95E-06	0.001273	0.001171	0.00177	1.176797	
3	2019	Parking Lot	Fencing	Tractors/Lc	Diesel	100	0.21	107.7778	0.010638	0.008357	1.02E-05	0.001493	0.001374	0.001801	1.570646	
3	2019	Parking Lot	Grading	Dozer	Diesel	175	0.59	43.2456	0.002124	0.004948	1.38E-05	0.000461	0.000424	0.000811	2.394868	
3	2019	Parking Lot	Grading	Grader	Diesel	300	0.59	43.2456	0.002337	0.007423	2.30E-05	0.000381	0.00035	0.001304	4.105667	
3	2019	Parking Lot	Grading	Roller	Diesel	100	0.59	43.2456	0.004263	0.004297	9.07E-06	0.000537	0.000494	0.000553	1.519654	
3	2019	Parking Lot	Hydroseedi	Hydroseed	Diesel	600	0.59	38.96	0.003695	0.011046	4.05E-05	0.000453	0.000417	0.002217	7.397929	
3	2019	Parking Lot	Hydroseedi	Off-Road T	Diesel	600	0.59	38.96	0.003695	0.011046	4.05E-05	0.000453	0.000417	0.002217	7.397929	
3	2019	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	11.77143	0.001116	0.003337	1.22E-05	0.000137	0.000126	0.000706	2.235221	
3	2019	Parking Lot	Markings	Other Gene	Diesel	175	0.43	11.77143	0.000427	0.001561	2.88E-06	0.000105	9.63E-05	0.000216	0.469906	
3	2019	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	11.77143	0.001116	0.003337	1.22E-05	0.000137	0.000126	0.000706	2.235221	
3	2019	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	97	0.0092	0.027501	0.000101	0.001128	0.001038	0.005443	18.41887	
3	2019	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	97	0.0092	0.027501	0.000101	0.001128	0.001038	0.005443	18.41887	
3	2019	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	97	0.0092	0.027501	0.000101	0.001128	0.001038	0.005443	18.41887	
3	2019	Parking Lot	Sidewalks	Tractors/Lc	Diesel	100	0.21	97	0.009574	0.007521	9.20E-06	0.001344	0.001237	0.001632	1.413582	
3	2019	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	97	0.001229	0.001234	1.09E-06	0.00011	0.000101	0.000172	0.147277	
3	2019	Parking Lot	Soil Erosior	Other Gene	Diesel	175	0.43	36	0.001304	0.004775	8.81E-06	0.00032	0.000295	0.000584	1.437091	
3	2019	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	72	0.006829	0.020413	7.49E-05	0.000837	0.00077	0.004053	13.67174	
3	2019	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	36	0.000838	0.000873	7.45E-07	8.12E-05	7.47E-05	0.000124	0.100192	
3	2019	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	100	0.21	36	0.003553	0.002791	3.42E-06	0.000499	0.000459	0.000679	0.524628	
3	2019	Parking Lot	Street Light	Dump Truc	Diesel	600	0.59	24.26667	0.002302	0.00688	2.52E-05	0.000282	0.00026	0.0014	4.607882	
3	2019	Parking Lot	Street Light	Loader	Diesel	175	0.59	24.26667	0.001537	0.003586	8.02E-06	0.000352	0.000324	0.000513	1.34375	
3	2019	Parking Lot	Street Light	Other Gene	Diesel	175	0.43	24.26667	0.000879	0.003219	5.94E-06	0.000216	0.000199	0.000406	0.968706	
3	2019	Parking Lot	Street Light	Pickup Truc	Diesel	600	0.59	24.26667	0.002302	0.00688	2.52E-05	0.000282	0.00026	0.0014	4.607882	
3	2019	Parking Lot	Street Light	Skid Steer L	Diesel	75	0.21	24.26667	0.001939	0.002033	1.79E-06	0.000287	0.000264	0.000456	0.264961	
3	2019	Parking Lot	Street Light	Tractors/Lc	Diesel	100	0.21	24.26667	0.002395	0.001882	2.30E-06	0.000336	0.000309	0.000495	0.353638	
3	2019	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	85.00274	0.004175	0.009725	2.71E-05	0.000906	0.000834	0.001562	4.707308	
3	2019	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	598.1689	0.056733	0.169591	0.000622	0.006956	0.006399	0.033299	113.5834	
3	2019	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	85.00274	0.008062	0.0241	8.84E-05	0.000988	0.000909	0.004776	16.14076	
3	2019	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	82.82338	0.008164	0.008229	1.74E-05	0.001028	0.000945	0.00103	2.910421	
3	2019	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	96.10133	0.00472	0.010994	3.07E-05	0.001024	0.000942	0.001762	5.321929	
3	2019	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	96.10133	0.009115	0.027246	1.00E-04	0.001117	0.001028	0.005393	18.24822	
3	2019	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	96.10133	0.009115	0.027246	1.00E-04	0.001117	0.001028	0.005393	18.24822	
3	2019	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	4	0.000379	0.001134	4.16E-06	4.65E-05	4.28E-05	0.000274	0.759541	
3	2019	Parking Lot	Tree Planti	Other Gene	Diesel	175	0.43	4	0.000145	0.000531	9.78E-07	3.56E-05	3.27E-05	9.80E-05	0.159677	
3	2019	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	4	0.000379	0.001134	4.16E-06	4.65E-05	4.28E-05	0.000274	0.759541	
3	2019	Parking Lot	Tree Planti	Tractors/Lc	Diesel	100	0.21	4	0.000395	0.00031	3.80E-07	5.54E-05	5.10E-05	0.000179	0.058292	
3	2019	Taxiways	Asphalt Pla	Asphalt Pav	Diesel	175	0.59	16.71938	0.000968	0.002238	5.45E-06	0.000218	0.000201	0.000353	0.925852	
3	2019	Taxiways	Asphalt Pla	Dump Truc	Diesel	600	0.59	60.21609	0.005711	0.017072	6.26E-05	0.0007	0.000644	0.003398	11.43415	
3	2019	Taxiways	Asphalt Pla	Other Gene	Diesel	175	0.43	33.43875	0.001212	0.004435	8.18E-06	0.000297	0.000274	0.000545	1.334848	
3	2019	Taxiways	Asphalt Pla	Pickup Truc	Diesel	600	0.59	16.71938	0.001586	0.00474	1.74E-05	0.000194	0.000179	0.000981	3.174763	
3	2019	Taxiways	Asphalt Pla	Roller	Diesel	100	0.59	16.71938	0.001648	0.001661	3.51E-06	0.000207	0.000191	0.000233	0.58752	
3	2019	Taxiways	Asphalt Pla	Skid Steer L	Diesel	75	0.21	16.71938	0.001336	0.001401	1.23E-06	0.000197	0.000182	0.000337	0.182554	
3	2019	Taxiways	Asphalt Pla	Surfacing E	Diesel	25	0.59	21.4008	0.000831	0.001551	1.40E-06	0.000123	0.000113	0.000165	0.187732	
3	2019	Taxiways	Clearing an	Chain Saw	Diesel	11	0.7	37.2	0.092683	0.000418	4.43E-05	0.003078	0.002832	0.023282	0.196497	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	2019	Taxiways	Clearing an	Chipper/St	Diesel	100	0.43	37.2	0.003198	0.005712	6.19E-06	0.000561	0.000516	0.000723	0.94255	
3	2019	Taxiways	Clearing an	Pickup Truc	Diesel	600	0.59	49.6	0.004704	0.014062	5.16E-05	0.000577	0.000531	0.002808	9.418308	
3	2019	Taxiways	Drainage -	Dozer	Diesel	175	0.59	38.88	0.00191	0.004448	1.24E-05	0.000414	0.000381	0.000733	2.153109	
3	2019	Taxiways	Drainage -	Dump Truc	Diesel	600	0.59	38.88	0.003688	0.011023	4.04E-05	0.000452	0.000416	0.002212	7.382738	
3	2019	Taxiways	Drainage -	Excavator	Diesel	175	0.59	38.88	0.001487	0.00363	1.21E-05	0.000296	0.000272	0.000691	2.1532	
3	2019	Taxiways	Drainage -	Loader	Diesel	175	0.59	38.88	0.002463	0.005745	1.28E-05	0.000564	0.000519	0.000798	2.152953	
3	2019	Taxiways	Drainage -	Other Gene	Diesel	175	0.43	38.88	0.001409	0.005157	9.51E-06	0.000346	0.000318	0.000628	1.552058	
3	2019	Taxiways	Drainage -	Pickup Truc	Diesel	600	0.59	38.88	0.003688	0.011023	4.04E-05	0.000452	0.000416	0.002212	7.382738	
3	2019	Taxiways	Drainage -	Roller	Diesel	100	0.59	38.88	0.003832	0.003863	8.15E-06	0.000482	0.000444	0.0005	1.366247	
3	2019	Taxiways	Drainage - (	Dump Truc	Diesel	600	0.59	21.6	0.002049	0.006124	2.25E-05	0.000251	0.000231	0.001252	4.101521	
3	2019	Taxiways	Drainage - (	Loader	Diesel	175	0.59	21.6	0.001368	0.003192	7.14E-06	0.000313	0.000288	0.000462	1.196085	
3	2019	Taxiways	Drainage - (	Other Gene	Diesel	175	0.43	21.6	0.000783	0.002865	5.28E-06	0.000192	0.000177	0.000365	0.862255	
3	2019	Taxiways	Drainage - (	Pickup Truc	Diesel	600	0.59	21.6	0.002049	0.006124	2.25E-05	0.000251	0.000231	0.001252	4.101521	
3	2019	Taxiways	Drainage - (	Tractors/Lc	Diesel	100	0.21	21.6	0.002132	0.001675	2.05E-06	0.000299	0.000275	0.000454	0.314777	
3	2019	Taxiways	Dust Contr	Water Truc	Diesel	600	0.59	1440	0.136575	0.408266	0.001498	0.016745	0.015405	0.08009	273.4347	
3	2019	Taxiways	Excavation	Dozer	Diesel	175	0.59	74.308	0.00365	0.008501	2.37E-05	0.000792	0.000729	0.00137	4.115051	
3	2019	Taxiways	Excavation	Dump Truc	Diesel	600	0.59	74.308	0.007048	0.021068	7.73E-05	0.000864	0.000795	0.004182	14.10999	
3	2019	Taxiways	Excavation	Pickup Truc	Diesel	600	0.59	74.308	0.007048	0.021068	7.73E-05	0.000864	0.000795	0.004182	14.10999	
3	2019	Taxiways	Excavation	Roller	Diesel	100	0.59	34.296	0.003381	0.003407	7.19E-06	0.000426	0.000391	0.000445	1.205164	
3	2019	Taxiways	Excavation	Dozer	Diesel	175	0.59	55.731	0.002737	0.006376	1.78E-05	0.000594	0.000546	0.001036	3.086288	
3	2019	Taxiways	Excavation	Dump Truc	Diesel	600	0.59	148.616	0.014095	0.042135	0.000155	0.001728	0.00159	0.008312	28.21998	
3	2019	Taxiways	Excavation	Excavator	Diesel	175	0.59	44.5848	0.001706	0.004163	1.39E-05	0.000339	0.000312	0.000789	2.469136	
3	2019	Taxiways	Excavation	Pickup Truc	Diesel	600	0.59	44.5848	0.004229	0.012641	4.64E-05	0.000518	0.000477	0.002529	8.465995	
3	2019	Taxiways	Excavation	Roller	Diesel	100	0.59	44.5848	0.004395	0.00443	9.35E-06	0.000553	0.000509	0.000569	1.566714	
3	2019	Taxiways	Excavation	Scraper	Diesel	600	0.59	55.731	0.013595	0.033427	6.39E-05	0.002044	0.00188	0.003565	10.58159	
3	2019	Taxiways	Excavation	Dozer	Diesel	175	0.59	20.98118	0.00103	0.0024	6.70E-06	0.000224	0.000206	0.000411	1.161902	
3	2019	Taxiways	Fencing	Concrete T	Diesel	600	0.59	13.38889	0.00127	0.003796	1.39E-05	0.000156	0.000143	0.000796	2.542352	
3	2019	Taxiways	Fencing	Dump Truc	Diesel	600	0.59	53.55556	0.005079	0.015184	5.57E-05	0.000623	0.000573	0.003028	10.16941	
3	2019	Taxiways	Fencing	Other Gene	Diesel	175	0.43	53.55556	0.001941	0.007104	1.31E-05	0.000476	0.000438	0.000851	2.137895	
3	2019	Taxiways	Fencing	Pickup Truc	Diesel	600	0.59	53.55556	0.005079	0.015184	5.57E-05	0.000623	0.000573	0.003028	10.16941	
3	2019	Taxiways	Fencing	Skid Steer L	Diesel	75	0.21	53.55556	0.00428	0.004487	3.95E-06	0.000632	0.000582	0.000917	0.584759	
3	2019	Taxiways	Fencing	Tractors/Lc	Diesel	100	0.21	53.55556	0.005286	0.004153	5.08E-06	0.000742	0.000683	0.000953	0.780466	
3	2019	Taxiways	Grading	Dozer	Diesel	175	0.59	14.8352	0.000729	0.001697	4.74E-06	0.000158	0.000145	0.0003	0.821548	
3	2019	Taxiways	Grading	Grader	Diesel	300	0.59	14.8352	0.000802	0.002546	7.89E-06	0.000131	0.00012	0.000471	1.40843	
3	2019	Taxiways	Grading	Roller	Diesel	100	0.59	14.8352	0.001462	0.001474	3.11E-06	0.000184	0.000169	0.00021	0.52131	
3	2019	Taxiways	Hydroseedi	Hydroseed	Diesel	600	0.59	13.365	0.001268	0.003789	1.39E-05	0.000155	0.000143	0.000794	2.537816	
3	2019	Taxiways	Hydroseedi	Off-Road T	Diesel	600	0.59	13.365	0.001268	0.003789	1.39E-05	0.000155	0.000143	0.000794	2.537816	
3	2019	Taxiways	Lighting	Dump Truc	Diesel	600	0.59	17.4	0.00165	0.004933	1.81E-05	0.000202	0.000186	0.001018	3.304003	
3	2019	Taxiways	Lighting	Loader	Diesel	175	0.59	17.4	0.001102	0.002571	5.75E-06	0.000252	0.000232	0.00038	0.963513	
3	2019	Taxiways	Lighting	Other Gene	Diesel	175	0.43	17.4	0.00063	0.002308	4.26E-06	0.000155	0.000142	0.000302	0.694594	
3	2019	Taxiways	Lighting	Pickup Truc	Diesel	600	0.59	17.4	0.00165	0.004933	1.81E-05	0.000202	0.000186	0.001018	3.304003	
3	2019	Taxiways	Lighting	Skid Steer L	Diesel	75	0.21	17.4	0.001391	0.001458	1.28E-06	0.000205	0.000189	0.000348	0.189986	
3	2019	Taxiways	Lighting	Tractors/Lc	Diesel	100	0.21	17.4	0.001717	0.001349	1.65E-06	0.000241	0.000222	0.000388	0.25357	
3	2019	Taxiways	Markings	Flatbed Tru	Diesel	600	0.59	275.4286	0.026123	0.078089	0.000287	0.003203	0.002947	0.01536	52.29982	
3	2019	Taxiways	Markings	Other Gene	Diesel	175	0.43	275.4286	0.00998	0.036534	6.74E-05	0.00245	0.002254	0.004223	10.99489	
3	2019	Taxiways	Markings	Pickup Truc	Diesel	600	0.59	275.4286	0.026123	0.078089	0.000287	0.003203	0.002947	0.01536	52.29982	
3	2019	Taxiways	Soil Erosior	Other Gene	Diesel	175	0.43	12.4	0.000449	0.001645	3.03E-06	0.00011	0.000101	0.000226	0.494998	
3	2019	Taxiways	Soil Erosior	Pickup Truc	Diesel	600	0.59	24.8	0.002352	0.007031	2.58E-05	0.000288	0.000265	0.00143	4.709154	
3	2019	Taxiways	Soil Erosior	Pumps	Diesel	11	0.43	12.4	0.000288	0.000301	2.56E-07	2.80E-05	2.57E-05	4.44E-05	0.034511	
3	2019	Taxiways	Soil Erosior	Tractors/Lc	Diesel	100	0.21	12.4	0.001224	0.000961	1.18E-06	0.000172	0.000158	0.00031	0.180705	
3	2019	Taxiways	Subbase Pl	Dozer	Diesel	175	0.59	28.15895	0.001383	0.003222	8.99E-06	0.0003	0.000276	0.00054	1.559395	
3	2019	Taxiways	Subbase Pl	Dump Truc	Diesel	600	0.59	198.1556	0.018794	0.056181	0.000206	0.002304	0.00212	0.011065	37.62681	
3	2019	Taxiways	Subbase Pl	Pickup Truc	Diesel	600	0.59	28.15895	0.002671	0.007984	2.93E-05	0.000327	0.000301	0.001616	5.346968	
3	2019	Taxiways	Subbase Pl	Roller	Diesel	100	0.59	27.43692	0.002705	0.002726	5.75E-06	0.00034	0.000313	0.000362	0.964136	

ACEIT Output - Modified Asphalt Application Rates

3	2019	Taxiways	Topsoil Pla	Dozer	Diesel	175	0.59	32.96667	0.001619	0.003772	1.05E-05	0.000351	0.000323	0.000626	1.825638
3	2019	Taxiways	Topsoil Pla	Dump Truc	Diesel	600	0.59	32.96667	0.003127	0.009347	3.43E-05	0.000383	0.000353	0.001884	6.259883
3	2019	Taxiways	Topsoil Pla	Pickup Truc	Diesel	600	0.59	32.96667	0.003127	0.009347	3.43E-05	0.000383	0.000353	0.001884	6.259883

On-Road Sources
Units for Non-Greenhouse Gases Emission: Short Ton
Units for Greenhouse Gases (CO2, CH4, and N2O) Emission: Metric Ton

Scenario ID	Year	Project	Equipment	Equipment	On-road Ac	Fuel	Roadway T	Round Trip	Distance fo	Number of	Number of	Number of	Project Len	Project Wic	Project Are	Building He	Open Spac	Number of	Activity Rat	VMT	CO	NOx	SO2	PM10	PM2.5
1	2018	Cargo Apro	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--		43	428	250	--	--	--	--	--	1553	0.00203	0.003616	2.74E-05	6.43E-05	6.24E-05
1	2018	Cargo Apro	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	8	--		43	428	250	--	--	--	--	--	24744	0.021229	0.03378	0.000234	0.000466	0.000452
1	2018	Cargo Apro	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--		43	428	250	--	--	--	--	--	2199	0.002254	0.003122	2.09E-05	4.14E-05	4.01E-05
1	2018	Cargo Apro	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	4	--		43	428	250	--	--	--	--	--	13197	0.010983	0.017905	0.000125	0.000248	0.000241
1	2018	Cargo Apro	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	69	69	43	--	--	--	--	--	--	--	--	89010	0.713096	0.01521	0.00052	0.001711	0.001575
1	2018	Parking Lot	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--		43	970	150	--	--	--	--	--	2111	0.002311	0.004763	3.72E-05	8.74E-05	8.48E-05
1	2018	Parking Lot	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	10	--		43	970	150	--	--	--	--	--	33647	0.02775	0.045569	0.000319	0.000633	0.000614
1	2018	Parking Lot	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--		43	970	150	--	--	--	--	--	2991	0.002608	0.004097	2.83E-05	5.63E-05	5.46E-05
1	2018	Parking Lot	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	6	--		43	970	150	--	--	--	--	--	17945	0.015648	0.02458	0.00017	0.000338	0.000328
1	2018	Parking Lot	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	77	77	43	--	--	--	--	--	--	--	--	99330	0.795774	0.016974	0.00058	0.001909	0.001758
1	2018	Rehabilitat	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	4	--		43	3675	250	--	--	--	--	--	13331	0.011713	0.029094	0.000235	0.000552	0.000535
1	2018	Rehabilitat	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	62	--		43	3675	250	--	--	--	--	--	212461	0.17377	0.287267	0.002011	0.003998	0.003878
1	2018	Rehabilitat	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	6	--		43	3675	250	--	--	--	--	--	18885	0.016068	0.025737	0.000179	0.000355	0.000345
1	2018	Rehabilitat	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	33	--		43	3675	250	--	--	--	--	--	113313	0.092593	0.153182	0.001073	0.002132	0.002068
1	2018	Rehabilitat	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	49	49	43	--	--	--	--	--	--	--	--	63210	0.506401	0.010802	0.000369	0.001215	0.001119
2	2019	Building - 1	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	5	--		65	--	--	100000	--	--	--	--	23125	0.031687	0.062871	0.000225	0.002153	0.002089
2	2019	Building - 1	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	3	--		65	--	--	100000	--	--	--	--	12333	0.017541	0.033739	0.00012	0.001149	0.001115
2	2019	Building - 1	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	137.5	137.5	65	--	--	--	--	--	--	--	--	268125	2.254938	0.075501	0.001763	0.005399	0.004972
2	2019	Building - 1	Tractor Tra	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--		65	--	--	100000	--	--	--	0.0024	2400	0.005601	0.014607	4.39E-05	0.000659	0.00064
2	2019	Cargo Apro	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--		65	642	250	--	--	--	--	--	2329	0.005491	0.014193	4.27E-05	0.00064	0.000621
2	2019	Cargo Apro	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	8	--		65	642	250	--	--	--	--	--	37116	0.05081	0.100893	0.00036	0.003456	0.003353
2	2019	Cargo Apro	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--		65	642	250	--	--	--	--	--	3299	0.005072	0.009149	3.21E-05	0.000308	0.000299
2	2019	Cargo Apro	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	4	--		65	642	250	--	--	--	--	--	19795	0.026585	0.053642	0.000192	0.001843	0.001788
2	2019	Cargo Apro	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	69	69	65	--	--	--	--	--	--	--	--	134550	1.131569	0.037888	0.000884	0.002709	0.002495
2	2019	Parking Lot	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--		65	1455	150	--	--	--	--	--	3167	0.006788	0.01907	5.79E-05	0.000869	0.000843
2	2019	Parking Lot	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	10	--		65	1455	150	--	--	--	--	--	50470	0.0674	0.136642	0.00049	0.004698	0.004557
2	2019	Parking Lot	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--		65	1455	150	--	--	--	--	--	4486	0.006205	0.012215	4.36E-05	0.000418	0.000405
2	2019	Parking Lot	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	6	--		65	1455	150	--	--	--	--	--	26918	0.037231	0.073296	0.000261	0.002507	0.002432
2	2019	Parking Lot	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	77	77	65	--	--	--	--	--	--	--	--	150150	1.262765	0.04228	0.000987	0.003024	0.002784
3	2019	Building - 1	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	3	--		129	--	--	100000	--	--	--	--	23125	0.031991	0.048683	0.000247	0.002157	0.002092
3	2019	Building - 1	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	2	--		129	--	--	100000	--	--	--	--	12333	0.018385	0.025972	0.000132	0.001152	0.001117
3	2019	Building - 1	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	137.5	137.5	129	--	--	--	--	--	--	--	--	532125	1.788896	0.131765	0.003258	0.00319	0.002937
3	2019	Building - 1	Tractor Tra	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--		129	--	--	100000	--	--	--	0.0024	2400	0.006921	0.011424	4.74E-05	0.000663	0.000643
3	2019	Cargo Apro	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--		129	855	250	--	--	--	--	--	3101	0.008006	0.014744	6.12E-05	0.000854	0.000829
3	2019	Cargo Apro	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	5	--		129	855	250	--	--	--	--	--	49430	0.063707	0.104031	0.000528	0.004605	0.004467
3	2019	Cargo Apro	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--		129	855	250	--	--	--	--	--	4394	0.007502	0.009259	4.71E-05	0.000411	0.000399
3	2019	Cargo Apro	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	3	--		129	855	250	--	--	--	--	--	26363	0.03508	0.055491	0.000281	0.002457	0.002384
3	2019	Cargo Apro	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	69	69	129	--	--	--	--	--	--	--	--	267030	0.8977	0.066122	0.001635	0.001601	0.001474
3	2019	Drainage S	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	27	27	129	--	--	--	--	--	--	--	--	104490	0.351274	0.025874	0.00064	0.000626	0.000577
3	2019	Fuel Tanks	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--		129	415	100	--	--	--	--	--	602	0.004137	0.002907	1.21E-05	0.000171	0.000166
3	2019	Fuel Tanks	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--		129	415	100	--	--	--	--	--	9597	0.012466	0.020199	0.000102	0.000894	0.000867
3	2019	Fuel Tanks	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--		129	415	100	--	--	--	--	--	853	0.004123	0.001814	9.37E-06	8.29E-05	8.04E-05
3	2019	Fuel Tanks	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--		129	415	100	--	--	--	--	--	5118	0.008192	0.010781	5.48E-05	0.000479	0.000464
3	2019	Fuel Tanks	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	64	64	129	--	--	--	--	--	--	--	--	247680	0.83265	0.061331	0.001516	0.001485	0.001367
3	2019	Parking Lot	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--		129	2425	150	--	--	--	--	--	5278	0.011377	0.025056	0.000104	0.00145	0.001407
3	2019	Parking Lot	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	9	--		129	2425	150	--	--	--	--	--	84117	0.110038	0.177043	0.000898	0.007838	0.007603
3	2019	Parking Lot	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--		129	2425	150	--	--	--	--	--	7477	0.010443	0.015741	7.99E-05	0.000697	0.000677
3	2019	Parking Lot	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	5	--		129	2425	150	--	--	--	--	--	44863	0.05935	0.094428	0.000479	0.004181	0.004056
3	2019	Parking Lot	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	77	77	129	--	--	--	--	--	--	--	--	297990	1.001782	0.073788	0.001825	0.001786	0.001645
3	2019	Taxiways	Asphalt 18	Combinatic	Material De	Diesel	Urban Unre	40	5	1	--		129	1205	100	--	--	--	--	--	1748	0.005912	0.008336	3.46E-05	0.000484	0.00047
3	2019	Taxiways	Cement Mi	Single Unit	Material De	Diesel	Urban Unre	40	5	3	--		129	1205	100	--	--	--	--	--	27866	0.036514	0.058651	0.000297	0.002597	0.002519
3	2019	Taxiways	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	1	--		129	1205	100	--	--	--	--	--	2477	0.005673	0.005229	2.67E-05	0.000234	0.000227
3	2019	Taxiways	Dump Truc	Single Unit	Material De	Diesel	Urban Unre	40	5	2	--		129	1205	100	--	--	--	--	--	14862	0.020798	0.031289	0.000159	0.001386	0.001345
3	2019	Taxiways	Passenger	Passenger	Employee (	Gasoline	Urban Unre	30	--	65	65	129	--	--	--	--	--	--	--	--	251550	0.84566	0.062289	0.00154	0.001508	0.001389

Fugitive Sources
Units for Non-Greenhouse Gases Emission: Short Ton

Scenario ID	Year	Project	Fugitive So	Number of	CO	NOx	SO2	PM10	VOC
1	2018	Cargo Apro	Concrete M	2	0	0	0	0.09155	0
1	2018	Cargo Apro	Material M	2	0	0	0	0.01395	0
1	2018	Cargo Apro	Material M	2	0	0	0	0.04535	0
1	2018	Cargo Apro	Soil Handli	2	0	0	0	0.0303	0
1	2018	Cargo Apro	Unstabilize	2	0	0	0	7.20E-09	0
1	2018	Parking Lot	Asphalt Dry	2	0	0	0	0	1.940305
1	2018	Parking Lot	Asphalt Sto	2	0.35205	0.022	0.004045	0.0241	0.0109
1	2018	Parking Lot	Material M	2	0	0	0	0.01795	0
1	2018	Parking Lot	Material M	2	0	0	0	0.05955	0
1	2018	Parking Lot	Soil Handli	2	0	0	0	0.0412	0
1	2018	Parking Lot	Unstabilize	2	0	0	0	9.79E-09	0
1	2018	Rehabilitat	Asphalt Dry	2	0	0	0	0	10.44515
1	2018	Rehabilitat	Asphalt Sto	2	2.223	0.1388	0.02555	0.15225	0.06885
1	2018	Rehabilitat	Material M	2	0	0	0	0.1048	0
1	2018	Rehabilitat	Material M	2	0	0	0	0.3173	0
1	2018	Rehabilitat	Soil Handli	2	0	0	0	0.26005	0
1	2018	Rehabilitat	Unstabilize	2	0	0	0	6.18E-08	0
2	2019	Building - 1	Concrete M	3	0	0	0	0.08555	0
2	2019	Building - 1	Material M	3	0	0	0	0.01205	0
2	2019	Building - 1	Material M	3	0	0	0	0.03695	0
2	2019	Cargo Apro	Concrete M	3	0	0	0	0.13735	0
2	2019	Cargo Apro	Material M	3	0	0	0	0.0211	0
2	2019	Cargo Apro	Material M	3	0	0	0	0.06845	0
2	2019	Cargo Apro	Soil Handli	3	0	0	0	0.04545	0
2	2019	Cargo Apro	Unstabilize	3	0	0	0	1.62E-08	0
2	2019	Parking Lot	Asphalt Dry	3	0	0	0	0	2.91044
2	2019	Parking Lot	Asphalt Sto	3	0.52805	0.03295	0.00605	0.03615	0.01635
2	2019	Parking Lot	Material M	3	0	0	0	0.02715	0
2	2019	Parking Lot	Material M	3	0	0	0	0.0899	0
2	2019	Parking Lot	Soil Handli	3	0	0	0	0.06175	0
2	2019	Parking Lot	Unstabilize	3	0	0	0	2.20E-08	0
3	2019	Building - 1	Concrete M	6	0	0	0	0.08555	0
3	2019	Building - 1	Material M	6	0	0	0	0.01495	0
3	2019	Building - 1	Material M	6	0	0	0	0.04555	0
3	2019	Cargo Apro	Concrete M	6	0	0	0	0.1829	0
3	2019	Cargo Apro	Material M	6	0	0	0	0.02995	0
3	2019	Cargo Apro	Material M	6	0	0	0	0.0965	0
3	2019	Cargo Apro	Soil Handli	6	0	0	0	0.0605	0
3	2019	Cargo Apro	Unstabilize	6	0	0	0	4.31E-08	0
3	2019	Drainage S	Material M	6	0	0	0	0	0
3	2019	Drainage S	Material M	6	0	0	0	0.001933	0
3	2019	Drainage S	Soil Handli	6	0	0	0	0.003397	0
3	2019	Drainage S	Unstabilize	6	0	0	0	2.42E-09	0
3	2019	Fuel Tanks	Concrete M	6	0	0	0	0.0355	0
3	2019	Fuel Tanks	Material M	6	0	0	0	0.01195	0
3	2019	Fuel Tanks	Material M	6	0	0	0	0.0393	0
3	2019	Fuel Tanks	Soil Handli	6	0	0	0	0.01175	0
3	2019	Fuel Tanks	Unstabilize	6	0	0	0	8.37E-09	0
3	2019	Parking Lot	Asphalt Dry	6	0	0	0	0	4.850745
3	2019	Parking Lot	Asphalt Sto	6	0.8801	0.05495	0.0101	0.06025	0.02725
3	2019	Parking Lot	Material M	6	0	0	0	0.0479	0
3	2019	Parking Lot	Material M	6	0	0	0	0.15765	0
3	2019	Parking Lot	Soil Handli	6	0	0	0	0.10295	0
3	2019	Parking Lot	Unstabilize	6	0	0	0	7.34E-08	0
3	2019	Taxiways	Asphalt Dry	6	0	0	0	0	1.60692
3	2019	Taxiways	Asphalt Sto	6	0.29155	0.0182	0.00335	0.01995	0.00905
3	2019	Taxiways	Material M	6	0	0	0	0.02095	0
3	2019	Taxiways	Material M	6	0	0	0	0.0676	0
3	2019	Taxiways	Soil Handli	6	0	0	0	0.0341	0
3	2019	Taxiways	Unstabilize	6	0	0	0	2.43E-08	0

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INPUT DATA AND SPECIFICATIONS

State/County
Maryland
Anne Arundel County

Scenarios

Scenario ID	Year	Number of	Season	Average Da	Max Daily T	Min Daily Temp Change (degF)
1	2018	2	Winter	30 < T <= 5	0 <= Chang	0 <= Change in T < 10
2	2019	3	Winter	30 < T <= 5	0 <= Chang	0 <= Change in T < 10
3	2019	6	Summer	50 < T <= 8	10 <= Chan	10 <= Change in T < 20
4						

Project Final Selections

Scenario ID	Project	Constructic	Equipment	Fuel Type	
1	Cargo Apro	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Cargo Apro	Clearing an	Chipper/St	Diesel	
1	Cargo Apro	Clearing an	Pickup Truc	Diesel	

ACEIT Output - Modified Asphalt Application Rates

VOC	CO2	CH4	N2O
0.000321	3.636388	0.000136	0.000113
0.00086	31.06417	0.001631	0.001763
0.000104	2.76624	0.000145	0.000157
0.000433	16.56267	0.00087	0.00094
0.019094	29.85175	0.004254	0.000378
0.000324	4.935856	0.000185	0.000154
0.001086	42.22427	0.002218	0.002398
0.000107	3.755603	0.000197	0.000213
0.000643	22.53237	0.001183	0.001279
0.021307	33.31282	0.004747	0.000422
0.001313	31.12425	0.001171	0.00097
0.006745	266.5994	0.014003	0.01514
0.000646	23.70661	0.001245	0.001346
0.003591	142.1856	0.007468	0.008075
0.013559	21.19907	0.003021	0.000269
0.001065	29.03264	0.005088	0.001601
0.000633	15.49333	0.002713	0.000854
0.083876	101.1965	0.016271	0.001147
0.000505	5.618819	0.000697	0.000157
0.000505	5.453474	0.000677	0.000153
0.001704	46.59713	0.008166	0.002569
0.000208	4.150096	0.000726	0.000228
0.000857	24.84382	0.004355	0.00137
0.042091	50.78227	0.008165	0.000576
0.000508	7.405007	0.00092	0.000208
0.002145	63.33689	0.011104	0.003493
0.000212	5.63289	0.000987	0.00031
0.001274	33.79984	0.005922	0.001863
0.046971	56.67007	0.009112	0.000642
0.000356	31.94567	0.00512	0.001601
0.000225	17.05173	0.002731	0.000854
0.112505	210.7102	0.033799	0.002411
0.000832	6.063979	0.000704	0.000157
0.000834	7.824057	0.000909	0.000203
0.000634	68.23309	0.010944	0.003421
0.000106	6.085607	0.000973	0.000304
0.000368	36.40352	0.005837	0.001825
0.056457	105.7382	0.016961	0.00121
0.022092	41.37582	0.006637	0.000473
0.000825	1.549541	0.000176	3.95E-05
0.000126	13.24874	0.002125	0.000664
9.24E-05	1.210599	0.000189	5.90E-05
0.000109	7.082361	0.001133	0.000354
0.052366	98.07601	0.015732	0.001122
0.000843	13.29009	0.001547	0.000346
0.001123	116.1328	0.018624	0.005822
0.000118	10.33007	0.001655	0.000518
0.000617	61.94556	0.009933	0.003105
0.063003	117.9977	0.018927	0.00135
0.000829	4.42693	0.000512	0.000115
0.000374	38.47275	0.00617	0.001929
9.86E-05	3.446412	0.000548	0.000171
0.000235	20.53348	0.003291	0.001029
0.053184	99.60845	0.015977	0.00114

ACEIT Output - Modified Asphalt Application Rates

1	Cargo Apro	Concrete P	Air Compre	Diesel	
1	Cargo Apro	Concrete P	Concrete S	Diesel	
1	Cargo Apro	Concrete P	Concrete T	Diesel	
1	Cargo Apro	Concrete P	Other Gene	Diesel	
1	Cargo Apro	Concrete P	Pickup Truc	Diesel	
1	Cargo Apro	Concrete P	Rubber Tire	Diesel	
1	Cargo Apro	Concrete P	Slip Form P	Diesel	
1	Cargo Apro	Concrete P	Surfacing E	Diesel	
1	Cargo Apro	Drainage -	Dozer	Diesel	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	
1	Cargo Apro	Drainage -	Excavator	Diesel	
1	Cargo Apro	Drainage -	Loader	Diesel	
1	Cargo Apro	Drainage -	Other Gene	Diesel	
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	
1	Cargo Apro	Drainage -	Roller	Diesel	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	
1	Cargo Apro	Drainage -	Loader	Diesel	
1	Cargo Apro	Drainage -	Other Gene	Diesel	
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	
1	Cargo Apro	Drainage -	Tractors/Lc	Diesel	
1	Cargo Apro	Dust Contr	Water Truc	Diesel	
1	Cargo Apro	Excavation	Dozer	Diesel	
1	Cargo Apro	Excavation	Dump Truc	Diesel	
1	Cargo Apro	Excavation	Pickup Truc	Diesel	
1	Cargo Apro	Excavation	Roller	Diesel	
1	Cargo Apro	Excavation	Dozer	Diesel	
1	Cargo Apro	Excavation	Dump Truc	Diesel	
1	Cargo Apro	Excavation	Excavator	Diesel	
1	Cargo Apro	Excavation	Pickup Truc	Diesel	
1	Cargo Apro	Excavation	Roller	Diesel	
1	Cargo Apro	Excavation	Scraper	Diesel	
1	Cargo Apro	Excavation	Dozer	Diesel	
1	Cargo Apro	Fencing	Concrete T	Diesel	
1	Cargo Apro	Fencing	Dump Truc	Diesel	
1	Cargo Apro	Fencing	Other Gene	Diesel	
1	Cargo Apro	Fencing	Pickup Truc	Diesel	
1	Cargo Apro	Fencing	Skid Steer l	Diesel	
1	Cargo Apro	Fencing	Tractors/Lc	Diesel	
1	Cargo Apro	Grading	Dozer	Diesel	
1	Cargo Apro	Grading	Grader	Diesel	
1	Cargo Apro	Grading	Roller	Diesel	
1	Cargo Apro	Hydroseed	Hydroseed	Diesel	
1	Cargo Apro	Hydroseed	Off-Road T	Diesel	
1	Cargo Apro	Lighting	Dump Truc	Diesel	
1	Cargo Apro	Lighting	Loader	Diesel	
1	Cargo Apro	Lighting	Other Gene	Diesel	
1	Cargo Apro	Lighting	Pickup Truc	Diesel	
1	Cargo Apro	Lighting	Skid Steer l	Diesel	
1	Cargo Apro	Lighting	Tractors/Lc	Diesel	
1	Cargo Apro	Markings	Flatbed Tru	Diesel	
1	Cargo Apro	Markings	Other Gene	Diesel	
1	Cargo Apro	Markings	Pickup Truc	Diesel	
1	Cargo Apro	Sealing/Fue	Distributing	Diesel	
1	Cargo Apro	Sealing/Fue	Other Gene	Diesel	
1	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	
1	Cargo Apro	Soil Erosior	Other Gene	Diesel	
1	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	
1	Cargo Apro	Soil Erosior	Pumps	Diesel	
1	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	
1	Cargo Apro	Subbase Pl	Dozer	Diesel	
1	Cargo Apro	Subbase Pl	Dump Truc	Diesel	
1	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	
1	Cargo Apro	Subbase Pl	Roller	Diesel	
1	Cargo Apro	Topsoil Pla	Dozer	Diesel	
1	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	
1	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	
1	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	
1	Parking Lot	Asphalt Pla	Dump Truc	Diesel	
1	Parking Lot	Asphalt Pla	Other Gene	Diesel	
1	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	
1	Parking Lot	Asphalt Pla	Roller	Diesel	
1	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	
1	Parking Lot	Asphalt Pla	Surfacing E	Diesel	
1	Parking Lot	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Parking Lot	Clearing an	Chipper/St	Diesel	
1	Parking Lot	Clearing an	Pickup Truc	Diesel	
1	Parking Lot	Curbing	Concrete T	Diesel	
1	Parking Lot	Curbing	Curb/Gutte	Diesel	
1	Parking Lot	Curbing	Other Gene	Diesel	
1	Parking Lot	Curbing	Pickup Truc	Diesel	
1	Parking Lot	Drainage -	Dozer	Diesel	
1	Parking Lot	Drainage -	Dump Truc	Diesel	
1	Parking Lot	Drainage -	Excavator	Diesel	
1	Parking Lot	Drainage -	Loader	Diesel	
1	Parking Lot	Drainage -	Other Gene	Diesel	
1	Parking Lot	Drainage -	Pickup Truc	Diesel	
1	Parking Lot	Drainage -	Roller	Diesel	
1	Parking Lot	Drainage -	Dump Truc	Diesel	
1	Parking Lot	Drainage -	Loader	Diesel	
1	Parking Lot	Drainage -	Other Gene	Diesel	
1	Parking Lot	Drainage -	Pickup Truc	Diesel	
1	Parking Lot	Drainage -	Tractors/Lc	Diesel	
1	Parking Lot	Excavation	Dozer	Diesel	
1	Parking Lot	Excavation	Dump Truc	Diesel	
1	Parking Lot	Excavation	Pickup Truc	Diesel	
1	Parking Lot	Excavation	Roller	Diesel	
1	Parking Lot	Excavation	Dozer	Diesel	
1	Parking Lot	Excavation	Dump Truc	Diesel	
1	Parking Lot	Excavation	Excavator	Diesel	
1	Parking Lot	Excavation	Pickup Truc	Diesel	
1	Parking Lot	Excavation	Roller	Diesel	
1	Parking Lot	Excavation	Scraper	Diesel	
1	Parking Lot	Excavation	Dozer	Diesel	
1	Parking Lot	Fencing	Concrete T	Diesel	
1	Parking Lot	Fencing	Dump Truc	Diesel	
1	Parking Lot	Fencing	Other Gene	Diesel	
1	Parking Lot	Fencing	Pickup Truc	Diesel	
1	Parking Lot	Fencing	Skid Steer l	Diesel	
1	Parking Lot	Fencing	Tractors/Lc	Diesel	
1	Parking Lot	Grading	Dozer	Diesel	
1	Parking Lot	Grading	Grader	Diesel	
1	Parking Lot	Grading	Roller	Diesel	
1	Parking Lot	Hydroseed	Hydroseed	Diesel	
1	Parking Lot	Hydroseed	Off-Road T	Diesel	
1	Parking Lot	Markings	Flatbed Tru	Diesel	
1	Parking Lot	Markings	Other Gene	Diesel	
1	Parking Lot	Markings	Pickup Truc	Diesel	
1	Parking Lot	Sidewalks	Concrete T	Diesel	
1	Parking Lot	Sidewalks	Dump Truc	Diesel	
1	Parking Lot	Sidewalks	Pickup Truc	Diesel	
1	Parking Lot	Sidewalks	Tractors/Lc	Diesel	
1	Parking Lot	Sidewalks	Vibratory C	Diesel	
1	Parking Lot	Soil Erosior	Other Gene	Diesel	
1	Parking Lot	Soil Erosior	Pickup Truc	Diesel	
1	Parking Lot	Soil Erosior	Pumps	Diesel	
1	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	
1	Parking Lot	Street Light	Dump Truc	Diesel	
1	Parking Lot	Street Light	Loader	Diesel	
1	Parking Lot	Street Light	Other Gene	Diesel	
1	Parking Lot	Street Light	Pickup Truc	Diesel	
1	Parking Lot	Street Light	Skid Steer l	Diesel	
1	Parking Lot	Street Light	Tractors/Lc	Diesel	
1	Parking Lot	Subbase Pl	Dozer	Diesel	
1	Parking Lot	Subbase Pl	Dump Truc	Diesel	
1	Parking Lot	Subbase Pl	Pickup Truc	Diesel	
1	Parking Lot	Subbase Pl	Roller	Diesel	
1	Parking Lot	Topsoil Pla	Dozer	Diesel	
1	Parking Lot	Topsoil Pla	Dump Truc	Diesel	
1	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	
1	Parking Lot	Tree Planti	Flatbed Tru	Diesel	
1	Parking Lot	Tree Planti	Other Gene	Diesel	
1	Parking Lot	Tree Planti	Pickup Truc	Diesel	
1	Parking Lot	Tree Planti	Tractors/Lc	Diesel	
1	Rehabilitat	Asphalt Pla	Asphalt Pa	Diesel	
1	Rehabilitat	Asphalt Pla	Dump Truc	Diesel	
1	Rehabilitat	Asphalt Pla	Other Gene	Diesel	
1	Rehabilitat	Asphalt Pla	Pickup Truc	Diesel	
1	Rehabilitat	Asphalt Pla	Roller	Diesel	
1	Rehabilitat	Asphalt Pla	Skid Steer l	Diesel	
1	Rehabilitat	Asphalt Pla	Surfacing E	Diesel	
1	Rehabilitat	Cold Millin	Cold Plane	Diesel	
1	Rehabilitat	Cold Millin	Dump Truc	Diesel	
1	Rehabilitat	Cold Millin	Pickup Truc	Diesel	

ACEIT Output - Modified Asphalt Application Rates

1	Rehabilitat	Cold Millin	Sweepers	Diesel	
1	Rehabilitat	Cold Millin	Water Truc	Diesel	
1	Rehabilitat	Dust Contr	Water Truc	Diesel	
1	Rehabilitat	Excavation	Dozer	Diesel	
1	Rehabilitat	Excavation	Dump Truc	Diesel	
1	Rehabilitat	Excavation	Excavator	Diesel	
1	Rehabilitat	Excavation	Pickup Truc	Diesel	
1	Rehabilitat	Excavation	Roller	Diesel	
1	Rehabilitat	Excavation	Dozer	Diesel	
1	Rehabilitat	Grading	Dozer	Diesel	
1	Rehabilitat	Grading	Grader	Diesel	
1	Rehabilitat	Grading	Roller	Diesel	
1	Rehabilitat	Hydroseed	Hydroseed	Diesel	
1	Rehabilitat	Hydroseed	Off-Road T	Diesel	
1	Rehabilitat	Lighting	Dump Truc	Diesel	
1	Rehabilitat	Lighting	Loader	Diesel	
1	Rehabilitat	Lighting	Other Gen	Diesel	
1	Rehabilitat	Lighting	Pickup Truc	Diesel	
1	Rehabilitat	Lighting	Skid Steer l	Diesel	
1	Rehabilitat	Lighting	Tractors/Lc	Diesel	
1	Rehabilitat	Markings	Flatbed Tru	Diesel	
1	Rehabilitat	Markings	Other Gen	Diesel	
1	Rehabilitat	Markings	Pickup Truc	Diesel	
1	Rehabilitat	Sealing Rar	Crack Clear	Diesel	
1	Rehabilitat	Sealing Rar	Crack Filler	Diesel	
1	Rehabilitat	Sealing Rar	Flatbed Tru	Diesel	
1	Rehabilitat	Sealing Rar	Other Gen	Diesel	
1	Rehabilitat	Sealing Rar	Pickup Truc	Diesel	
1	Rehabilitat	Soil Erosior	Other Gen	Diesel	
1	Rehabilitat	Soil Erosior	Pickup Truc	Diesel	
1	Rehabilitat	Soil Erosior	Pumps	Diesel	
1	Rehabilitat	Soil Erosior	Tractors/Lc	Diesel	
1	Rehabilitat	Subbase Pl	Dozer	Diesel	
1	Rehabilitat	Subbase Pl	Dump Truc	Diesel	
1	Rehabilitat	Subbase Pl	Pickup Truc	Diesel	
1	Rehabilitat	Subbase Pl	Roller	Diesel	
1	Rehabilitat	Topsoil Pla	Dozer	Diesel	
1	Rehabilitat	Topsoil Pla	Dump Truc	Diesel	
1	Rehabilitat	Topsoil Pla	Pickup Truc	Diesel	
2	Building - 1	Concrete F	Backhoe	Diesel	
2	Building - 1	Concrete F	Concrete P	Diesel	
2	Building - 1	Concrete F	Concrete R	Diesel	
2	Building - 1	Concrete F	Excavator	Diesel	
2	Building - 1	Concrete F	Fork Truck	Diesel	
2	Building - 1	Concrete F	Tool Truck	Diesel	
2	Building - 1	Concrete F	Tractor Tra	Diesel	
2	Building - 1	Constructic	Survey Cre	Diesel	
2	Building - 1	Constructic	Tractor Tra	Diesel	
2	Building - 1	Exterior W	Fork Truck	Diesel	
2	Building - 1	Exterior W	Generator	Diesel	
2	Building - 1	Exterior W	Grout Mixe	Diesel	
2	Building - 1	Exterior W	Grout Whe	Diesel	
2	Building - 1	Exterior W	Man Lift	Diesel	
2	Building - 1	Exterior W	Tool Truck	Diesel	
2	Building - 1	Exterior W	Tractor Tra	Diesel	
2	Building - 1	Exterior W	Truck Tow	Diesel	
2	Building - 1	Interior Bui	Fork Truck	Diesel	
2	Building - 1	Interior Bui	Man Lift	Diesel	
2	Building - 1	Interior Bui	Tool Truck	Diesel	
2	Building - 1	Interior Bui	Tractor Tra	Diesel	
2	Building - 1	Roofing	High Lift	Diesel	
2	Building - 1	Roofing	Man Lift	Diesel	
2	Building - 1	Roofing	Material D	Diesel	
2	Building - 1	Roofing	Tractor Tra	Diesel	
2	Building - 1	Roofing	Truck Tow	Diesel	
2	Building - 1	Security &	High Lift	Diesel	
2	Building - 1	Security &	Tool Truck	Diesel	
2	Building - 1	Structural S	90 Ton Cra	Diesel	
2	Building - 1	Structural S	Concrete P	Diesel	
2	Building - 1	Structural S	Concrete T	Diesel	
2	Building - 1	Structural S	Fork Truck	Diesel	
2	Building - 1	Structural S	Tool Truck	Diesel	
2	Building - 1	Structural S	Tractor Tra	Diesel	
2	Building - 1	Structural S	Trowel Ma	Diesel	
2	Building - 1	Structural S	Truck Tow	Diesel	
2	Cargo Apro	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	Cargo Apro	Clearing an	Chipper/St	Diesel	
2	Cargo Apro	Clearing an	Pickup Truc	Diesel	
2	Cargo Apro	Concrete P	Air Compre	Diesel	
2	Cargo Apro	Concrete P	Concrete S	Diesel	
2	Cargo Apro	Concrete P	Concrete T	Diesel	
2	Cargo Apro	Concrete P	Other Gen	Diesel	
2	Cargo Apro	Concrete P	Pickup Truc	Diesel	
2	Cargo Apro	Concrete P	Rubber Tire	Diesel	
2	Cargo Apro	Concrete P	Slip Form P	Diesel	
2	Cargo Apro	Concrete P	Surfacing E	Diesel	
2	Cargo Apro	Drainage -	Dozer	Diesel	
2	Cargo Apro	Drainage -	Dump Truc	Diesel	
2	Cargo Apro	Drainage -	Excavator	Diesel	
2	Cargo Apro	Drainage -	Loader	Diesel	
2	Cargo Apro	Drainage -	Other Gen	Diesel	
2	Cargo Apro	Drainage -	Pickup Truc	Diesel	
2	Cargo Apro	Drainage -	Roller	Diesel	
2	Cargo Apro	Drainage -	Dump Truc	Diesel	
2	Cargo Apro	Drainage -	Loader	Diesel	
2	Cargo Apro	Drainage -	Other Gen	Diesel	
2	Cargo Apro	Drainage -	Pickup Truc	Diesel	
2	Cargo Apro	Drainage -	Tractors/Lc	Diesel	
2	Cargo Apro	Dust Contr	Water Truc	Diesel	
2	Cargo Apro	Excavation	Dozer	Diesel	
2	Cargo Apro	Excavation	Dump Truc	Diesel	
2	Cargo Apro	Excavation	Pickup Truc	Diesel	
2	Cargo Apro	Excavation	Roller	Diesel	
2	Cargo Apro	Excavation	Dozer	Diesel	
2	Cargo Apro	Excavation	Dump Truc	Diesel	
2	Cargo Apro	Excavation	Excavator	Diesel	
2	Cargo Apro	Excavation	Pickup Truc	Diesel	
2	Cargo Apro	Excavation	Roller	Diesel	
2	Cargo Apro	Excavation	Scraper	Diesel	
2	Cargo Apro	Excavation	Dozer	Diesel	
2	Cargo Apro	Fencing	Concrete T	Diesel	
2	Cargo Apro	Fencing	Dump Truc	Diesel	
2	Cargo Apro	Fencing	Other Gen	Diesel	
2	Cargo Apro	Fencing	Pickup Truc	Diesel	
2	Cargo Apro	Fencing	Skid Steer l	Diesel	
2	Cargo Apro	Fencing	Tractors/Lc	Diesel	
2	Cargo Apro	Grading	Dozer	Diesel	
2	Cargo Apro	Grading	Grader	Diesel	
2	Cargo Apro	Grading	Roller	Diesel	
2	Cargo Apro	Hydroseed	Hydroseed	Diesel	
2	Cargo Apro	Hydroseed	Off-Road T	Diesel	
2	Cargo Apro	Lighting	Dump Truc	Diesel	
2	Cargo Apro	Lighting	Loader	Diesel	
2	Cargo Apro	Lighting	Other Gen	Diesel	
2	Cargo Apro	Lighting	Pickup Truc	Diesel	
2	Cargo Apro	Lighting	Skid Steer l	Diesel	
2	Cargo Apro	Lighting	Tractors/Lc	Diesel	
2	Cargo Apro	Markings	Flatbed Tru	Diesel	
2	Cargo Apro	Markings	Other Gen	Diesel	
2	Cargo Apro	Markings	Pickup Truc	Diesel	
2	Cargo Apro	Sealing/Fue	Distributin	Diesel	
2	Cargo Apro	Sealing/Fue	Other Gen	Diesel	
2	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	
2	Cargo Apro	Soil Erosior	Other Gen	Diesel	
2	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	
2	Cargo Apro	Soil Erosior	Pumps	Diesel	
2	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	
2	Cargo Apro	Subbase Pl	Dozer	Diesel	
2	Cargo Apro	Subbase Pl	Dump Truc	Diesel	
2	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	
2	Cargo Apro	Subbase Pl	Roller	Diesel	
2	Cargo Apro	Topsoil Pla	Dozer	Diesel	
2	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	
2	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	
2	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	
2	Parking Lot	Asphalt Pla	Dump Truc	Diesel	
2	Parking Lot	Asphalt Pla	Other Gen	Diesel	
2	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	
2	Parking Lot	Asphalt Pla	Roller	Diesel	
2	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	
2	Parking Lot	Asphalt Pla	Surfacing E	Diesel	
2	Parking Lot	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	Parking Lot	Clearing an	Chipper/St	Diesel	

ACEIT Output - Modified Asphalt Application Rates

2	Parking Lot	Clearing an	Pickup Truc	Diesel
2	Parking Lot	Curbing	Concrete T	Diesel
2	Parking Lot	Curbing	Curb/Gutte	Diesel
2	Parking Lot	Curbing	Other Gene	Diesel
2	Parking Lot	Curbing	Pickup Truc	Diesel
2	Parking Lot	Drainage -	Dozer	Diesel
2	Parking Lot	Drainage -	Dump Truc	Diesel
2	Parking Lot	Drainage -	Excavator	Diesel
2	Parking Lot	Drainage -	Loader	Diesel
2	Parking Lot	Drainage -	Other Gene	Diesel
2	Parking Lot	Drainage -	Pickup Truc	Diesel
2	Parking Lot	Drainage -	Roller	Diesel
2	Parking Lot	Drainage -	Dump Truc	Diesel
2	Parking Lot	Drainage -	Loader	Diesel
2	Parking Lot	Drainage -	Other Gene	Diesel
2	Parking Lot	Drainage -	Pickup Truc	Diesel
2	Parking Lot	Drainage -	Tractors/Lc	Diesel
2	Parking Lot	Excavation	Dozer	Diesel
2	Parking Lot	Excavation	Dump Truc	Diesel
2	Parking Lot	Excavation	Pickup Truc	Diesel
2	Parking Lot	Excavation	Roller	Diesel
2	Parking Lot	Excavation	Dozer	Diesel
2	Parking Lot	Excavation	Dump Truc	Diesel
2	Parking Lot	Excavation	Excavator	Diesel
2	Parking Lot	Excavation	Pickup Truc	Diesel
2	Parking Lot	Excavation	Roller	Diesel
2	Parking Lot	Excavation	Scraper	Diesel
2	Parking Lot	Excavation	Dozer	Diesel
2	Parking Lot	Fencing	Concrete T	Diesel
2	Parking Lot	Fencing	Dump Truc	Diesel
2	Parking Lot	Fencing	Other Gene	Diesel
2	Parking Lot	Fencing	Pickup Truc	Diesel
2	Parking Lot	Fencing	Skid Steer l	Diesel
2	Parking Lot	Fencing	Tractors/Lc	Diesel
2	Parking Lot	Grading	Dozer	Diesel
2	Parking Lot	Grading	Grader	Diesel
2	Parking Lot	Grading	Roller	Diesel
2	Parking Lot	Hydroseed	Hydroseed	Diesel
2	Parking Lot	Hydroseed	Off-Road T	Diesel
2	Parking Lot	Markings	Flatbed Tru	Diesel
2	Parking Lot	Markings	Other Gene	Diesel
2	Parking Lot	Markings	Pickup Truc	Diesel
2	Parking Lot	Sidewalks	Concrete T	Diesel
2	Parking Lot	Sidewalks	Dump Truc	Diesel
2	Parking Lot	Sidewalks	Pickup Truc	Diesel
2	Parking Lot	Sidewalks	Tractors/Lc	Diesel
2	Parking Lot	Sidewalks	Vibratory C	Diesel
2	Parking Lot	Soil Erosior	Other Gene	Diesel
2	Parking Lot	Soil Erosior	Pickup Truc	Diesel
2	Parking Lot	Soil Erosior	Pumps	Diesel
2	Parking Lot	Soil Erosior	Tractors/Lc	Diesel
2	Parking Lot	Street Light	Dump Truc	Diesel
2	Parking Lot	Street Light	Loader	Diesel
2	Parking Lot	Street Light	Other Gene	Diesel
2	Parking Lot	Street Light	Pickup Truc	Diesel
2	Parking Lot	Street Light	Skid Steer l	Diesel
2	Parking Lot	Street Light	Tractors/Lc	Diesel
2	Parking Lot	Subbase Pl	Dozer	Diesel
2	Parking Lot	Subbase Pl	Dump Truc	Diesel
2	Parking Lot	Subbase Pl	Pickup Truc	Diesel
2	Parking Lot	Subbase Pl	Roller	Diesel
2	Parking Lot	Topsoil Pla	Dozer	Diesel
2	Parking Lot	Topsoil Pla	Dump Truc	Diesel
2	Parking Lot	Topsoil Pla	Pickup Truc	Diesel
2	Parking Lot	Tree Planti	Flatbed Tru	Diesel
2	Parking Lot	Tree Planti	Other Gene	Diesel
2	Parking Lot	Tree Planti	Pickup Truc	Diesel
2	Parking Lot	Tree Planti	Tractors/Lc	Diesel
3	Building - 1	Concrete F	Backhoe	Diesel
3	Building - 1	Concrete F	Concrete P	Diesel
3	Building - 1	Concrete F	Concrete R	Diesel
3	Building - 1	Concrete F	Excavator	Diesel
3	Building - 1	Concrete F	Fork Truck	Diesel
3	Building - 1	Concrete F	Tool Truck	Diesel
3	Building - 1	Concrete F	Tractor Tra	Diesel
3	Building - 1	Constructic	Survey Cre	Diesel
3	Building - 1	Constructic	Tractor Tra	Diesel
3	Building - 1	Exterior W	Fork Truck	Diesel
3	Building - 1	Exterior W	Generator	Diesel
3	Building - 1	Exterior W	Grout Mixe	Diesel
3	Building - 1	Exterior W	Grout Whe	Diesel
3	Building - 1	Exterior W	Man Lift	Diesel
3	Building - 1	Exterior W	Tool Truck	Diesel
3	Building - 1	Exterior W	Tractor Tra	Diesel
3	Building - 1	Exterior W	Truck Towe	Diesel
3	Building - 1	Interior Bui	Fork Truck	Diesel
3	Building - 1	Interior Bui	Man Lift	Diesel
3	Building - 1	Interior Bui	Tool Truck	Diesel
3	Building - 1	Interior Bui	Tractor Tra	Diesel
3	Building - 1	Roofing	High Lift	Diesel
3	Building - 1	Roofing	Man Lift	Diesel
3	Building - 1	Roofing	Material De	Diesel
3	Building - 1	Roofing	Tractor Tra	Diesel
3	Building - 1	Roofing	Truck Towe	Diesel
3	Building - 1	Security &	High Lift	Diesel
3	Building - 1	Security &	Tool Truck	Diesel
3	Building - 1	Structural S	90 Ton Cra	Diesel
3	Building - 1	Structural S	Concrete P	Diesel
3	Building - 1	Structural S	Concrete T	Diesel
3	Building - 1	Structural S	Fork Truck	Diesel
3	Building - 1	Structural S	Tool Truck	Diesel
3	Building - 1	Structural S	Tractor Tra	Diesel
3	Building - 1	Structural S	Trowel Ma	Diesel
3	Building - 1	Structural S	Truck Towe	Diesel
3	Cargo Apro	Clearing an	Chain Saw	Diesel
3	Cargo Apro	Clearing an	Chipper/St	Diesel
3	Cargo Apro	Clearing an	Pickup Truc	Diesel
3	Cargo Apro	Concrete P	Air Compre	Diesel
3	Cargo Apro	Concrete P	Concrete S	Diesel
3	Cargo Apro	Concrete P	Concrete T	Diesel
3	Cargo Apro	Concrete P	Other Gene	Diesel
3	Cargo Apro	Concrete P	Pickup Truc	Diesel
3	Cargo Apro	Concrete P	Rubber Tire	Diesel
3	Cargo Apro	Concrete P	Slip Form P	Diesel
3	Cargo Apro	Concrete P	Surfacing E	Diesel
3	Cargo Apro	Drainage -	Dozer	Diesel
3	Cargo Apro	Drainage -	Dump Truc	Diesel
3	Cargo Apro	Drainage -	Excavator	Diesel
3	Cargo Apro	Drainage -	Loader	Diesel
3	Cargo Apro	Drainage -	Other Gene	Diesel
3	Cargo Apro	Drainage -	Pickup Truc	Diesel
3	Cargo Apro	Drainage -	Roller	Diesel
3	Cargo Apro	Drainage -	Dump Truc	Diesel
3	Cargo Apro	Drainage -	Loader	Diesel
3	Cargo Apro	Drainage -	Other Gene	Diesel
3	Cargo Apro	Drainage -	Pickup Truc	Diesel
3	Cargo Apro	Drainage -	Tractors/Lc	Diesel
3	Cargo Apro	Dust Contr	Water Truc	Diesel
3	Cargo Apro	Excavation	Dozer	Diesel
3	Cargo Apro	Excavation	Dump Truc	Diesel
3	Cargo Apro	Excavation	Pickup Truc	Diesel
3	Cargo Apro	Excavation	Roller	Diesel
3	Cargo Apro	Excavation	Dozer	Diesel
3	Cargo Apro	Excavation	Dump Truc	Diesel
3	Cargo Apro	Excavation	Excavator	Diesel
3	Cargo Apro	Excavation	Pickup Truc	Diesel
3	Cargo Apro	Excavation	Roller	Diesel
3	Cargo Apro	Excavation	Scraper	Diesel
3	Cargo Apro	Excavation	Dozer	Diesel
3	Cargo Apro	Fencing	Concrete T	Diesel
3	Cargo Apro	Fencing	Dump Truc	Diesel
3	Cargo Apro	Fencing	Other Gene	Diesel
3	Cargo Apro	Fencing	Pickup Truc	Diesel
3	Cargo Apro	Fencing	Skid Steer l	Diesel
3	Cargo Apro	Fencing	Tractors/Lc	Diesel
3	Cargo Apro	Grading	Dozer	Diesel
3	Cargo Apro	Grading	Grader	Diesel
3	Cargo Apro	Grading	Roller	Diesel
3	Cargo Apro	Hydroseed	Hydroseed	Diesel
3	Cargo Apro	Hydroseed	Off-Road T	Diesel
3	Cargo Apro	Lighting	Dump Truc	Diesel
3	Cargo Apro	Lighting	Loader	Diesel
3	Cargo Apro	Lighting	Other Gene	Diesel

*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***

ACEIT Output - Modified Asphalt Application Rates

3	Cargo Apro	Lighting	Pickup Truc	Diesel	
3	Cargo Apro	Lighting	Skid Steer l	Diesel	
3	Cargo Apro	Lighting	Tractors/Lc	Diesel	
3	Cargo Apro	Markings	Flatbed Tru	Diesel	
3	Cargo Apro	Markings	Other Gene	Diesel	
3	Cargo Apro	Markings	Pickup Truc	Diesel	
3	Cargo Apro	Sealing/Fue	Distributing	Diesel	
3	Cargo Apro	Sealing/Fue	Other Gene	Diesel	
3	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	
3	Cargo Apro	Soil Erosior	Other Gene	Diesel	
3	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	
3	Cargo Apro	Soil Erosior	Pumps	Diesel	
3	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	
3	Cargo Apro	Subbase Pl	Dozer	Diesel	
3	Cargo Apro	Subbase Pl	Dump Truc	Diesel	
3	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	
3	Cargo Apro	Subbase Pl	Roller	Diesel	
3	Cargo Apro	Topsoil Pla	Dozer	Diesel	
3	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	
3	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	
3	Drainage S	Drainage -	Dozer	Diesel	
3	Drainage S	Drainage -	Dump Truc	Diesel	
3	Drainage S	Drainage -	Excavator	Diesel	
3	Drainage S	Drainage -	Loader	Diesel	
3	Drainage S	Drainage -	Other Gene	Diesel	
3	Drainage S	Drainage -	Pickup Truc	Diesel	
3	Drainage S	Drainage -	Roller	Diesel	
3	Drainage S	Drainage -	Dozer	Diesel	
3	Drainage S	Drainage -	Dump Truc	Diesel	
3	Drainage S	Drainage -	Excavator	Diesel	
3	Drainage S	Drainage -	Loader	Diesel	
3	Drainage S	Drainage -	Other Gene	Diesel	
3	Drainage S	Drainage -	Pickup Truc	Diesel	
3	Drainage S	Drainage -	Roller	Diesel	
3	Drainage S	Drainage St	Dump Truc	Diesel	
3	Drainage S	Drainage St	Excavator	Diesel	
3	Drainage S	Drainage St	Other Gene	Diesel	
3	Drainage S	Drainage St	Pickup Truc	Diesel	
3	Drainage S	Hydroseed	Hydroseed	Diesel	
3	Drainage S	Hydroseed	Off-Road T	Diesel	
3	Drainage S	Soil Erosior	Other Gene	Diesel	
3	Drainage S	Soil Erosior	Pickup Truc	Diesel	
3	Drainage S	Soil Erosior	Pumps	Diesel	
3	Drainage S	Soil Erosior	Tractors/Lc	Diesel	
3	Drainage S	Topsoil Pla	Dozer	Diesel	
3	Drainage S	Topsoil Pla	Dump Truc	Diesel	
3	Drainage S	Topsoil Pla	Pickup Truc	Diesel	
3	Fuel Tanks	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Fuel Tanks	Clearing an	Chipper/St	Diesel	
3	Fuel Tanks	Clearing an	Pickup Truc	Diesel	
3	Fuel Tanks	Concrete P	Air Compre	Diesel	
3	Fuel Tanks	Concrete P	Concrete S	Diesel	
3	Fuel Tanks	Concrete P	Concrete T	Diesel	
3	Fuel Tanks	Concrete P	Other Gene	Diesel	
3	Fuel Tanks	Concrete P	Pickup Truc	Diesel	
3	Fuel Tanks	Concrete P	Rubber Tire	Diesel	
3	Fuel Tanks	Concrete P	Slip Form P	Diesel	
3	Fuel Tanks	Concrete P	Surfacing E	Diesel	
3	Fuel Tanks	Constructic	Crane	Diesel	
3	Fuel Tanks	Constructic	Other Gene	Diesel	
3	Fuel Tanks	Constructic	Pickup Truc	Diesel	
3	Fuel Tanks	Drainage -	Excavator	Diesel	
3	Fuel Tanks	Drainage	Dozer	Diesel	
3	Fuel Tanks	Drainage	Dump Truc	Diesel	
3	Fuel Tanks	Drainage	Loader	Diesel	
3	Fuel Tanks	Drainage	Other Gene	Diesel	
3	Fuel Tanks	Drainage	Pickup Truc	Diesel	
3	Fuel Tanks	Drainage	Roller	Diesel	
3	Fuel Tanks	Dust Contr	Water Truc	Diesel	
3	Fuel Tanks	Excavation	Dozer	Diesel	
3	Fuel Tanks	Excavation	Dump Truc	Diesel	
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	
3	Fuel Tanks	Excavation	Roller	Diesel	
3	Fuel Tanks	Excavation	Dozer	Diesel	
3	Fuel Tanks	Excavation	Dump Truc	Diesel	
3	Fuel Tanks	Excavation	Excavator	Diesel	
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	
3	Fuel Tanks	Excavation	Roller	Diesel	
3	Fuel Tanks	Excavation	Scraper	Diesel	
3	Fuel Tanks	Excavation	Dozer	Diesel	
3	Fuel Tanks	Fencing	Concrete T	Diesel	
3	Fuel Tanks	Fencing	Dump Truc	Diesel	
3	Fuel Tanks	Fencing	Other Gene	Diesel	
3	Fuel Tanks	Fencing	Pickup Truc	Diesel	
3	Fuel Tanks	Fencing	Skid Steer l	Diesel	
3	Fuel Tanks	Fencing	Tractors/Lc	Diesel	
3	Fuel Tanks	Grading	Dozer	Diesel	
3	Fuel Tanks	Grading	Grader	Diesel	
3	Fuel Tanks	Grading	Roller	Diesel	
3	Fuel Tanks	Hydroseed	Hydroseed	Diesel	
3	Fuel Tanks	Hydroseed	Off-Road T	Diesel	
3	Fuel Tanks	Markings	Flatbed Tru	Diesel	
3	Fuel Tanks	Markings	Other Gene	Diesel	
3	Fuel Tanks	Markings	Pickup Truc	Diesel	
3	Fuel Tanks	Soil Erosior	Other Gene	Diesel	
3	Fuel Tanks	Soil Erosior	Pickup Truc	Diesel	
3	Fuel Tanks	Soil Erosior	Pumps	Diesel	
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel	
3	Fuel Tanks	Street Light	Dump Truc	Diesel	
3	Fuel Tanks	Street Light	Loader	Diesel	
3	Fuel Tanks	Street Light	Other Gene	Diesel	
3	Fuel Tanks	Street Light	Pickup Truc	Diesel	
3	Fuel Tanks	Street Light	Skid Steer l	Diesel	
3	Fuel Tanks	Street Light	Tractors/Lc	Diesel	
3	Fuel Tanks	Subbase Pl	Dozer	Diesel	
3	Fuel Tanks	Subbase Pl	Dump Truc	Diesel	
3	Fuel Tanks	Subbase Pl	Pickup Truc	Diesel	
3	Fuel Tanks	Subbase Pl	Roller	Diesel	
3	Fuel Tanks	Topsoil Pla	Dozer	Diesel	
3	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel	
3	Fuel Tanks	Topsoil Pla	Pickup Truc	Diesel	
3	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	
3	Parking Lot	Asphalt Pla	Dump Truc	Diesel	
3	Parking Lot	Asphalt Pla	Other Gene	Diesel	
3	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	
3	Parking Lot	Asphalt Pla	Roller	Diesel	
3	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	
3	Parking Lot	Asphalt Pla	Surfacing E	Diesel	
3	Parking Lot	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Parking Lot	Clearing an	Chipper/St	Diesel	
3	Parking Lot	Clearing an	Pickup Truc	Diesel	
3	Parking Lot	Curbing	Concrete T	Diesel	
3	Parking Lot	Curbing	Curb/Gutte	Diesel	
3	Parking Lot	Curbing	Other Gene	Diesel	
3	Parking Lot	Curbing	Pickup Truc	Diesel	
3	Parking Lot	Drainage -	Dozer	Diesel	
3	Parking Lot	Drainage -	Dump Truc	Diesel	
3	Parking Lot	Drainage -	Excavator	Diesel	
3	Parking Lot	Drainage -	Loader	Diesel	
3	Parking Lot	Drainage -	Other Gene	Diesel	
3	Parking Lot	Drainage -	Pickup Truc	Diesel	
3	Parking Lot	Drainage -	Roller	Diesel	
3	Parking Lot	Drainage -	Dump Truc	Diesel	
3	Parking Lot	Drainage -	Loader	Diesel	
3	Parking Lot	Drainage -	Other Gene	Diesel	
3	Parking Lot	Drainage -	Pickup Truc	Diesel	
3	Parking Lot	Drainage -	Tractors/Lc	Diesel	
3	Parking Lot	Excavation	Dozer	Diesel	
3	Parking Lot	Excavation	Dump Truc	Diesel	
3	Parking Lot	Excavation	Pickup Truc	Diesel	
3	Parking Lot	Excavation	Roller	Diesel	
3	Parking Lot	Excavation	Dozer	Diesel	
3	Parking Lot	Excavation	Dump Truc	Diesel	
3	Parking Lot	Excavation	Excavator	Diesel	
3	Parking Lot	Excavation	Pickup Truc	Diesel	
3	Parking Lot	Excavation	Roller	Diesel	
3	Parking Lot	Excavation	Scraper	Diesel	
3	Parking Lot	Excavation	Dozer	Diesel	
3	Parking Lot	Fencing	Concrete T	Diesel	
3	Parking Lot	Fencing	Dump Truc	Diesel	
3	Parking Lot	Fencing	Other Gene	Diesel	
3	Parking Lot	Fencing	Pickup Truc	Diesel	
3	Parking Lot	Fencing	Skid Steer l	Diesel	

ACEIT Output - Modified Asphalt Application Rates

3	Parking Lot	Fencing	Tractors/Lc	Diesel	
3	Parking Lot	Grading	Dozer	Diesel	
3	Parking Lot	Grading	Grader	Diesel	
3	Parking Lot	Grading	Roller	Diesel	
3	Parking Lot	Hydroseed	Hydroseed	Diesel	
3	Parking Lot	Hydroseed	Off-Road T	Diesel	
3	Parking Lot	Markings	Flatbed Tru	Diesel	
3	Parking Lot	Markings	Other Gen	Diesel	
3	Parking Lot	Markings	Pickup Truc	Diesel	
3	Parking Lot	Sidewalks	Concrete T	Diesel	
3	Parking Lot	Sidewalks	Dump Truc	Diesel	
3	Parking Lot	Sidewalks	Pickup Truc	Diesel	
3	Parking Lot	Sidewalks	Tractors/Lc	Diesel	
3	Parking Lot	Sidewalks	Vibratory C	Diesel	
3	Parking Lot	Soil Erosior	Other Gen	Diesel	
3	Parking Lot	Soil Erosior	Pickup Truc	Diesel	
3	Parking Lot	Soil Erosior	Pumps	Diesel	
3	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	
3	Parking Lot	Street Light	Dump Truc	Diesel	
3	Parking Lot	Street Light	Loader	Diesel	
3	Parking Lot	Street Light	Other Gen	Diesel	
3	Parking Lot	Street Light	Pickup Truc	Diesel	
3	Parking Lot	Street Light	Skid Steer l	Diesel	
3	Parking Lot	Street Light	Tractors/Lc	Diesel	
3	Parking Lot	Subbase Pl	Dozer	Diesel	
3	Parking Lot	Subbase Pl	Dump Truc	Diesel	
3	Parking Lot	Subbase Pl	Pickup Truc	Diesel	
3	Parking Lot	Subbase Pl	Roller	Diesel	
3	Parking Lot	Topsoil Pla	Dozer	Diesel	
3	Parking Lot	Topsoil Pla	Dump Truc	Diesel	
3	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	
3	Parking Lot	Tree Planti	Flatbed Tru	Diesel	
3	Parking Lot	Tree Planti	Other Gen	Diesel	
3	Parking Lot	Tree Planti	Pickup Truc	Diesel	
3	Parking Lot	Tree Planti	Tractors/Lc	Diesel	
3	Taxiways	Asphalt Pla	Asphalt Pa	Diesel	
3	Taxiways	Asphalt Pla	Dump Truc	Diesel	
3	Taxiways	Asphalt Pla	Other Gen	Diesel	
3	Taxiways	Asphalt Pla	Pickup Truc	Diesel	
3	Taxiways	Asphalt Pla	Roller	Diesel	
3	Taxiways	Asphalt Pla	Skid Steer l	Diesel	
3	Taxiways	Asphalt Pla	Surfacing E	Diesel	
3	Taxiways	Clearing an	Chain Saw	Diesel	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Taxiways	Clearing an	Chipper/St	Diesel	
3	Taxiways	Clearing an	Pickup Truc	Diesel	
3	Taxiways	Drainage -	Dozer	Diesel	
3	Taxiways	Drainage -	Dump Truc	Diesel	
3	Taxiways	Drainage -	Excavator	Diesel	
3	Taxiways	Drainage -	Loader	Diesel	
3	Taxiways	Drainage -	Other Gen	Diesel	
3	Taxiways	Drainage -	Pickup Truc	Diesel	
3	Taxiways	Drainage -	Tractors/Lc	Diesel	
3	Taxiways	Dust Contr	Water Truc	Diesel	
3	Taxiways	Excavation	Dozer	Diesel	
3	Taxiways	Excavation	Dump Truc	Diesel	
3	Taxiways	Excavation	Pickup Truc	Diesel	
3	Taxiways	Excavation	Roller	Diesel	
3	Taxiways	Excavation	Dozer	Diesel	
3	Taxiways	Excavation	Dump Truc	Diesel	
3	Taxiways	Excavation	Excavator	Diesel	
3	Taxiways	Excavation	Pickup Truc	Diesel	
3	Taxiways	Excavation	Roller	Diesel	
3	Taxiways	Excavation	Scraper	Diesel	
3	Taxiways	Excavation	Dozer	Diesel	
3	Taxiways	Fencing	Concrete T	Diesel	
3	Taxiways	Fencing	Dump Truc	Diesel	
3	Taxiways	Fencing	Other Gen	Diesel	
3	Taxiways	Fencing	Pickup Truc	Diesel	
3	Taxiways	Fencing	Skid Steer l	Diesel	
3	Taxiways	Fencing	Tractors/Lc	Diesel	
3	Taxiways	Grading	Dozer	Diesel	
3	Taxiways	Grading	Grader	Diesel	
3	Taxiways	Grading	Roller	Diesel	
3	Taxiways	Hydroseed	Hydroseed	Diesel	
3	Taxiways	Hydroseed	Off-Road T	Diesel	
3	Taxiways	Lighting	Dump Truc	Diesel	
3	Taxiways	Lighting	Loader	Diesel	
3	Taxiways	Lighting	Other Gen	Diesel	
3	Taxiways	Lighting	Pickup Truc	Diesel	
3	Taxiways	Lighting	Skid Steer l	Diesel	
3	Taxiways	Lighting	Tractors/Lc	Diesel	
3	Taxiways	Markings	Flatbed Tru	Diesel	
3	Taxiways	Markings	Other Gen	Diesel	
3	Taxiways	Markings	Pickup Truc	Diesel	
3	Taxiways	Soil Erosior	Other Gen	Diesel	
3	Taxiways	Soil Erosior	Pickup Truc	Diesel	
3	Taxiways	Soil Erosior	Pumps	Diesel	
3	Taxiways	Soil Erosior	Tractors/Lc	Diesel	
3	Taxiways	Subbase Pl	Dozer	Diesel	
3	Taxiways	Subbase Pl	Dump Truc	Diesel	
3	Taxiways	Subbase Pl	Pickup Truc	Diesel	
3	Taxiways	Subbase Pl	Roller	Diesel	
3	Taxiways	Topsoil Pla	Dozer	Diesel	
3	Taxiways	Topsoil Pla	Dump Truc	Diesel	
3	Taxiways	Topsoil Pla	Pickup Truc	Diesel	

Overall Size

Scenario ID	Project	Project Size	User Input	Unit
1	Cargo Apro	What is the	2.67	$ Million(s)
1	Cargo Apro	What is the	428	Feet
1	Cargo Apro	What is the	250	Feet
1	Parking Lot	What is the	0.4	$ Million(s)
1	Parking Lot	What is the	970	Feet
1	Parking Lot	What is the	150	Feet
1	Rehabilitat	What is the	1.5	$ Million(s)
1	Rehabilitat	What is the	3675	Feet
1	Rehabilitat	What is the	250	Feet
2	Building - 1	What is the	12.5	$ Million(s)
2	Cargo Apro	What is the	4	$ Million(s)
2	Cargo Apro	What is the	642	Feet
2	Cargo Apro	What is the	250	Feet
2	Parking Lot	What is the	0.6	$ Million(s)
2	Parking Lot	What is the	1455	Feet
2	Parking Lot	What is the	150	Feet
3	Building - 1	What is the	12.5	$ Million(s)
3	Cargo Apro	What is the	5.33	$ Million(s)
3	Cargo Apro	What is the	855	Feet
3	Cargo Apro	What is the	250	Feet
3	Drainage S	What is the	1.5	$ Million(s)
3	Drainage S	What is the	6	Feet
3	Drainage S	What is the	600	Feet
3	Drainage S	What is the	20	Feet
3	Fuel Tanks	What is the	2	$ Million(s)
3	Fuel Tanks	What is the	4	Feet
3	Fuel Tanks	What is the	415	Feet
3	Fuel Tanks	What is the	100	Feet
3	Fuel Tanks	What is the	5	---
3	Parking Lot	What is the	1	$ Million(s)
3	Parking Lot	What is the	2425	Feet
3	Parking Lot	What is the	150	Feet
3	Taxiways	What is the	2	$ Million(s)
3	Taxiways	What is the	1205	Feet
3	Taxiways	What is the	100	Feet

Size Detail (Estimated based on engineering experience)

ScenarioID	Project	Constructic	Default Act	Unit	User Activity Size
1	Cargo Apro	Clearing an	2.6	Acres	
1	Cargo Apro	Concrete P	4948.8	Cubic Yards	
1	Cargo Apro	Drainage -	438	Linear Feet	
1	Cargo Apro	Drainage -	876	Linear Feet	
1	Cargo Apro	Dust Contr	60	Days	
1	Cargo Apro	Excavation	4948.8	Cubic Yards	
1	Cargo Apro	Excavation	4948.8	Cubic Yards	
1	Cargo Apro	Excavation	11877	Square Yards	

ACEIT Output - Modified Asphalt Application Rates

1	Cargo Apro	Fencing	428	Linear Feet
1	Cargo Apro	Grading	12640.7	Square Yards
1	Cargo Apro	Hydroseedi	113880	Square Feet
1	Cargo Apro	Lighting	1356	Linear Feet
1	Cargo Apro	Markings	107000	Square Feet
1	Cargo Apro	Sealing/Fue	11877	Square Yards
1	Cargo Apro	Soil Erosior	2.6	Acres
1	Cargo Apro	Subbase Pla	11877	Square Yards
1	Cargo Apro	Subbase Pla	3959	Cubic Yards
1	Cargo Apro	Topsoil Plac	2106.8	Cubic Yards
1	Parking Lot	Asphalt Pla	16150.5	Square Yards
1	Parking Lot	Clearing an	3.6	Acres
1	Parking Lot	Curbing	970	Linear Feet
1	Parking Lot	Drainage -	980	Linear Feet
1	Parking Lot	Drainage -	5880	Linear Feet
1	Parking Lot	Excavation	6729.4	Cubic Yards
1	Parking Lot	Excavation	6729.4	Cubic Yards
1	Parking Lot	Excavation	16150.5	Square Yards
1	Parking Lot	Fencing	970	Linear Feet
1	Parking Lot	Grading	17404.8	Square Yards
1	Parking Lot	Hydroseedi	156800	Square Feet
1	Parking Lot	Markings	2240	Square Feet
1	Parking Lot	Sidewalks	2910	Square Feet
1	Parking Lot	Soil Erosior	3.6	Acres
1	Parking Lot	Street Light	3.6	Lights
1	Parking Lot	Subbase Pla	16150.5	Square Yards
1	Parking Lot	Subbase Pla	5383.5	Cubic Yards
1	Parking Lot	Topsoil Plac	2900.8	Cubic Yards
1	Parking Lot	Tree Plantii	0	Trees
1	Rehabilitat	Asphalt Pla	101981.3	Square Yards
1	Rehabilitat	Cold Millin	101981.3	Square Yards
1	Rehabilitat	Dust Contr	60	Days
1	Rehabilitat	Excavation	8498.4	Cubic Yards
1	Rehabilitat	Excavation	20396.3	Square Yards
1	Rehabilitat	Grading	21269.8	Square Yards
1	Rehabilitat	Hydroseedi	21269.8	Square Feet
1	Rehabilitat	Lighting	7850	Linear Feet
1	Rehabilitat	Markings	918750	Square Feet
1	Rehabilitat	Sealing Rar	3675	Linear Feet
1	Rehabilitat	Soil Erosior	4.4	Acres
1	Rehabilitat	Subbase Pla	101981.3	Square Yards
1	Rehabilitat	Subbase Pla	33993.8	Cubic Yards
1	Rehabilitat	Topsoil Plac	3545	Cubic Yards
2	Cargo Apro	Clearing an	3.9	Acres
2	Cargo Apro	Concrete P	7423.1	Cubic Yards
2	Cargo Apro	Drainage -	652	Linear Feet
2	Cargo Apro	Drainage -	1304	Linear Feet
2	Cargo Apro	Dust Contr	90	Days
2	Cargo Apro	Excavation	7423.1	Cubic Yards
2	Cargo Apro	Excavation	17815.5	Square Yards
2	Cargo Apro	Fencing	642	Linear Feet
2	Cargo Apro	Grading	18816.7	Square Yards
2	Cargo Apro	Hydroseedi	169520	Square Feet
2	Cargo Apro	Lighting	1784	Linear Feet
2	Cargo Apro	Markings	160500	Square Feet
2	Cargo Apro	Sealing/Fue	17815.5	Square Yards
2	Cargo Apro	Soil Erosior	3.9	Acres
2	Cargo Apro	Subbase Pla	17815.5	Square Yards
2	Cargo Apro	Subbase Pla	5938.5	Cubic Yards
2	Cargo Apro	Topsoil Plac	3136.1	Cubic Yards
2	Parking Lot	Asphalt Pla	24225.8	Square Yards
2	Parking Lot	Clearing an	5.4	Acres
2	Parking Lot	Curbing	1455	Linear Feet
2	Parking Lot	Drainage -	1465	Linear Feet
2	Parking Lot	Drainage -	8790	Linear Feet
2	Parking Lot	Excavation	10094.1	Cubic Yards
2	Parking Lot	Excavation	10094.1	Cubic Yards
2	Parking Lot	Excavation	24225.8	Square Yards
2	Parking Lot	Fencing	1455	Linear Feet
2	Parking Lot	Grading	26018.4	Square Yards
2	Parking Lot	Hydroseedi	234400	Square Feet
2	Parking Lot	Markings	3210	Square Feet
2	Parking Lot	Sidewalks	4365	Square Feet
2	Parking Lot	Soil Erosior	5.4	Acres
2	Parking Lot	Street Light	5.5	Lights
2	Parking Lot	Subbase Pla	24225.8	Square Yards
2	Parking Lot	Subbase Pla	8075.3	Cubic Yards
2	Parking Lot	Topsoil Plac	4336.4	Cubic Yards
2	Parking Lot	Tree Plantii	0	Trees
3	Cargo Apro	Clearing an	5.2	Acres
3	Cargo Apro	Concrete P	9885.9	Cubic Yards
3	Cargo Apro	Drainage -	865	Linear Feet
3	Cargo Apro	Drainage -	1730	Linear Feet
3	Cargo Apro	Dust Contr	180	Days
3	Cargo Apro	Excavation	9885.9	Cubic Yards
3	Cargo Apro	Excavation	9885.9	Cubic Yards
3	Cargo Apro	Excavation	23726.3	Square Yards
3	Cargo Apro	Fencing	855	Linear Feet
3	Cargo Apro	Grading	24963.9	Square Yards
3	Cargo Apro	Hydroseedi	224900	Square Feet
3	Cargo Apro	Lighting	2210	Linear Feet
3	Cargo Apro	Markings	213750	Square Feet
3	Cargo Apro	Sealing/Fue	23726.3	Square Yards
3	Cargo Apro	Soil Erosior	5.2	Acres
3	Cargo Apro	Subbase Pla	23726.3	Square Yards
3	Cargo Apro	Subbase Pla	7908.8	Cubic Yards
3	Cargo Apro	Topsoil Plac	4160.7	Cubic Yards
3	Drainage S	Drainage -	600	Linear Feet
3	Drainage S	Drainage -	600	Linear Feet
3	Drainage S	Drainage St	1.2	Units
3	Drainage S	Hydroseedi	12200	Square Feet
3	Drainage S	Soil Erosior	0.3	Acres
3	Drainage S	Topsoil Plac	225.7	Cubic Yards
3	Fuel Tanks	Clearing an	1.1	Acres
3	Fuel Tanks	Concrete P	1919.4	Cubic Yards
3	Fuel Tanks	Constructic	5	Tank
3	Fuel Tanks	Drainage -	425	Linear Feet
3	Fuel Tanks	Drainage	425	Linear Feet
3	Fuel Tanks	Dust Contr	180	Days
3	Fuel Tanks	Excavation	6142	Cubic Yards
3	Fuel Tanks	Excavation	6142	Cubic Yards
3	Fuel Tanks	Excavation	4606.5	Square Yards
3	Fuel Tanks	Fencing	415	Linear Feet
3	Fuel Tanks	Grading	5189.3	Square Yards
3	Fuel Tanks	Hydroseedi	46750	Square Feet
3	Fuel Tanks	Markings	41500	Square Feet
3	Fuel Tanks	Soil Erosior	1.1	Acres
3	Fuel Tanks	Street Light	1	Lights
3	Fuel Tanks	Subbase Pla	4606.5	Square Yards
3	Fuel Tanks	Subbase Pla	1535.5	Cubic Yards
3	Fuel Tanks	Topsoil Plac	1729.8	Cubic Yards
3	Parking Lot	Asphalt Pla	40376.3	Square Yards
3	Parking Lot	Clearing an	9	Acres
3	Parking Lot	Curbing	2425	Linear Feet
3	Parking Lot	Drainage -	2435	Linear Feet
3	Parking Lot	Drainage -	14610	Linear Feet
3	Parking Lot	Excavation	16823.4	Cubic Yards
3	Parking Lot	Excavation	16823.4	Cubic Yards
3	Parking Lot	Excavation	40376.3	Square Yards
3	Parking Lot	Fencing	2425	Linear Feet
3	Parking Lot	Grading	43245.6	Square Yards
3	Parking Lot	Hydroseedi	389600	Square Feet
3	Parking Lot	Markings	5150	Square Feet
3	Parking Lot	Sidewalks	7275	Square Feet
3	Parking Lot	Soil Erosior	9	Acres
3	Parking Lot	Street Light	9.1	Lights
3	Parking Lot	Subbase Pla	40376.3	Square Yards
3	Parking Lot	Subbase Pla	13458.8	Cubic Yards
3	Parking Lot	Topsoil Plac	7207.6	Cubic Yards
3	Parking Lot	Tree Plantii	5	Trees
3	Taxiways	Asphalt Pla	13375.5	Square Yards
3	Taxiways	Clearing an	3.1	Acres
3	Taxiways	Drainage -	1215	Linear Feet
3	Taxiways	Drainage -	2430	Linear Feet
3	Taxiways	Dust Contr	180	Days
3	Taxiways	Excavation	5573.1	Cubic Yards
3	Taxiways	Excavation	5573.1	Cubic Yards
3	Taxiways	Excavation	13375.5	Square Yards
3	Taxiways	Fencing	1205	Linear Feet
3	Taxiways	Grading	14835.2	Square Yards
3	Taxiways	Hydroseedi	133650	Square Feet
3	Taxiways	Lighting	2610	Linear Feet

ACEIT Output - Modified Asphalt Application Rates

3	Taxiways	Markings	120500	Square Feet
3	Taxiways	Soil Erosior	3.1	Acres
3	Taxiways	Subbase Pl	13375.5	Square Yards
3	Taxiways	Subbase Pl	4458.5	Cubic Yards
3	Taxiways	Topsoil Pla	2472.5	Cubic Yards

Activity: Non-Road (Estimated based on engineering experience)

Scenario ID	Project	Constructic	Equipment	Fuel Type	Activity Siz	Activity Ra	Default Act	Activity Un	User Activity Data	
1	Cargo Apro	Clearing an	Chain Saw	Diesel	2.60 Acre	12 Hours p	31.2	hours		*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Cargo Apro	Clearing an	Chipper/St	Diesel	2.60 Acre	12 Hours p	31.2	hours		
1	Cargo Apro	Clearing an	Pickup Truc	Diesel	2.60 Acre	16 Hours p	41.6	hours		
1	Cargo Apro	Concrete P	Air Compre	Diesel	4948.80 CY	8 Hours pe	39.59	hours		
1	Cargo Apro	Concrete P	Concrete S	Diesel	4948.80 CY	8 Hours pe	39.59	hours		
1	Cargo Apro	Concrete P	Concrete T	Diesel	4948.80 CY	8 Hours pe	164.96	hours		
1	Cargo Apro	Concrete P	Other Gene	Diesel	4948.80 CY	16 Hours p	79.18	hours		
1	Cargo Apro	Concrete P	Pickup Truc	Diesel	4948.80 CY	24 Hours p	118.77	hours		
1	Cargo Apro	Concrete P	Rubber Tire	Diesel	4948.80 CY	8 Hours pe	39.59	hours		
1	Cargo Apro	Concrete P	Slip Form P	Diesel	4948.80 CY	8 Hours pe	39.59	hours		
1	Cargo Apro	Concrete P	Surfacing E	Diesel	4948.80 CY	8 Hours pe	39.59	hours		
1	Cargo Apro	Drainage -	Dozer	Diesel	438.00 LF	8 Hours pe	14.02	hours		
1	Cargo Apro	Drainage -	Dump Truc	Diesel	438.00 LF	8 Hours pe	14.02	hours		
1	Cargo Apro	Drainage -	Excavator	Diesel	438.00 LF	8 Hours pe	14.02	hours		
1	Cargo Apro	Drainage -	Loader	Diesel	438.00 LF	8 Hours pe	14.02	hours		
1	Cargo Apro	Drainage -	Other Gene	Diesel	438.00 LF	8 Hours pe	14.02	hours		
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	438.00 LF	8 Hours pe	14.02	hours		
1	Cargo Apro	Drainage -	Roller	Diesel	438.00 LF	8 Hours pe	14.02	hours		
1	Cargo Apro	Drainage -	Dump Truc	Diesel	876.00 LF	8 Hours pe	7.79	hours		
1	Cargo Apro	Drainage -	Loader	Diesel	876.00 LF	8 Hours pe	7.79	hours		
1	Cargo Apro	Drainage -	Other Gene	Diesel	876.00 LF	8 Hours pe	7.79	hours		
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	876.00 LF	8 Hours pe	7.79	hours		
1	Cargo Apro	Drainage -	Tractors/Lc	Diesel	876.00 LF	8 Hours pe	7.79	hours		
1	Cargo Apro	Dust Contr	Water Truc	Diesel	60.00 Day	8 Hours pe	480	hours		
1	Cargo Apro	Excavation	Dozer	Diesel	4948.80 CY	8 Hours pe	65.98	hours		
1	Cargo Apro	Excavation	Dump Truc	Diesel	4948.80 CY	8 Hours pe	65.98	hours		
1	Cargo Apro	Excavation	Pickup Truc	Diesel	4948.80 CY	8 Hours pe	65.98	hours		
1	Cargo Apro	Excavation	Roller	Diesel	4948.80 CY	8 Hours pe	30.45	hours		
1	Cargo Apro	Excavation	Dozer	Diesel	4948.80 CY	8 Hours pe	49.49	hours		
1	Cargo Apro	Excavation	Dump Truc	Diesel	4948.80 CY	8 Hours pe	131.97	hours		
1	Cargo Apro	Excavation	Excavator	Diesel	4948.80 CY	8 Hours pe	39.59	hours		
1	Cargo Apro	Excavation	Pickup Truc	Diesel	4948.80 CY	8 Hours pe	39.59	hours		
1	Cargo Apro	Excavation	Roller	Diesel	4948.80 CY	8 Hours pe	39.59	hours		
1	Cargo Apro	Excavation	Scraper	Diesel	4948.80 CY	8 Hours pe	49.49	hours		
1	Cargo Apro	Excavation	Dozer	Diesel	11877.00 S	8 Hours pe	18.63	hours		
1	Cargo Apro	Fencing	Concrete T	Diesel	428.00 LF	2 Hours pe	4.76	hours		
1	Cargo Apro	Fencing	Dump Truc	Diesel	428.00 LF	8 Hours pe	19.02	hours		
1	Cargo Apro	Fencing	Other Gene	Diesel	428.00 LF	8 Hours pe	19.02	hours		
1	Cargo Apro	Fencing	Pickup Truc	Diesel	428.00 LF	8 Hours pe	19.02	hours		
1	Cargo Apro	Fencing	Skid Steer l	Diesel	428.00 LF	8 Hours pe	19.02	hours		
1	Cargo Apro	Fencing	Tractors/Lc	Diesel	428.00 LF	8 Hours pe	19.02	hours		
1	Cargo Apro	Grading	Dozer	Diesel	12640.70 S	8 Hours pe	12.64	hours		
1	Cargo Apro	Grading	Grader	Diesel	12640.70 S	8 Hours pe	12.64	hours		
1	Cargo Apro	Grading	Roller	Diesel	12640.70 S	8 Hours pe	12.64	hours		
1	Cargo Apro	Hydroseed	Hydroseed	Diesel	113880.00	8 Hours pe	11.39	hours		
1	Cargo Apro	Hydroseed	Off-Road T	Diesel	113880.00	8 Hours pe	11.39	hours		
1	Cargo Apro	Lighting	Dump Truc	Diesel	1356.00 LF	8 Hours pe	9.04	hours		
1	Cargo Apro	Lighting	Loader	Diesel	1356.00 LF	8 Hours pe	9.04	hours		
1	Cargo Apro	Lighting	Other Gene	Diesel	1356.00 LF	8 Hours pe	9.04	hours		
1	Cargo Apro	Lighting	Pickup Truc	Diesel	1356.00 LF	8 Hours pe	9.04	hours		
1	Cargo Apro	Lighting	Skid Steer l	Diesel	1356.00 LF	8 Hours pe	9.04	hours		
1	Cargo Apro	Lighting	Tractors/Lc	Diesel	1356.00 LF	8 Hours pe	9.04	hours		
1	Cargo Apro	Markings	Flatbed Tru	Diesel	107000.00	8 Hours pe	244.57	hours		
1	Cargo Apro	Markings	Other Gene	Diesel	107000.00	8 Hours pe	244.57	hours		
1	Cargo Apro	Markings	Pickup Truc	Diesel	107000.00	8 Hours pe	244.57	hours		
1	Cargo Apro	Sealing/Fue	Distributing	Diesel	11877.00 S	8 Hours pe	31.67	hours		
1	Cargo Apro	Sealing/Fue	Other Gene	Diesel	11877.00 S	8 Hours pe	31.67	hours		
1	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	11877.00 S	8 Hours pe	31.67	hours		
1	Cargo Apro	Soil Erosior	Other Gene	Diesel	2.60 Acre	4 Hours pe	10.4	hours		
1	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	2.60 Acre	8 Hours pe	20.8	hours		
1	Cargo Apro	Soil Erosior	Pumps	Diesel	2.60 Acre	4 Hours pe	10.4	hours		
1	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	2.60 Acre	4 Hours pe	10.4	hours		
1	Cargo Apro	Subbase Pl	Dozer	Diesel	11877.00 S	8 Hours pe	25	hours		
1	Cargo Apro	Subbase Pl	Dump Truc	Diesel	3959.00 CY	8 Hours pe	175.96	hours		
1	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	11877.00 S	8 Hours pe	25	hours		
1	Cargo Apro	Subbase Pl	Roller	Diesel	3959.00 CY	8 Hours pe	24.36	hours		
1	Cargo Apro	Topsoil Pla	Dozer	Diesel	2106.80 CY	8 Hours pe	28.09	hours		
1	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	2106.80 CY	8 Hours pe	28.09	hours		
1	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	2106.80 CY	8 Hours pe	28.09	hours		
1	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	16150.50 S	8 Hours pe	20.19	hours		
1	Parking Lot	Asphalt Pla	Dump Truc	Diesel	16150.50 S	8 Hours pe	72.71	hours		
1	Parking Lot	Asphalt Pla	Other Gene	Diesel	16150.50 S	16 Hours p	40.38	hours		
1	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	16150.50 S	8 Hours pe	20.19	hours		
1	Parking Lot	Asphalt Pla	Roller	Diesel	16150.50 S	8 Hours pe	20.19	hours		
1	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	16150.50 S	8 Hours pe	20.19	hours		
1	Parking Lot	Asphalt Pla	Surfacing E	Diesel	16150.50 S	8 Hours pe	25.84	hours		
1	Parking Lot	Clearing an	Chain Saw	Diesel	3.60 Acre	12 Hours p	43.2	hours		*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Parking Lot	Clearing an	Chipper/St	Diesel	3.60 Acre	12 Hours p	43.2	hours		
1	Parking Lot	Clearing an	Pickup Truc	Diesel	3.60 Acre	16 Hours p	57.6	hours		
1	Parking Lot	Curbing	Concrete T	Diesel	970.00 LF	8 Hours pe	19.4	hours		
1	Parking Lot	Curbing	Curb/Gutte	Diesel	970.00 LF	8 Hours pe	19.4	hours		
1	Parking Lot	Curbing	Other Gene	Diesel	970.00 LF	8 Hours pe	19.4	hours		
1	Parking Lot	Curbing	Pickup Truc	Diesel	970.00 LF	8 Hours pe	19.4	hours		
1	Parking Lot	Drainage -	Dozer	Diesel	980.00 LF	8 Hours pe	31.36	hours		
1	Parking Lot	Drainage -	Dump Truc	Diesel	980.00 LF	8 Hours pe	31.36	hours		
1	Parking Lot	Drainage -	Excavator	Diesel	980.00 LF	8 Hours pe	31.36	hours		
1	Parking Lot	Drainage -	Loader	Diesel	980.00 LF	8 Hours pe	31.36	hours		
1	Parking Lot	Drainage -	Other Gene	Diesel	980.00 LF	8 Hours pe	31.36	hours		
1	Parking Lot	Drainage -	Pickup Truc	Diesel	980.00 LF	8 Hours pe	31.36	hours		
1	Parking Lot	Drainage -	Roller	Diesel	980.00 LF	8 Hours pe	31.36	hours		
1	Parking Lot	Drainage -	Dump Truc	Diesel	5880.00 LF	8 Hours pe	52.27	hours		
1	Parking Lot	Drainage -	Loader	Diesel	5880.00 LF	8 Hours pe	52.27	hours		
1	Parking Lot	Drainage -	Other Gene	Diesel	5880.00 LF	8 Hours pe	52.27	hours		
1	Parking Lot	Drainage -	Pickup Truc	Diesel	5880.00 LF	8 Hours pe	52.27	hours		
1	Parking Lot	Drainage -	Tractors/Lc	Diesel	5880.00 LF	8 Hours pe	52.27	hours		
1	Parking Lot	Excavation	Dozer	Diesel	6729.40 CY	8 Hours pe	89.73	hours		
1	Parking Lot	Excavation	Dump Truc	Diesel	6729.40 CY	8 Hours pe	89.73	hours		
1	Parking Lot	Excavation	Pickup Truc	Diesel	6729.40 CY	8 Hours pe	89.73	hours		
1	Parking Lot	Excavation	Roller	Diesel	6729.40 CY	8 Hours pe	41.41	hours		
1	Parking Lot	Excavation	Dozer	Diesel	6729.40 CY	8 Hours pe	67.29	hours		
1	Parking Lot	Excavation	Dump Truc	Diesel	6729.40 CY	8 Hours pe	179.45	hours		
1	Parking Lot	Excavation	Excavator	Diesel	6729.40 CY	8 Hours pe	53.84	hours		
1	Parking Lot	Excavation	Pickup Truc	Diesel	6729.40 CY	8 Hours pe	53.84	hours		
1	Parking Lot	Excavation	Roller	Diesel	6729.40 CY	8 Hours pe	53.84	hours		
1	Parking Lot	Excavation	Scraper	Diesel	6729.40 CY	8 Hours pe	67.29	hours		
1	Parking Lot	Excavation	Dozer	Diesel	16150.50 S	8 Hours pe	25.33	hours		
1	Parking Lot	Fencing	Concrete T	Diesel	970.00 LF	2 Hours pe	10.78	hours		
1	Parking Lot	Fencing	Dump Truc	Diesel	970.00 LF	8 Hours pe	43.11	hours		
1	Parking Lot	Fencing	Other Gene	Diesel	970.00 LF	8 Hours pe	43.11	hours		
1	Parking Lot	Fencing	Pickup Truc	Diesel	970.00 LF	8 Hours pe	43.11	hours		
1	Parking Lot	Fencing	Skid Steer l	Diesel	970.00 LF	8 Hours pe	43.11	hours		
1	Parking Lot	Fencing	Tractors/Lc	Diesel	970.00 LF	8 Hours pe	43.11	hours		
1	Parking Lot	Grading	Dozer	Diesel	17404.80 S	8 Hours pe	17.4	hours		
1	Parking Lot	Grading	Grader	Diesel	17404.80 S	8 Hours pe	17.4	hours		
1	Parking Lot	Grading	Roller	Diesel	17404.80 S	8 Hours pe	17.4	hours		
1	Parking Lot	Hydroseed	Hydroseed	Diesel	156800.00	8 Hours pe	15.68	hours		
1	Parking Lot	Hydroseed	Off-Road T	Diesel	156800.00	8 Hours pe	15.68	hours		
1	Parking Lot	Markings	Flatbed Tru	Diesel	2240.00 SF	8 Hours pe	5.12	hours		
1	Parking Lot	Markings	Other Gene	Diesel	2240.00 SF	8 Hours pe	5.12	hours		
1	Parking Lot	Markings	Pickup Truc	Diesel	2240.00 SF	8 Hours pe	5.12	hours		
1	Parking Lot	Sidewalks	Concrete T	Diesel	2910.00 SF	8 Hours pe	38.8	hours		
1	Parking Lot	Sidewalks	Dump Truc	Diesel	2910.00 SF	8 Hours pe	38.8	hours		
1	Parking Lot	Sidewalks	Pickup Truc	Diesel	2910.00 SF	8 Hours pe	38.8	hours		
1	Parking Lot	Sidewalks	Tractors/Lc	Diesel	2910.00 SF	8 Hours pe	38.8	hours		
1	Parking Lot	Sidewalks	Vibratory C	Diesel	2910.00 SF	8 Hours pe	38.8	hours		
1	Parking Lot	Soil Erosior	Other Gene	Diesel	3.60 Acre	4 Hours pe	14.4	hours		
1	Parking Lot	Soil Erosior	Pickup Truc	Diesel	3.60 Acre	8 Hours pe	28.8	hours		
1	Parking Lot	Soil Erosior	Pumps	Diesel	3.60 Acre	4 Hours pe	14.4	hours		
1	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	3.60 Acre	4 Hours pe	14.4	hours		
1	Parking Lot	Street Light	Dump Truc	Diesel	3.60 Lights	8 Hours pe	9.6	hours		
1	Parking Lot	Street Light	Loader	Diesel	3.60 Lights	8 Hours pe	9.6	hours		
1	Parking Lot	Street Light	Other Gene	Diesel	3.60 Lights	8 Hours pe	9.6	hours		
1	Parking Lot	Street Light	Pickup Truc	Diesel	3.60 Lights	8 Hours pe	9.6	hours		
1	Parking Lot	Street Light	Skid Steer l	Diesel	3.60 Lights	8 Hours pe	9.6	hours		
1	Parking Lot	Street Light	Tractors/Lc	Diesel	3.60 Lights	8 Hours pe	9.6	hours		
1	Parking Lot	Subbase Pl	Dozer	Diesel	16150.50 S	8 Hours pe	34	hours		
1	Parking Lot	Subbase Pl	Dump Truc	Diesel	5383.50 CY	8 Hours pe	239.27	hours		
1	Parking Lot	Subbase Pl	Pickup Truc	Diesel	16150.50 S	8 Hours pe	34	hours		
1	Parking Lot	Subbase Pl	Roller	Diesel	5383.50 CY	8 Hours pe	33.13	hours		
1	Parking Lot	Topsoil Pla	Dozer	Diesel	2900.80 CY	8 Hours pe	38.68	hours		
1	Parking Lot	Topsoil Pla	Dump Truc	Diesel	2900.80 CY	8 Hours pe	38.68	hours		
1	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	2900.80 CY	8 Hours pe	38.68	hours		
1	Parking Lot	Tree Planti	Flatbed Tru	Diesel	0.00 Trees	8 Hours pe	0	hours		

ACEIT Output - Modified Asphalt Application Rates

1	Parking Lot	Tree Planti	Other Gene	Diesel	0.00	Trees	8 Hours pe	0	hours
1	Parking Lot	Tree Planti	Pickup Truc	Diesel	0.00	Trees	8 Hours pe	0	hours
1	Parking Lot	Tree Planti	Tractors/Lo	Diesel	0.00	Trees	8 Hours pe	0	hours
1	Rehabilitat	Asphalt Pla	Asphalt Pa	Diesel	101981.30		8 Hours pe	127.48	hours
1	Rehabilitat	Asphalt Pla	Dump Truc	Diesel	101981.30		8 Hours pe	459.12	hours
1	Rehabilitat	Asphalt Pla	Other Gene	Diesel	101981.30		16 Hours p	254.95	hours
1	Rehabilitat	Asphalt Pla	Pickup Truc	Diesel	101981.30		8 Hours pe	127.48	hours
1	Rehabilitat	Asphalt Pla	Roller	Diesel	101981.30		8 Hours pe	127.48	hours
1	Rehabilitat	Asphalt Pla	Skid Steer l	Diesel	101981.30		8 Hours pe	127.48	hours
1	Rehabilitat	Asphalt Pla	Surfacing E	Diesel	101981.30		8 Hours pe	163.17	hours
1	Rehabilitat	Cold Millin	Cold Plane	Diesel	101981.30		8 Hours pe	203.96	hours
1	Rehabilitat	Cold Millin	Dump Truc	Diesel	101981.30		8 Hours pe	203.96	hours
1	Rehabilitat	Cold Millin	Pickup Truc	Diesel	101981.30		8 Hours pe	203.96	hours
1	Rehabilitat	Cold Millin	Sweepers	Diesel	101981.30		8 Hours pe	203.96	hours
1	Rehabilitat	Cold Millin	Water Truc	Diesel	101981.30		8 Hours pe	203.96	hours
1	Rehabilitat	Dust Contr	Water Truc	Diesel	60.00	Day	8 Hours pe	480	hours
1	Rehabilitat	Excavation	Dozer	Diesel	8498.40	CY	8 Hours pe	67.99	hours
1	Rehabilitat	Excavation	Dump Truc	Diesel	8498.40	CY	8 Hours pe	226.62	hours
1	Rehabilitat	Excavation	Excavator	Diesel	8498.40	CY	8 Hours pe	67.99	hours
1	Rehabilitat	Excavation	Pickup Truc	Diesel	8498.40	CY	8 Hours pe	67.99	hours
1	Rehabilitat	Excavation	Roller	Diesel	8498.40	CY	8 Hours pe	67.99	hours
1	Rehabilitat	Excavation	Dozer	Diesel	20396.30	S	8 Hours pe	31.99	hours
1	Rehabilitat	Grading	Dozer	Diesel	21269.80	S	8 Hours pe	21.27	hours
1	Rehabilitat	Grading	Grader	Diesel	21269.80	S	8 Hours pe	21.27	hours
1	Rehabilitat	Grading	Roller	Diesel	21269.80	S	8 Hours pe	21.27	hours
1	Rehabilitat	Hydroseed	Hydroseed	Diesel	21269.80	S	8 Hours pe	2.13	hours
1	Rehabilitat	Hydroseed	Off-Road T	Diesel	21269.80	S	8 Hours pe	2.13	hours
1	Rehabilitat	Lighting	Dump Truc	Diesel	7850.00	LF	8 Hours pe	52.33	hours
1	Rehabilitat	Lighting	Loader	Diesel	7850.00	LF	8 Hours pe	52.33	hours
1	Rehabilitat	Lighting	Other Gene	Diesel	7850.00	LF	8 Hours pe	52.33	hours
1	Rehabilitat	Lighting	Pickup Truc	Diesel	7850.00	LF	8 Hours pe	52.33	hours
1	Rehabilitat	Lighting	Skid Steer l	Diesel	7850.00	LF	8 Hours pe	52.33	hours
1	Rehabilitat	Lighting	Tractors/Lo	Diesel	7850.00	LF	8 Hours pe	52.33	hours
1	Rehabilitat	Markings	Flatbed Tru	Diesel	918750.00		8 Hours pe	2100	hours
1	Rehabilitat	Markings	Other Gene	Diesel	918750.00		8 Hours pe	2100	hours
1	Rehabilitat	Markings	Pickup Truc	Diesel	918750.00		8 Hours pe	2100	hours
1	Rehabilitat	Sealing Rar	Crack Clear	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Sealing Rar	Crack Filler	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Sealing Rar	Flatbed Tru	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Sealing Rar	Other Gene	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Sealing Rar	Pickup Truc	Diesel	3675.00	LF	8 Hours pe	10.5	hours
1	Rehabilitat	Soil Erosior	Other Gene	Diesel	4.40	Acre	4 Hours pe	17.6	hours
1	Rehabilitat	Soil Erosior	Pickup Truc	Diesel	4.40	Acre	8 Hours pe	35.2	hours
1	Rehabilitat	Soil Erosior	Pumps	Diesel	4.40	Acre	4 Hours pe	17.6	hours
1	Rehabilitat	Soil Erosior	Tractors/Lo	Diesel	4.40	Acre	4 Hours pe	17.6	hours
1	Rehabilitat	Subbase Pl	Dozer	Diesel	101981.30		8 Hours pe	214.7	hours
1	Rehabilitat	Subbase Pl	Dump Truc	Diesel	33993.80	C	8 Hours pe	1510.84	hours
1	Rehabilitat	Subbase Pl	Pickup Truc	Diesel	101981.30		8 Hours pe	214.7	hours
1	Rehabilitat	Subbase Pl	Roller	Diesel	33993.80	C	8 Hours pe	209.19	hours
1	Rehabilitat	Topsoil Pla	Dozer	Diesel	3545.00	CY	8 Hours pe	47.27	hours
1	Rehabilitat	Topsoil Pla	Dump Truc	Diesel	3545.00	CY	8 Hours pe	47.27	hours
1	Rehabilitat	Topsoil Pla	Pickup Truc	Diesel	3545.00	CY	8 Hours pe	47.27	hours
2	Building - 1	Concrete F	Backhoe	Diesel	100000.00		0.0048 Hou	480	hours
2	Building - 1	Concrete F	Concrete P	Diesel	100000.00		0.0018 Hou	180	hours
2	Building - 1	Concrete F	Concrete R	Diesel	100000.00		0.0036 Hou	360	hours
2	Building - 1	Concrete F	Excavator	Diesel	100000.00		0.0016 Hou	160	hours
2	Building - 1	Concrete F	Fork Truck	Diesel	100000.00		0.0048 Hou	480	hours
2	Building - 1	Concrete F	Tool Truck	Diesel	100000.00		0.0012 Hou	120	hours
2	Building - 1	Concrete F	Tractor Tra	Diesel	100000.00		0.0024 Hou	240	hours
2	Building - 1	Constructic	Survey Cre	Diesel	100000.00		0.0001 Hou	10	hours
2	Building - 1	Constructic	Tractor Tra	Diesel	100000.00		0.00004 Ho	4	hours
2	Building - 1	Exterior W	Fork Truck	Diesel	100000.00		0.0084 Hou	840	hours
2	Building - 1	Exterior W	Generator	Diesel	100000.00		0.0008 Hou	80	hours
2	Building - 1	Exterior W	Grout Mixe	Diesel	100000.00		0.0042 Hou	420	hours
2	Building - 1	Exterior W	Grout Whe	Diesel	100000.00		0.0016 Hou	160	hours
2	Building - 1	Exterior W	Man Lift	Diesel	100000.00		0.0168 Hou	1680	hours
2	Building - 1	Exterior W	Tool Truck	Diesel	100000.00		0.0042 Hou	420	hours
2	Building - 1	Exterior W	Tractor Tra	Diesel	100000.00		0.0084 Hou	840	hours
2	Building - 1	Exterior W	Truck Towe	Diesel	100000.00		0.0008 Hou	80	hours
2	Building - 1	Interior Bui	Fork Truck	Diesel	100000.00		0.016 Hour	1600	hours
2	Building - 1	Interior Bui	Man Lift	Diesel	100000.00		0.032 Hour	3200	hours
2	Building - 1	Interior Bui	Tool Truck	Diesel	100000.00		0.016 Hour	1600	hours
2	Building - 1	Interior Bui	Tractor Tra	Diesel	100000.00		0.016 Hour	1600	hours
2	Building - 1	Roofing	High Lift	Diesel	100000.00		0.0016 Hou	160	hours
2	Building - 1	Roofing	Man Lift	Diesel	100000.00		0.0004 Hou	40	hours
2	Building - 1	Roofing	Material De	Diesel	100000.00		0.0006 Hou	60	hours
2	Building - 1	Roofing	Tractor Tra	Diesel	100000.00		0.0004 Hou	40	hours
2	Building - 1	Roofing	Truck Towe	Diesel	100000.00		0.0012 Hou	120	hours
2	Building - 1	Security &	High Lift	Diesel	100000.00		0.008 Hour	800	hours
2	Building - 1	Security &	Tool Truck	Diesel	100000.00		0.008 Hour	800	hours
2	Building - 1	Structural S	90 Ton Cra	Diesel	100000.00		0.0024 Hou	240	hours
2	Building - 1	Structural S	Concrete P	Diesel	100000.00		0.0006 Hou	60	hours
2	Building - 1	Structural S	Concrete T	Diesel	100000.00		0.0006 Hou	60	hours
2	Building - 1	Structural S	Fork Truck	Diesel	100000.00		0.0064 Hou	640	hours
2	Building - 1	Structural S	Tool Truck	Diesel	100000.00		0.0016 Hou	160	hours
2	Building - 1	Structural S	Tractor Tra	Diesel	100000.00		0.0036 Hou	360	hours
2	Building - 1	Structural S	Trowel Ma	Diesel	100000.00		0.0004 Hou	40	hours
2	Building - 1	Structural S	Truck Towe	Diesel	100000.00		0.0072 Hou	720	hours
2	Cargo Apro	Clearing an	Chain Saw	Diesel	3.90	Acre	12 Hours p	46.8	hours
2	Cargo Apro	Clearing an	Chipper/St	Diesel	3.90	Acre	12 Hours p	46.8	hours
2	Cargo Apro	Clearing an	Pickup Truc	Diesel	3.90	Acre	16 Hours p	62.4	hours
2	Cargo Apro	Concrete P	Air Compre	Diesel	7423.10	CY	8 Hours pe	59.38	hours
2	Cargo Apro	Concrete P	Concrete S	Diesel	7423.10	CY	8 Hours pe	59.38	hours
2	Cargo Apro	Concrete P	Concrete T	Diesel	7423.10	CY	8 Hours pe	247.44	hours
2	Cargo Apro	Concrete P	Other Gene	Diesel	7423.10	CY	16 Hours p	118.77	hours
2	Cargo Apro	Concrete P	Pickup Truc	Diesel	7423.10	CY	24 Hours p	178.15	hours
2	Cargo Apro	Concrete P	Rubber Tire	Diesel	7423.10	CY	8 Hours pe	59.38	hours
2	Cargo Apro	Concrete P	Slip Form P	Diesel	7423.10	CY	8 Hours pe	59.38	hours
2	Cargo Apro	Concrete P	Surfacing E	Diesel	7423.10	CY	8 Hours pe	59.38	hours
2	Cargo Apro	Drainage -	Dozer	Diesel	652.00	LF	8 Hours pe	20.86	hours
2	Cargo Apro	Drainage -	Dump Truc	Diesel	652.00	LF	8 Hours pe	20.86	hours
2	Cargo Apro	Drainage -	Excavator	Diesel	652.00	LF	8 Hours pe	20.86	hours
2	Cargo Apro	Drainage -	Loader	Diesel	652.00	LF	8 Hours pe	20.86	hours
2	Cargo Apro	Drainage -	Other Gene	Diesel	652.00	LF	8 Hours pe	20.86	hours
2	Cargo Apro	Drainage -	Pickup Truc	Diesel	652.00	LF	8 Hours pe	20.86	hours
2	Cargo Apro	Drainage -	Roller	Diesel	652.00	LF	8 Hours pe	20.86	hours
2	Cargo Apro	Drainage -	Dump Truc	Diesel	1304.00	LF	8 Hours pe	11.59	hours
2	Cargo Apro	Drainage -	Loader	Diesel	1304.00	LF	8 Hours pe	11.59	hours
2	Cargo Apro	Drainage -	Other Gene	Diesel	1304.00	LF	8 Hours pe	11.59	hours
2	Cargo Apro	Drainage -	Pickup Truc	Diesel	1304.00	LF	8 Hours pe	11.59	hours
2	Cargo Apro	Drainage -	Tractors/Lo	Diesel	1304.00	LF	8 Hours pe	11.59	hours
2	Cargo Apro	Dust Contr	Water Truc	Diesel	90.00	Day	8 Hours pe	720	hours
2	Cargo Apro	Excavation	Dozer	Diesel	7423.10	CY	8 Hours pe	98.97	hours
2	Cargo Apro	Excavation	Dump Truc	Diesel	7423.10	CY	8 Hours pe	98.97	hours
2	Cargo Apro	Excavation	Pickup Truc	Diesel	7423.10	CY	8 Hours pe	98.97	hours
2	Cargo Apro	Excavation	Roller	Diesel	7423.10	CY	8 Hours pe	45.68	hours
2	Cargo Apro	Excavation	Dozer	Diesel	7423.10	CY	8 Hours pe	74.23	hours
2	Cargo Apro	Excavation	Dump Truc	Diesel	7423.10	CY	8 Hours pe	197.95	hours
2	Cargo Apro	Excavation	Excavator	Diesel	7423.10	CY	8 Hours pe	59.38	hours
2	Cargo Apro	Excavation	Pickup Truc	Diesel	7423.10	CY	8 Hours pe	59.38	hours
2	Cargo Apro	Excavation	Roller	Diesel	7423.10	CY	8 Hours pe	59.38	hours
2	Cargo Apro	Excavation	Scraper	Diesel	7423.10	CY	8 Hours pe	74.23	hours
2	Cargo Apro	Excavation	Dozer	Diesel	17815.50	S	8 Hours pe	27.95	hours
2	Cargo Apro	Fencing	Concrete T	Diesel	642.00	LF	2 Hours pe	7.13	hours
2	Cargo Apro	Fencing	Dump Truc	Diesel	642.00	LF	8 Hours pe	28.53	hours
2	Cargo Apro	Fencing	Other Gene	Diesel	642.00	LF	8 Hours pe	28.53	hours
2	Cargo Apro	Fencing	Pickup Truc	Diesel	642.00	LF	8 Hours pe	28.53	hours
2	Cargo Apro	Fencing	Skid Steer l	Diesel	642.00	LF	8 Hours pe	28.53	hours
2	Cargo Apro	Fencing	Tractors/Lo	Diesel	642.00	LF	8 Hours pe	28.53	hours
2	Cargo Apro	Grading	Dozer	Diesel	18816.70	S	8 Hours pe	18.82	hours
2	Cargo Apro	Grading	Grader	Diesel	18816.70	S	8 Hours pe	18.82	hours
2	Cargo Apro	Grading	Roller	Diesel	18816.70	S	8 Hours pe	18.82	hours
2	Cargo Apro	Hydroseed	Hydroseed	Diesel	169520.00		8 Hours pe	16.95	hours
2	Cargo Apro	Hydroseed	Off-Road T	Diesel	169520.00		8 Hours pe	16.95	hours
2	Cargo Apro	Lighting	Dump Truc	Diesel	1784.00	LF	8 Hours pe	11.89	hours
2	Cargo Apro	Lighting	Loader	Diesel	1784.00	LF	8 Hours pe	11.89	hours
2	Cargo Apro	Lighting	Other Gene	Diesel	1784.00	LF	8 Hours pe	11.89	hours
2	Cargo Apro	Lighting	Pickup Truc	Diesel	1784.00	LF	8 Hours pe	11.89	hours
2	Cargo Apro	Lighting	Skid Steer l	Diesel	1784.00	LF	8 Hours pe	11.89	hours
2	Cargo Apro	Lighting	Tractors/Lo	Diesel	1784.00	LF	8 Hours pe	11.89	hours
2	Cargo Apro	Markings	Flatbed Tru	Diesel	160500.00		8 Hours pe	366.86	hours
2	Cargo Apro	Markings	Other Gene	Diesel	160500.00		8 Hours pe	366.86	hours
2	Cargo Apro	Markings	Pickup Truc	Diesel	160500.00		8 Hours pe	366.86	hours
2	Cargo Apro	Sealing/Fue	Distributin	Diesel	17815.50	S	8 Hours pe	47.51	hours
2	Cargo Apro	Sealing/Fue	Other Gene	Diesel	17815.50	S	8 Hours pe	47.51	hours
2	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	17815.50	S	8 Hours pe	47.51	hours
2	Cargo Apro	Soil Erosior	Other Gene	Diesel	3.90	Acre	4 Hours pe	15.6	hours
2	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	3.90	Acre	8 Hours pe	31.2	hours
2	Cargo Apro	Soil Erosior	Pumps	Diesel	3.90	Acre	4 Hours pe	15.6	hours
2	Cargo Apro	Soil Erosior	Tractors/Lo	Diesel	3.90	Acre	4 Hours pe	15.6	hours
2	Cargo Apro	Subbase Pl	Dozer	Diesel	17815.50	S	8 Hours pe	37.51	hours
2	Cargo Apro	Subbase Pl	Dump Truc	Diesel	5938.50	CY	8 Hours pe	263.93	hours
2	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	17815.50	S	8 Hours pe	37.51	hours

*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***

ACEIT Output - Modified Asphalt Application Rates

2	Cargo Apro	Subbase Pl	Roller	Diesel	5938.50	CY	8 Hours pe	36.54	hours
2	Cargo Apro	Topsoil Pla	Dozer	Diesel	3136.10	CY	8 Hours pe	41.81	hours
2	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	3136.10	CY	8 Hours pe	41.81	hours
2	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	3136.10	CY	8 Hours pe	41.81	hours
2	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	24225.80	S	8 Hours pe	30.28	hours
2	Parking Lot	Asphalt Pla	Dump Truc	Diesel	24225.80	S	8 Hours pe	109.06	hours
2	Parking Lot	Asphalt Pla	Other Gen	Diesel	24225.80	S	16 Hours p	60.56	hours
2	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	24225.80	S	8 Hours pe	30.28	hours
2	Parking Lot	Asphalt Pla	Roller	Diesel	24225.80	S	8 Hours pe	30.28	hours
2	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	24225.80	S	8 Hours pe	30.28	hours
2	Parking Lot	Asphalt Pla	Surfacing E	Diesel	24225.80	S	8 Hours pe	38.76	hours
2	Parking Lot	Clearing an	Chain Saw	Diesel	5.40	Acre	12 Hours p	64.8	hours
2	Parking Lot	Clearing an	Chipper/St	Diesel	5.40	Acre	12 Hours p	64.8	hours
2	Parking Lot	Clearing an	Pickup Truc	Diesel	5.40	Acre	16 Hours p	86.4	hours
2	Parking Lot	Curbing	Concrete T	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Curbing	Curb/Gutte	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Curbing	Other Gen	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Curbing	Pickup Truc	Diesel	1455.00	LF	8 Hours pe	29.1	hours
2	Parking Lot	Drainage -	Dozer	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Dump Truc	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Excavator	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Loader	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Other Gen	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Pickup Truc	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Roller	Diesel	1465.00	LF	8 Hours pe	46.88	hours
2	Parking Lot	Drainage -	Dump Truc	Diesel	8790.00	LF	8 Hours pe	78.13	hours
2	Parking Lot	Drainage -	Loader	Diesel	8790.00	LF	8 Hours pe	78.13	hours
2	Parking Lot	Drainage -	Other Gen	Diesel	8790.00	LF	8 Hours pe	78.13	hours
2	Parking Lot	Drainage -	Pickup Truc	Diesel	8790.00	LF	8 Hours pe	78.13	hours
2	Parking Lot	Drainage -	Tractors/Lc	Diesel	8790.00	LF	8 Hours pe	78.13	hours
2	Parking Lot	Excavation	Dozer	Diesel	10094.10	C	8 Hours pe	134.59	hours
2	Parking Lot	Excavation	Dump Truc	Diesel	10094.10	C	8 Hours pe	134.59	hours
2	Parking Lot	Excavation	Pickup Truc	Diesel	10094.10	C	8 Hours pe	134.59	hours
2	Parking Lot	Excavation	Roller	Diesel	10094.10	C	8 Hours pe	62.12	hours
2	Parking Lot	Excavation	Dozer	Diesel	10094.10	C	8 Hours pe	100.94	hours
2	Parking Lot	Excavation	Dump Truc	Diesel	10094.10	C	8 Hours pe	269.18	hours
2	Parking Lot	Excavation	Excavator	Diesel	10094.10	C	8 Hours pe	80.75	hours
2	Parking Lot	Excavation	Pickup Truc	Diesel	10094.10	C	8 Hours pe	80.75	hours
2	Parking Lot	Excavation	Roller	Diesel	10094.10	C	8 Hours pe	80.75	hours
2	Parking Lot	Excavation	Scraper	Diesel	10094.10	C	8 Hours pe	100.94	hours
2	Parking Lot	Excavation	Dozer	Diesel	24225.80	S	8 Hours pe	38	hours
2	Parking Lot	Fencing	Concrete T	Diesel	1455.00	LF	2 Hours pe	16.17	hours
2	Parking Lot	Fencing	Dump Truc	Diesel	1455.00	LF	8 Hours pe	64.67	hours
2	Parking Lot	Fencing	Other Gen	Diesel	1455.00	LF	8 Hours pe	64.67	hours
2	Parking Lot	Fencing	Pickup Truc	Diesel	1455.00	LF	8 Hours pe	64.67	hours
2	Parking Lot	Fencing	Skid Steer l	Diesel	1455.00	LF	8 Hours pe	64.67	hours
2	Parking Lot	Fencing	Tractors/Lc	Diesel	1455.00	LF	8 Hours pe	64.67	hours
2	Parking Lot	Grading	Dozer	Diesel	26018.40	S	8 Hours pe	26.02	hours
2	Parking Lot	Grading	Grader	Diesel	26018.40	S	8 Hours pe	26.02	hours
2	Parking Lot	Grading	Roller	Diesel	26018.40	S	8 Hours pe	26.02	hours
2	Parking Lot	Hydroseed	Hydroseed	Diesel	234400.00		8 Hours pe	23.44	hours
2	Parking Lot	Hydroseed	Off-Road T	Diesel	234400.00		8 Hours pe	23.44	hours
2	Parking Lot	Markings	Flatbed Tru	Diesel	3210.00	SF	8 Hours pe	7.34	hours
2	Parking Lot	Markings	Other Gen	Diesel	3210.00	SF	8 Hours pe	7.34	hours
2	Parking Lot	Markings	Pickup Truc	Diesel	3210.00	SF	8 Hours pe	7.34	hours
2	Parking Lot	Sidewalks	Concrete T	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Dump Truc	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Pickup Truc	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Tractors/Lc	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Sidewalks	Vibratory C	Diesel	4365.00	SF	8 Hours pe	58.2	hours
2	Parking Lot	Soil Erosior	Other Gen	Diesel	5.40	Acre	4 Hours pe	21.6	hours
2	Parking Lot	Soil Erosior	Pickup Truc	Diesel	5.40	Acre	8 Hours pe	43.2	hours
2	Parking Lot	Soil Erosior	Pumps	Diesel	5.40	Acre	4 Hours pe	21.6	hours
2	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	5.40	Acre	4 Hours pe	21.6	hours
2	Parking Lot	Street Light	Dump Truc	Diesel	5.50	Lights	8 Hours pe	14.67	hours
2	Parking Lot	Street Light	Loader	Diesel	5.50	Lights	8 Hours pe	14.67	hours
2	Parking Lot	Street Light	Other Gen	Diesel	5.50	Lights	8 Hours pe	14.67	hours
2	Parking Lot	Street Light	Pickup Truc	Diesel	5.50	Lights	8 Hours pe	14.67	hours
2	Parking Lot	Street Light	Skid Steer l	Diesel	5.50	Lights	8 Hours pe	14.67	hours
2	Parking Lot	Street Light	Tractors/Lc	Diesel	5.50	Lights	8 Hours pe	14.67	hours
2	Parking Lot	Subbase Pl	Dozer	Diesel	24225.80	S	8 Hours pe	51	hours
2	Parking Lot	Subbase Pl	Dump Truc	Diesel	8075.30	CY	8 Hours pe	358.9	hours
2	Parking Lot	Subbase Pl	Pickup Truc	Diesel	24225.80	S	8 Hours pe	51	hours
2	Parking Lot	Subbase Pl	Roller	Diesel	8075.30	CY	8 Hours pe	49.69	hours
2	Parking Lot	Topsoil Pla	Dozer	Diesel	4336.40	CY	8 Hours pe	57.82	hours
2	Parking Lot	Topsoil Pla	Dump Truc	Diesel	4336.40	CY	8 Hours pe	57.82	hours
2	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	4336.40	CY	8 Hours pe	57.82	hours
2	Parking Lot	Tree Planti	Flatbed Tru	Diesel	0.00	Trees	8 Hours pe	0	hours
2	Parking Lot	Tree Planti	Other Gen	Diesel	0.00	Trees	8 Hours pe	0	hours
2	Parking Lot	Tree Planti	Pickup Truc	Diesel	0.00	Trees	8 Hours pe	0	hours
2	Parking Lot	Tree Planti	Tractors/Lc	Diesel	0.00	Trees	8 Hours pe	0	hours
3	Building - 1	Concrete F	Backhoe	Diesel	100000.00	0.0048	Hou	480	hours
3	Building - 1	Concrete F	Concrete P	Diesel	100000.00	0.0018	Hou	180	hours
3	Building - 1	Concrete F	Concrete R	Diesel	100000.00	0.0036	Hou	360	hours
3	Building - 1	Concrete F	Excavator	Diesel	100000.00	0.0016	Hou	160	hours
3	Building - 1	Concrete F	Fork Truck	Diesel	100000.00	0.0048	Hou	480	hours
3	Building - 1	Concrete F	Tool Truck	Diesel	100000.00	0.0012	Hou	120	hours
3	Building - 1	Concrete F	Tractor Tra	Diesel	100000.00	0.0024	Hou	240	hours
3	Building - 1	Constructic	Survey Cre	Diesel	100000.00	0.0001	Hou	10	hours
3	Building - 1	Constructic	Tractor Tra	Diesel	100000.00	0.00004	Ho	4	hours
3	Building - 1	Exterior W	Fork Truck	Diesel	100000.00	0.0084	Hou	840	hours
3	Building - 1	Exterior W	Generator	Diesel	100000.00	0.0008	Hou	80	hours
3	Building - 1	Exterior W	Grout Mixe	Diesel	100000.00	0.0042	Hou	420	hours
3	Building - 1	Exterior W	Grout Whe	Diesel	100000.00	0.0016	Hou	160	hours
3	Building - 1	Exterior W	Man Lift	Diesel	100000.00	0.0168	Hou	1680	hours
3	Building - 1	Exterior W	Tool Truck	Diesel	100000.00	0.0042	Hou	420	hours
3	Building - 1	Exterior W	Tractor Tra	Diesel	100000.00	0.0084	Hou	840	hours
3	Building - 1	Exterior W	Truck Towe	Diesel	100000.00	0.0008	Hou	80	hours
3	Building - 1	Interior Bui	Fork Truck	Diesel	100000.00	0.016	Hour	1600	hours
3	Building - 1	Interior Bui	Man Lift	Diesel	100000.00	0.032	Hour	3200	hours
3	Building - 1	Interior Bui	Tool Truck	Diesel	100000.00	0.016	Hour	1600	hours
3	Building - 1	Interior Bui	Tractor Tra	Diesel	100000.00	0.016	Hour	1600	hours
3	Building - 1	Roofing	High Lift	Diesel	100000.00	0.0016	Hou	160	hours
3	Building - 1	Roofing	Man Lift	Diesel	100000.00	0.0004	Hou	40	hours
3	Building - 1	Roofing	Material De	Diesel	100000.00	0.0006	Hou	60	hours
3	Building - 1	Roofing	Tractor Tra	Diesel	100000.00	0.0004	Hou	40	hours
3	Building - 1	Roofing	Truck Towe	Diesel	100000.00	0.0012	Hou	120	hours
3	Building - 1	Security &	High Lift	Diesel	100000.00	0.008	Hour	800	hours
3	Building - 1	Security &	Tool Truck	Diesel	100000.00	0.008	Hour	800	hours
3	Building - 1	Structural S	90 Ton Cra	Diesel	100000.00	0.0024	Hou	240	hours
3	Building - 1	Structural S	Concrete P	Diesel	100000.00	0.0006	Hou	60	hours
3	Building - 1	Structural S	Concrete T	Diesel	100000.00	0.0006	Hou	60	hours
3	Building - 1	Structural S	Fork Truck	Diesel	100000.00	0.0064	Hou	640	hours
3	Building - 1	Structural S	Tool Truck	Diesel	100000.00	0.0016	Hou	160	hours
3	Building - 1	Structural S	Tractor Tra	Diesel	100000.00	0.0036	Hou	360	hours
3	Building - 1	Structural S	Trowel Ma	Diesel	100000.00	0.0004	Hou	40	hours
3	Building - 1	Structural S	Truck Towe	Diesel	100000.00	0.0072	Hou	720	hours
3	Cargo Apro	Clearing an	Chain Saw	Diesel	5.20	Acre	12 Hours p	62.4	hours
3	Cargo Apro	Clearing an	Chipper/St	Diesel	5.20	Acre	12 Hours p	62.4	hours
3	Cargo Apro	Clearing an	Pickup Truc	Diesel	5.20	Acre	16 Hours p	83.2	hours
3	Cargo Apro	Concrete P	Air Compre	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Concrete P	Concrete S	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Concrete P	Concrete T	Diesel	9885.90	CY	8 Hours pe	329.53	hours
3	Cargo Apro	Concrete P	Other Gen	Diesel	9885.90	CY	16 Hours p	158.17	hours
3	Cargo Apro	Concrete P	Pickup Truc	Diesel	9885.90	CY	24 Hours p	237.26	hours
3	Cargo Apro	Concrete P	Rubber Tire	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Concrete P	Slip Form P	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Concrete P	Surfacing E	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Drainage -	Dozer	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Dump Truc	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Excavator	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Loader	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Other Gen	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Pickup Truc	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Roller	Diesel	865.00	LF	8 Hours pe	27.68	hours
3	Cargo Apro	Drainage -	Dump Truc	Diesel	1730.00	LF	8 Hours pe	15.38	hours
3	Cargo Apro	Drainage -	Loader	Diesel	1730.00	LF	8 Hours pe	15.38	hours
3	Cargo Apro	Drainage -	Other Gen	Diesel	1730.00	LF	8 Hours pe	15.38	hours
3	Cargo Apro	Drainage -	Pickup Truc	Diesel	1730.00	LF	8 Hours pe	15.38	hours
3	Cargo Apro	Drainage -	Tractors/Lc	Diesel	1730.00	LF	8 Hours pe	15.38	hours
3	Cargo Apro	Dust Contr	Water Truc	Diesel	180.00	Day	8 Hours pe	1440	hours
3	Cargo Apro	Excavation	Dozer	Diesel	9885.90	CY	8 Hours pe	131.81	hours
3	Cargo Apro	Excavation	Dump Truc	Diesel	9885.90	CY	8 Hours pe	131.81	hours
3	Cargo Apro	Excavation	Pickup Truc	Diesel	9885.90	CY	8 Hours pe	131.81	hours
3	Cargo Apro	Excavation	Roller	Diesel	9885.90	CY	8 Hours pe	60.84	hours
3	Cargo Apro	Excavation	Dozer	Diesel	9885.90	CY	8 Hours pe	98.86	hours
3	Cargo Apro	Excavation	Dump Truc	Diesel	9885.90	CY	8 Hours pe	263.62	hours
3	Cargo Apro	Excavation	Excavator	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Excavation	Pickup Truc	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Excavation	Roller	Diesel	9885.90	CY	8 Hours pe	79.09	hours
3	Cargo Apro	Excavation	Scraper	Diesel	9885.90	CY	8 Hours pe	98.86	hours
3	Cargo Apro	Excavation	Dozer	Diesel	23726.30	S	8 Hours pe	37.22	hours
3	Cargo Apro	Fencing	Concrete T	Diesel	855.00	LF	2 Hours pe	9.5	hours

*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***

*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***

ACEIT Output - Modified Asphalt Application Rates

3	Cargo Apro	Fencing	Dump Truc	Diesel	855.00	LF	8 Hours pe	38	hours	
3	Cargo Apro	Fencing	Other Gene	Diesel	855.00	LF	8 Hours pe	38	hours	
3	Cargo Apro	Fencing	Pickup Truc	Diesel	855.00	LF	8 Hours pe	38	hours	
3	Cargo Apro	Fencing	Skid Steer l	Diesel	855.00	LF	8 Hours pe	38	hours	
3	Cargo Apro	Fencing	Tractors/Lc	Diesel	855.00	LF	8 Hours pe	38	hours	
3	Cargo Apro	Grading	Dozer	Diesel	24963.90	S	8 Hours pe	24.96	hours	
3	Cargo Apro	Grading	Grader	Diesel	24963.90	S	8 Hours pe	24.96	hours	
3	Cargo Apro	Grading	Roller	Diesel	24963.90	S	8 Hours pe	24.96	hours	
3	Cargo Apro	Hydroseed	Hydroseed	Diesel	224900.00		8 Hours pe	22.49	hours	
3	Cargo Apro	Hydroseed	Off-Road T	Diesel	224900.00		8 Hours pe	22.49	hours	
3	Cargo Apro	Lighting	Dump Truc	Diesel	2210.00	LF	8 Hours pe	14.73	hours	
3	Cargo Apro	Lighting	Loader	Diesel	2210.00	LF	8 Hours pe	14.73	hours	
3	Cargo Apro	Lighting	Other Gene	Diesel	2210.00	LF	8 Hours pe	14.73	hours	
3	Cargo Apro	Lighting	Pickup Truc	Diesel	2210.00	LF	8 Hours pe	14.73	hours	
3	Cargo Apro	Lighting	Skid Steer l	Diesel	2210.00	LF	8 Hours pe	14.73	hours	
3	Cargo Apro	Lighting	Tractors/Lc	Diesel	2210.00	LF	8 Hours pe	14.73	hours	
3	Cargo Apro	Markings	Flatbed Tru	Diesel	213750.00		8 Hours pe	488.57	hours	
3	Cargo Apro	Markings	Other Gene	Diesel	213750.00		8 Hours pe	488.57	hours	
3	Cargo Apro	Markings	Pickup Truc	Diesel	213750.00		8 Hours pe	488.57	hours	
3	Cargo Apro	Sealing/Fue	Distributing	Diesel	23726.30	S	8 Hours pe	63.27	hours	
3	Cargo Apro	Sealing/Fue	Other Gene	Diesel	23726.30	S	8 Hours pe	63.27	hours	
3	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	23726.30	S	8 Hours pe	63.27	hours	
3	Cargo Apro	Soil Erosior	Other Gene	Diesel	5.20	Acre	4 Hours pe	20.8	hours	
3	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	5.20	Acre	8 Hours pe	41.6	hours	
3	Cargo Apro	Soil Erosior	Pumps	Diesel	5.20	Acre	4 Hours pe	20.8	hours	
3	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	5.20	Acre	4 Hours pe	20.8	hours	
3	Cargo Apro	Subbase Pl	Dozer	Diesel	23726.30	S	8 Hours pe	49.95	hours	
3	Cargo Apro	Subbase Pl	Dump Truc	Diesel	7908.80	CY	8 Hours pe	351.5	hours	
3	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	23726.30	S	8 Hours pe	49.95	hours	
3	Cargo Apro	Subbase Pl	Roller	Diesel	7908.80	CY	8 Hours pe	48.67	hours	
3	Cargo Apro	Topsoil Pla	Dozer	Diesel	4160.70	CY	8 Hours pe	55.48	hours	
3	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	4160.70	CY	8 Hours pe	55.48	hours	
3	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	4160.70	CY	8 Hours pe	55.48	hours	
3	Drainage S	Drainage -	Dozer	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Dump Truc	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Excavator	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Loader	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Other Gene	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Pickup Truc	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Roller	Diesel	600.00	LF	8 Hours pe	35.29	hours	
3	Drainage S	Drainage -	Dozer	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage -	Dump Truc	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage -	Excavator	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage -	Loader	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage -	Other Gene	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage -	Pickup Truc	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage -	Roller	Diesel	600.00	LF	8 Hours pe	19.2	hours	
3	Drainage S	Drainage St	Dump Truc	Diesel	1.20	Unit	4 Hours pe	4.8	hours	
3	Drainage S	Drainage St	Excavator	Diesel	1.20	Unit	8 Hours pe	4.8	hours	
3	Drainage S	Drainage St	Other Gene	Diesel	1.20	Unit	8 Hours pe	9.6	hours	
3	Drainage S	Drainage St	Pickup Truc	Diesel	1.20	Unit	8 Hours pe	9.6	hours	
3	Drainage S	Hydroseed	Hydroseed	Diesel	12200.00	S	8 Hours pe	1.22	hours	
3	Drainage S	Hydroseed	Off-Road T	Diesel	12200.00	S	8 Hours pe	1.22	hours	
3	Drainage S	Soil Erosior	Other Gene	Diesel	0.30	Acre	4 Hours pe	1.2	hours	
3	Drainage S	Soil Erosior	Pickup Truc	Diesel	0.30	Acre	8 Hours pe	2.4	hours	
3	Drainage S	Soil Erosior	Pumps	Diesel	0.30	Acre	4 Hours pe	1.2	hours	
3	Drainage S	Soil Erosior	Tractors/Lc	Diesel	0.30	Acre	4 Hours pe	1.2	hours	
3	Drainage S	Topsoil Pla	Dozer	Diesel	225.70	CY	8 Hours pe	3.01	hours	
3	Drainage S	Topsoil Pla	Dump Truc	Diesel	225.70	CY	8 Hours pe	3.01	hours	
3	Drainage S	Topsoil Pla	Pickup Truc	Diesel	225.70	CY	8 Hours pe	3.01	hours	
3	Fuel Tanks	Clearing an	Chain Saw	Diesel	1.10	Acre	12 Hours p	13.2	hours	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Fuel Tanks	Clearing an	Chipper/St	Diesel	1.10	Acre	12 Hours p	13.2	hours	
3	Fuel Tanks	Clearing an	Pickup Truc	Diesel	1.10	Acre	16 Hours p	17.6	hours	
3	Fuel Tanks	Concrete P	Air Compre	Diesel	1919.40	CY	8 Hours pe	15.36	hours	
3	Fuel Tanks	Concrete P	Concrete S	Diesel	1919.40	CY	8 Hours pe	15.36	hours	
3	Fuel Tanks	Concrete P	Concrete T	Diesel	1919.40	CY	8 Hours pe	63.98	hours	
3	Fuel Tanks	Concrete P	Other Gene	Diesel	1919.40	CY	16 Hours p	30.71	hours	
3	Fuel Tanks	Concrete P	Pickup Truc	Diesel	1919.40	CY	24 Hours p	46.07	hours	
3	Fuel Tanks	Concrete P	Rubber Tire	Diesel	1919.40	CY	8 Hours pe	15.36	hours	
3	Fuel Tanks	Concrete P	Slip Form P	Diesel	1919.40	CY	8 Hours pe	15.36	hours	
3	Fuel Tanks	Concrete P	Surfacing E	Diesel	1919.40	CY	8 Hours pe	15.36	hours	
3	Fuel Tanks	Constructic	Crane	Diesel	5.00	Tank	3 Hours pe	15	hours	
3	Fuel Tanks	Constructic	Other Gene	Diesel	5.00	Tank	8 Hours pe	40	hours	
3	Fuel Tanks	Constructic	Pickup Truc	Diesel	5.00	Tank	8 Hours pe	40	hours	
3	Fuel Tanks	Drainage -	Excavator	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Drainage	Dozer	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Drainage	Dump Truc	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Drainage	Loader	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Drainage	Other Gene	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Drainage	Pickup Truc	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Drainage	Roller	Diesel	425.00	LF	8 Hours pe	13.6	hours	
3	Fuel Tanks	Dust Contr	Water Truc	Diesel	180.00	Day	8 Hours pe	1440	hours	
3	Fuel Tanks	Excavation	Dozer	Diesel	6142.00	CY	8 Hours pe	81.89	hours	
3	Fuel Tanks	Excavation	Dump Truc	Diesel	6142.00	CY	8 Hours pe	81.89	hours	
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	6142.00	CY	8 Hours pe	81.89	hours	
3	Fuel Tanks	Excavation	Roller	Diesel	6142.00	CY	8 Hours pe	37.8	hours	
3	Fuel Tanks	Excavation	Dozer	Diesel	6142.00	CY	8 Hours pe	61.42	hours	
3	Fuel Tanks	Excavation	Dump Truc	Diesel	6142.00	CY	8 Hours pe	163.79	hours	
3	Fuel Tanks	Excavation	Excavator	Diesel	6142.00	CY	8 Hours pe	49.14	hours	
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	6142.00	CY	8 Hours pe	49.14	hours	
3	Fuel Tanks	Excavation	Roller	Diesel	6142.00	CY	8 Hours pe	49.14	hours	
3	Fuel Tanks	Excavation	Scraper	Diesel	6142.00	CY	8 Hours pe	61.42	hours	
3	Fuel Tanks	Excavation	Dozer	Diesel	4606.50	SY	8 Hours pe	7.23	hours	
3	Fuel Tanks	Fencing	Concrete T	Diesel	415.00	LF	2 Hours pe	4.61	hours	
3	Fuel Tanks	Fencing	Dump Truc	Diesel	415.00	LF	8 Hours pe	18.44	hours	
3	Fuel Tanks	Fencing	Other Gene	Diesel	415.00	LF	8 Hours pe	18.44	hours	
3	Fuel Tanks	Fencing	Pickup Truc	Diesel	415.00	LF	8 Hours pe	18.44	hours	
3	Fuel Tanks	Fencing	Skid Steer l	Diesel	415.00	LF	8 Hours pe	18.44	hours	
3	Fuel Tanks	Fencing	Tractors/Lc	Diesel	415.00	LF	8 Hours pe	18.44	hours	
3	Fuel Tanks	Grading	Dozer	Diesel	5189.30	SY	8 Hours pe	5.19	hours	
3	Fuel Tanks	Grading	Grader	Diesel	5189.30	SY	8 Hours pe	5.19	hours	
3	Fuel Tanks	Grading	Roller	Diesel	5189.30	SY	8 Hours pe	5.19	hours	
3	Fuel Tanks	Hydroseed	Hydroseed	Diesel	46750.00	S	8 Hours pe	4.68	hours	
3	Fuel Tanks	Hydroseed	Off-Road T	Diesel	46750.00	S	8 Hours pe	4.68	hours	
3	Fuel Tanks	Markings	Flatbed Tru	Diesel	41500.00	S	8 Hours pe	94.86	hours	
3	Fuel Tanks	Markings	Other Gene	Diesel	41500.00	S	8 Hours pe	94.86	hours	
3	Fuel Tanks	Markings	Pickup Truc	Diesel	41500.00	S	8 Hours pe	94.86	hours	
3	Fuel Tanks	Soil Erosior	Other Gene	Diesel	1.10	Acre	4 Hours pe	4.4	hours	
3	Fuel Tanks	Soil Erosior	Pickup Truc	Diesel	1.10	Acre	8 Hours pe	8.8	hours	
3	Fuel Tanks	Soil Erosior	Pumps	Diesel	1.10	Acre	4 Hours pe	4.4	hours	
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel	1.10	Acre	4 Hours pe	4.4	hours	
3	Fuel Tanks	Street Light	Dump Truc	Diesel	1.00	Lights	8 Hours pe	2.67	hours	
3	Fuel Tanks	Street Light	Loader	Diesel	1.00	Lights	8 Hours pe	2.67	hours	
3	Fuel Tanks	Street Light	Other Gene	Diesel	1.00	Lights	8 Hours pe	2.67	hours	
3	Fuel Tanks	Street Light	Pickup Truc	Diesel	1.00	Lights	8 Hours pe	2.67	hours	
3	Fuel Tanks	Street Light	Skid Steer l	Diesel	1.00	Lights	8 Hours pe	2.67	hours	
3	Fuel Tanks	Street Light	Tractors/Lc	Diesel	1.00	Lights	8 Hours pe	2.67	hours	
3	Fuel Tanks	Subbase Pl	Dozer	Diesel	4606.50	SY	8 Hours pe	9.7	hours	
3	Fuel Tanks	Subbase Pl	Dump Truc	Diesel	1535.50	CY	8 Hours pe	68.24	hours	
3	Fuel Tanks	Subbase Pl	Pickup Truc	Diesel	4606.50	SY	8 Hours pe	9.7	hours	
3	Fuel Tanks	Subbase Pl	Roller	Diesel	1535.50	CY	8 Hours pe	9.45	hours	
3	Fuel Tanks	Topsoil Pla	Dozer	Diesel	1729.80	CY	8 Hours pe	23.06	hours	
3	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel	1729.80	CY	8 Hours pe	23.06	hours	
3	Fuel Tanks	Topsoil Pla	Pickup Truc	Diesel	1729.80	CY	8 Hours pe	23.06	hours	
3	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	40376.30	S	8 Hours pe	50.47	hours	
3	Parking Lot	Asphalt Pla	Dump Truc	Diesel	40376.30	S	8 Hours pe	181.77	hours	
3	Parking Lot	Asphalt Pla	Other Gene	Diesel	40376.30	S	16 Hours p	100.94	hours	
3	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	40376.30	S	8 Hours pe	50.47	hours	
3	Parking Lot	Asphalt Pla	Roller	Diesel	40376.30	S	8 Hours pe	50.47	hours	
3	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	40376.30	S	8 Hours pe	50.47	hours	
3	Parking Lot	Asphalt Pla	Surfacing E	Diesel	40376.30	S	8 Hours pe	64.6	hours	
3	Parking Lot	Clearing an	Chain Saw	Diesel	9.00	Acre	12 Hours p	108	hours	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Parking Lot	Clearing an	Chipper/St	Diesel	9.00	Acre	12 Hours p	108	hours	
3	Parking Lot	Clearing an	Pickup Truc	Diesel	9.00	Acre	16 Hours p	144	hours	
3	Parking Lot	Curbing	Concrete T	Diesel	2425.00	LF	8 Hours pe	48.5	hours	
3	Parking Lot	Curbing	Curb/Gutte	Diesel	2425.00	LF	8 Hours pe	48.5	hours	
3	Parking Lot	Curbing	Other Gene	Diesel	2425.00	LF	8 Hours pe	48.5	hours	
3	Parking Lot	Curbing	Pickup Truc	Diesel	2425.00	LF	8 Hours pe	48.5	hours	
3	Parking Lot	Drainage -	Dozer	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Dump Truc	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Excavator	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Loader	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Other Gene	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Pickup Truc	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Roller	Diesel	2435.00	LF	8 Hours pe	77.92	hours	
3	Parking Lot	Drainage -	Dump Truc	Diesel	14610.00	L	8 Hours pe	129.87	hours	
3	Parking Lot	Drainage -	Loader	Diesel	14610.00	L	8 Hours pe	129.87	hours	
3	Parking Lot	Drainage -	Other Gene	Diesel	14610.00	L	8 Hours pe	129.87	hours	
3	Parking Lot	Drainage -	Pickup Truc	Diesel	14610.00	L	8 Hours pe	129.87	hours	
3	Parking Lot	Drainage -	Tractors/Lc	Diesel	14610.00	L	8 Hours pe	129.87	hours	
3	Parking Lot	Excavation	Dozer	Diesel	16823.40	C	8 Hours pe	224.31	hours	
3	Parking Lot	Excavation	Dump Truc	Diesel	16823.40	C	8 Hours pe	224.31	hours	
3	Parking Lot	Excavation	Pickup Truc	Diesel	16823.40	C	8 Hours pe	224.31	hours	

ACEIT Output - Modified Asphalt Application Rates

3	Parking Lot	Excavation	Roller	Diesel	16823.40 C	8 Hours pe	103.53	hours		
3	Parking Lot	Excavation	Dozer	Diesel	16823.40 C	8 Hours pe	168.23	hours		
3	Parking Lot	Excavation	Dump Truc	Diesel	16823.40 C	8 Hours pe	448.62	hours		
3	Parking Lot	Excavation	Excavator	Diesel	16823.40 C	8 Hours pe	134.59	hours		
3	Parking Lot	Excavation	Pickup Truc	Diesel	16823.40 C	8 Hours pe	134.59	hours		
3	Parking Lot	Excavation	Roller	Diesel	16823.40 C	8 Hours pe	134.59	hours		
3	Parking Lot	Excavation	Scraper	Diesel	16823.40 C	8 Hours pe	168.23	hours		
3	Parking Lot	Excavation	Dozer	Diesel	40376.30 S	8 Hours pe	63.34	hours		
3	Parking Lot	Fencing	Concrete T	Diesel	2425.00 LF	2 Hours pe	26.94	hours		
3	Parking Lot	Fencing	Dump Truc	Diesel	2425.00 LF	8 Hours pe	107.78	hours		
3	Parking Lot	Fencing	Other Gene	Diesel	2425.00 LF	8 Hours pe	107.78	hours		
3	Parking Lot	Fencing	Pickup Truc	Diesel	2425.00 LF	8 Hours pe	107.78	hours		
3	Parking Lot	Fencing	Skid Steer l	Diesel	2425.00 LF	8 Hours pe	107.78	hours		
3	Parking Lot	Fencing	Tractors/Lc	Diesel	2425.00 LF	8 Hours pe	107.78	hours		
3	Parking Lot	Grading	Dozer	Diesel	43245.60 S	8 Hours pe	43.25	hours		
3	Parking Lot	Grading	Grader	Diesel	43245.60 S	8 Hours pe	43.25	hours		
3	Parking Lot	Grading	Roller	Diesel	43245.60 S	8 Hours pe	43.25	hours		
3	Parking Lot	Hydroseed	Hydroseed	Diesel	389600.00	8 Hours pe	38.96	hours		
3	Parking Lot	Hydroseed	Off-Road T	Diesel	389600.00	8 Hours pe	38.96	hours		
3	Parking Lot	Markings	Flatbed Tru	Diesel	5150.00 SF	8 Hours pe	11.77	hours		
3	Parking Lot	Markings	Other Gene	Diesel	5150.00 SF	8 Hours pe	11.77	hours		
3	Parking Lot	Markings	Pickup Truc	Diesel	5150.00 SF	8 Hours pe	11.77	hours		
3	Parking Lot	Sidewalks	Concrete T	Diesel	7275.00 SF	8 Hours pe	97	hours		
3	Parking Lot	Sidewalks	Dump Truc	Diesel	7275.00 SF	8 Hours pe	97	hours		
3	Parking Lot	Sidewalks	Pickup Truc	Diesel	7275.00 SF	8 Hours pe	97	hours		
3	Parking Lot	Sidewalks	Tractors/Lc	Diesel	7275.00 SF	8 Hours pe	97	hours		
3	Parking Lot	Sidewalks	Vibratory C	Diesel	7275.00 SF	8 Hours pe	97	hours		
3	Parking Lot	Soil Erosior	Other Gene	Diesel	9.00 Acre	4 Hours pe	36	hours		
3	Parking Lot	Soil Erosior	Pickup Truc	Diesel	9.00 Acre	8 Hours pe	72	hours		
3	Parking Lot	Soil Erosior	Pumps	Diesel	9.00 Acre	4 Hours pe	36	hours		
3	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	9.00 Acre	4 Hours pe	36	hours		
3	Parking Lot	Street Light	Dump Truc	Diesel	9.10 Lights	8 Hours pe	24.27	hours		
3	Parking Lot	Street Light	Loader	Diesel	9.10 Lights	8 Hours pe	24.27	hours		
3	Parking Lot	Street Light	Other Gene	Diesel	9.10 Lights	8 Hours pe	24.27	hours		
3	Parking Lot	Street Light	Pickup Truc	Diesel	9.10 Lights	8 Hours pe	24.27	hours		
3	Parking Lot	Street Light	Skid Steer l	Diesel	9.10 Lights	8 Hours pe	24.27	hours		
3	Parking Lot	Street Light	Tractors/Lc	Diesel	9.10 Lights	8 Hours pe	24.27	hours		
3	Parking Lot	Subbase Pl	Dozer	Diesel	40376.30 S	8 Hours pe	85	hours		
3	Parking Lot	Subbase Pl	Dump Truc	Diesel	13458.80 C	8 Hours pe	598.17	hours		
3	Parking Lot	Subbase Pl	Pickup Truc	Diesel	40376.30 S	8 Hours pe	85	hours		
3	Parking Lot	Subbase Pl	Roller	Diesel	13458.80 C	8 Hours pe	82.82	hours		
3	Parking Lot	Topsoil Pla	Dozer	Diesel	7207.60 CY	8 Hours pe	96.1	hours		
3	Parking Lot	Topsoil Pla	Dump Truc	Diesel	7207.60 CY	8 Hours pe	96.1	hours		
3	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	7207.60 CY	8 Hours pe	96.1	hours		
3	Parking Lot	Tree Planti	Flatbed Tru	Diesel	5.00 Trees	8 Hours pe	4	hours		
3	Parking Lot	Tree Planti	Other Gene	Diesel	5.00 Trees	8 Hours pe	4	hours		
3	Parking Lot	Tree Planti	Pickup Truc	Diesel	5.00 Trees	8 Hours pe	4	hours		
3	Parking Lot	Tree Planti	Tractors/Lc	Diesel	5.00 Trees	8 Hours pe	4	hours		
3	Taxiways	Asphalt Pla	Asphalt Pa	Diesel	13375.50 S	8 Hours pe	16.72	hours		
3	Taxiways	Asphalt Pla	Dump Truc	Diesel	13375.50 S	8 Hours pe	60.22	hours		
3	Taxiways	Asphalt Pla	Other Gene	Diesel	13375.50 S	16 Hours p	33.44	hours		
3	Taxiways	Asphalt Pla	Pickup Truc	Diesel	13375.50 S	8 Hours pe	16.72	hours		
3	Taxiways	Asphalt Pla	Roller	Diesel	13375.50 S	8 Hours pe	16.72	hours		
3	Taxiways	Asphalt Pla	Skid Steer l	Diesel	13375.50 S	8 Hours pe	16.72	hours		
3	Taxiways	Asphalt Pla	Surfacing E	Diesel	13375.50 S	8 Hours pe	21.4	hours		
3	Taxiways	Clearing an	Chain Saw	Diesel	3.10 Acre	12 Hours p	37.2	hours	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***	
3	Taxiways	Clearing an	Chipper/St	Diesel	3.10 Acre	12 Hours p	37.2	hours		
3	Taxiways	Clearing an	Pickup Truc	Diesel	3.10 Acre	16 Hours p	49.6	hours		
3	Taxiways	Drainage -	Dozer	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Dump Truc	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Excavator	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Loader	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Other Gene	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Pickup Truc	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Roller	Diesel	1215.00 LF	8 Hours pe	38.88	hours		
3	Taxiways	Drainage -	Dump Truc	Diesel	2430.00 LF	8 Hours pe	21.6	hours		
3	Taxiways	Drainage -	Loader	Diesel	2430.00 LF	8 Hours pe	21.6	hours		
3	Taxiways	Drainage -	Other Gene	Diesel	2430.00 LF	8 Hours pe	21.6	hours		
3	Taxiways	Drainage -	Pickup Truc	Diesel	2430.00 LF	8 Hours pe	21.6	hours		
3	Taxiways	Drainage -	Tractors/Lc	Diesel	2430.00 LF	8 Hours pe	21.6	hours		
3	Taxiways	Dust Contr	Water Truc	Diesel	180.00 Day	8 Hours pe	1440	hours		
3	Taxiways	Excavation	Dozer	Diesel	5573.10 CY	8 Hours pe	74.31	hours		
3	Taxiways	Excavation	Dump Truc	Diesel	5573.10 CY	8 Hours pe	74.31	hours		
3	Taxiways	Excavation	Pickup Truc	Diesel	5573.10 CY	8 Hours pe	74.31	hours		
3	Taxiways	Excavation	Roller	Diesel	5573.10 CY	8 Hours pe	34.3	hours		
3	Taxiways	Excavation	Dozer	Diesel	5573.10 CY	8 Hours pe	55.73	hours		
3	Taxiways	Excavation	Dump Truc	Diesel	5573.10 CY	8 Hours pe	148.62	hours		
3	Taxiways	Excavation	Excavator	Diesel	5573.10 CY	8 Hours pe	44.58	hours		
3	Taxiways	Excavation	Pickup Truc	Diesel	5573.10 CY	8 Hours pe	44.58	hours		
3	Taxiways	Excavation	Roller	Diesel	5573.10 CY	8 Hours pe	44.58	hours		
3	Taxiways	Excavation	Scraper	Diesel	5573.10 CY	8 Hours pe	55.73	hours		
3	Taxiways	Excavation	Dozer	Diesel	13375.50 S	8 Hours pe	20.98	hours		
3	Taxiways	Fencing	Concrete T	Diesel	1205.00 LF	2 Hours pe	13.39	hours		
3	Taxiways	Fencing	Dump Truc	Diesel	1205.00 LF	8 Hours pe	53.56	hours		
3	Taxiways	Fencing	Other Gene	Diesel	1205.00 LF	8 Hours pe	53.56	hours		
3	Taxiways	Fencing	Pickup Truc	Diesel	1205.00 LF	8 Hours pe	53.56	hours		
3	Taxiways	Fencing	Skid Steer l	Diesel	1205.00 LF	8 Hours pe	53.56	hours		
3	Taxiways	Fencing	Tractors/Lc	Diesel	1205.00 LF	8 Hours pe	53.56	hours		
3	Taxiways	Grading	Dozer	Diesel	14835.20 S	8 Hours pe	14.84	hours		
3	Taxiways	Grading	Grader	Diesel	14835.20 S	8 Hours pe	14.84	hours		
3	Taxiways	Grading	Roller	Diesel	14835.20 S	8 Hours pe	14.84	hours		
3	Taxiways	Hydroseed	Hydroseed	Diesel	133650.00	8 Hours pe	13.37	hours		
3	Taxiways	Hydroseed	Off-Road T	Diesel	133650.00	8 Hours pe	13.37	hours		
3	Taxiways	Lighting	Dump Truc	Diesel	2610.00 LF	8 Hours pe	17.4	hours		
3	Taxiways	Lighting	Loader	Diesel	2610.00 LF	8 Hours pe	17.4	hours		
3	Taxiways	Lighting	Other Gene	Diesel	2610.00 LF	8 Hours pe	17.4	hours		
3	Taxiways	Lighting	Pickup Truc	Diesel	2610.00 LF	8 Hours pe	17.4	hours		
3	Taxiways	Lighting	Skid Steer l	Diesel	2610.00 LF	8 Hours pe	17.4	hours		
3	Taxiways	Lighting	Tractors/Lc	Diesel	2610.00 LF	8 Hours pe	17.4	hours		
3	Taxiways	Markings	Flatbed Tru	Diesel	120500.00	8 Hours pe	275.43	hours		
3	Taxiways	Markings	Other Gene	Diesel	120500.00	8 Hours pe	275.43	hours		
3	Taxiways	Markings	Pickup Truc	Diesel	120500.00	8 Hours pe	275.43	hours		
3	Taxiways	Soil Erosior	Other Gene	Diesel	3.10 Acre	4 Hours pe	12.4	hours		
3	Taxiways	Soil Erosior	Pickup Truc	Diesel	3.10 Acre	8 Hours pe	24.8	hours		
3	Taxiways	Soil Erosior	Pumps	Diesel	3.10 Acre	4 Hours pe	12.4	hours		
3	Taxiways	Soil Erosior	Tractors/Lc	Diesel	3.10 Acre	4 Hours pe	12.4	hours		
3	Taxiways	Subbase Pl	Dozer	Diesel	13375.50 S	8 Hours pe	28.16	hours		
3	Taxiways	Subbase Pl	Dump Truc	Diesel	4458.50 CY	8 Hours pe	198.16	hours		
3	Taxiways	Subbase Pl	Pickup Truc	Diesel	13375.50 S	8 Hours pe	28.16	hours		
3	Taxiways	Subbase Pl	Roller	Diesel	4458.50 CY	8 Hours pe	27.44	hours		
3	Taxiways	Topsoil Pla	Dozer	Diesel	2472.50 CY	8 Hours pe	32.97	hours		
3	Taxiways	Topsoil Pla	Dump Truc	Diesel	2472.50 CY	8 Hours pe	32.97	hours		
3	Taxiways	Topsoil Pla	Pickup Truc	Diesel	2472.50 CY	8 Hours pe	32.97	hours		

Activity: On-Road (Estimated based on engineering experience)

Scenario ID	Project	Equipment	On-road Ac	Fuel	Roadway T	Round Trip	Number of	Number of	Project Len	Project Wic	Project Are	Building He	Open Spac	Number of	Activity Siz	Activity Rat	Default VM	User VMT
1	Cargo Apro	Asphalt 18	Material De	Diesel	Urban Unre	40	--	43	428	250	--	--	--	--	--	--	1553	
1	Cargo Apro	Cement Mi	Material De	Diesel	Urban Unre	40	--	43	428	250	--	--	--	--	--	--	24744	
1	Cargo Apro	Dump Truc	Material De	Diesel	Urban Unre	40	--	43	428	250	--	--	--	--	--	--	2199	
1	Cargo Apro	Dump Truc	Material De	Diesel	Urban Unre	40	--	43	428	250	--	--	--	--	--	--	13197	
1	Cargo Apro	Passenger	Employee (	Gasoline	Urban Unre	30	69	43	--	--	--	--	--	--	--	--	89010	
1	Parking Lot	Asphalt 18	Material De	Diesel	Urban Unre	40	--	43	970	150	--	--	--	--	--	--	2111	
1	Parking Lot	Cement Mi	Material De	Diesel	Urban Unre	40	--	43	970	150	--	--	--	--	--	--	33647	
1	Parking Lot	Dump Truc	Material De	Diesel	Urban Unre	40	--	43	970	150	--	--	--	--	--	--	2991	
1	Parking Lot	Dump Truc	Material De	Diesel	Urban Unre	40	--	43	970	150	--	--	--	--	--	--	17945	
1	Parking Lot	Passenger	Employee (	Gasoline	Urban Unre	30	77	43	--	--	--	--	--	--	--	--	99330	
1	Rehabilitat	Asphalt 18	Material De	Diesel	Urban Unre	40	--	43	3675	250	--	--	--	--	--	--	13331	
1	Rehabilitat	Cement Mi	Material De	Diesel	Urban Unre	40	--	43	3675	250	--	--	--	--	--	--	212461	
1	Rehabilitat	Dump Truc	Material De	Diesel	Urban Unre	40	--	43	3675	250	--	--	--	--	--	--	18885	
1	Rehabilitat	Dump Truc	Material De	Diesel	Urban Unre	40	--	43	3675	250	--	--	--	--	--	--	113313	
1	Rehabilitat	Passenger	Employee (	Gasoline	Urban Unre	30	49	43	--	--	--	--	--	--	--	--	63210	
2	Building - 1	Cement Mi	Material De	Diesel	Urban Unre	40	--	65	--	--	100000	--	--	--	--	--	23125	
2	Building - 1	Dump Truc	Material De	Diesel	Urban Unre	40	--	65	--	--	100000	--	--	--	--	--	12333	
2	Building - 1	Passenger	Employee (	Gasoline	Urban Unre	30	137.5	65	--	--	--	--	--	--	--	--	268125	
2	Building - 1	Tractor Tra	Material De	Diesel	Urban Unre	40	--	65	--	--	100000	--	--	--	--	0.0024	2400	
2	Cargo Apro	Asphalt 18	Material De	Diesel	Urban Unre	40	--	65	642	250	--	--	--	--	--	--	2329	
2	Cargo Apro	Cement Mi	Material De	Diesel	Urban Unre	40	--	65	642	250	--	--	--	--	--	--	37116	
2	Cargo Apro	Dump Truc	Material De	Diesel	Urban Unre	40	--	65	642	250	--	--	--	--	--	--	3299	
2	Cargo Apro	Dump Truc	Material De	Diesel	Urban Unre	40	--	65	642	250	--	--	--	--	--	--	19795	
2	Cargo Apro	Passenger	Employee (	Gasoline	Urban Unre	30	69	65	--	--	--	--	--	--	--	--	134550	
2	Parking Lot	Asphalt 18	Material De	Diesel	Urban Unre	40	--	65	1455	150	--	--	--	--	--	--	3167	
2	Parking Lot	Cement Mi	Material De	Diesel	Urban Unre	40	--	65	1455	150	--	--	--	--	--	--	50470	
2	Parking Lot	Dump Truc	Material De	Diesel	Urban Unre	40	--	65	1455	150	--	--	--	--	--	--	4486	
2	Parking Lot	Dump Truc	Material De	Diesel	Urban Unre	40	--	65	1455	150	--	--	--	--	--	--	26918	
2	Parking Lot	Passenger	Employee (	Gasoline	Urban Unre	30	77	65	--	--	--	--	--	--	--	--	150150	
3	Building - 1	Cement Mi	Material De	Diesel	Urban Unre	40	--	129	--	--	100000	--	--	--	--	--	23125	
3	Building - 1	Dump Truc	Material De	Diesel	Urban Unre	40	--	129	--	--	100000	--	--	--	--	--	12333	
3	Building - 1	Passenger	Employee (	Gasoline	Urban Unre	30	137.5	129	--	--	--	--	--	--	--	--	532125	
3	Building - 1	Tractor Tra	Material De	Diesel	Urban Unre	40	--	129	--	--	100000	--	--	--	--	0.0024	2400	
3	Cargo Apro	Asphalt 18	Material De	Diesel	Urban Unre	40	--	129	855	250	--	--	--	--	--	--	3101	
3	Cargo Apro	Cement Mi	Material De	Diesel	Urban Unre	40	--	129	855	250	--	--	--	--	--	--	49430	

ACEIT Output - Modified Asphalt Application Rates

3	Cargo Apro	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	855	250	--	--	--	--	--	--	4394
3	Cargo Apro	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	855	250	--	--	--	--	--	--	26363
3	Cargo Apro	Passenger	Employee (	Gasoline	Urban Unre	30		69	129	--	--	--	--	--	--	--	--	267030
3	Drainage S	Passenger	Employee (	Gasoline	Urban Unre	30		27	129	--	--	--	--	--	--	--	--	104490
3	Fuel Tanks	Asphalt 18	Material De	Diesel	Urban Unre	40	--		129	415	100	--	--	--	--	--	--	602
3	Fuel Tanks	Cement Mi	Material De	Diesel	Urban Unre	40	--		129	415	100	--	--	--	--	--	--	9597
3	Fuel Tanks	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	415	100	--	--	--	--	--	--	853
3	Fuel Tanks	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	415	100	--	--	--	--	--	--	5118
3	Fuel Tanks	Passenger	Employee (	Gasoline	Urban Unre	30		64	129	--	--	--	--	--	--	--	--	247680
3	Parking Lot	Asphalt 18	Material De	Diesel	Urban Unre	40	--		129	2425	150	--	--	--	--	--	--	5278
3	Parking Lot	Cement Mi	Material De	Diesel	Urban Unre	40	--		129	2425	150	--	--	--	--	--	--	84117
3	Parking Lot	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	2425	150	--	--	--	--	--	--	7477
3	Parking Lot	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	2425	150	--	--	--	--	--	--	44863
3	Parking Lot	Passenger	Employee (	Gasoline	Urban Unre	30		77	129	--	--	--	--	--	--	--	--	297990
3	Taxiways	Asphalt 18	Material De	Diesel	Urban Unre	40	--		129	1205	100	--	--	--	--	--	--	1748
3	Taxiways	Cement Mi	Material De	Diesel	Urban Unre	40	--		129	1205	100	--	--	--	--	--	--	27866
3	Taxiways	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	1205	100	--	--	--	--	--	--	2477
3	Taxiways	Dump Truc	Material De	Diesel	Urban Unre	40	--		129	1205	100	--	--	--	--	--	--	14862
3	Taxiways	Passenger	Employee (	Gasoline	Urban Unre	30		65	129	--	--	--	--	--	--	--	--	251550

Emission Factor: Non-Road (from NONROAD)

Scenario ID	Project	Constructic	Equipment	Fuel Type	Avg Rated I	Load Facto	CO (g/hp-h	NOx (g/hp-	CO2 (g/hp-	SO2 (g/hp-l	PM10 (g/h	PM2.5 (g/h	VOC Exhau	VOC Evaporative (g/equipment-day)	
1	Cargo Apro	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.74819	8.968334	61.88836	26.04661	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Cargo Apro	Clearing an	Chipper/St	Diesel	100	0.43	1.929616	3.464993	589.1723	0.003558	0.342033	0.314671	0.39496	0.077683	
1	Cargo Apro	Clearing an	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Concrete P	Air Compre	Diesel	100	0.43	1.376676	2.284886	589.6476	0.003374	0.205107	0.188698	0.238056	0.268937	
1	Cargo Apro	Concrete P	Concrete S	Diesel	40	0.59	0.678442	3.483034	595.6	0.003185	0.10015	0.092138	0.183824	0.004375	
1	Cargo Apro	Concrete P	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Concrete P	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Concrete P	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Concrete P	Rubber Tire	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Cargo Apro	Concrete P	Slip Form P	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495	
1	Cargo Apro	Concrete P	Surfacing E	Diesel	25	0.59	2.395309	4.457987	594.7242	0.004009	0.352929	0.324695	0.472896	0.005787	
1	Cargo Apro	Drainage -	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Drainage -	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098	
1	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Drainage -	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Drainage -	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Cargo Apro	Dust Contr	Water Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Excavation	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098	
1	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Cargo Apro	Excavation	Scraper	Diesel	600	0.59	0.7052	1.719861	536.3433	0.002997	0.107454	0.098858	0.160859	0.847351	
1	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Fencing	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Fencing	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Fencing	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Fencing	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Fencing	Skid Steer l	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Cargo Apro	Fencing	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Cargo Apro	Grading	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Grading	Grader	Diesel	300	0.59	0.310981	1.005164	536.3675	0.002755	0.052605	0.048397	0.15282	0.229828	
1	Cargo Apro	Grading	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Cargo Apro	Hydroseed	Hydroseed	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Hydroseed	Off-Road T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Lighting	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Lighting	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Cargo Apro	Lighting	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Lighting	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Lighting	Skid Steer l	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Cargo Apro	Lighting	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Cargo Apro	Markings	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Markings	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Markings	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Sealing/Fue	Distributing	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Sealing/Fue	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Soil Erosior	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Soil Erosior	Pumps	Diesel	11	0.43	4.464978	4.708033	588.3636	0.003966	0.447631	0.411821	0.661952	0.019081	
1	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Cargo Apro	Subbase Pl	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Subbase Pl	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Subbase Pl	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Cargo Apro	Topsoil Pla	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495	
1	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Asphalt Pla	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.395309	4.457987	594.7242	0.004009	0.352929	0.324695	0.472896	0.005787	
1	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.74819	8.968334	61.88836	26.04661	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
1	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	1.929616	3.464993	589.1723	0.003558	0.342033	0.314671	0.39496	0.077683	
1	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495	
1	Parking Lot	Curbing	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098	
1	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Drainage -	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Excavation	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098	
1	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Parking Lot	Excavation	Scraper	Diesel	600	0.59	0.7052	1.719861	536.3433	0.002997	0.107454	0.098858	0.160859	0.847351	
1	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Fencing	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Fencing	Skid Steer l	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Parking Lot	Fencing	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Parking Lot	Grading	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Grading	Grader	Diesel	300	0.59	0.310981	1.005164	536.3675	0.002755	0.052605	0.048397	0.15282	0.229828	
1	Parking Lot	Grading	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Parking Lot	Hydroseed	Hydroseed	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Hydroseed	Off-Road T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Markings	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Sidewalks	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	4.454042	4.505789	588.4782	0.003967	0.409876	0.377086	0.624107	0.007042	
1	Parking Lot	Soil Erosior	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	4.464978	4.708033	588.3636	0.003966	0.447631	0.411821	0.661952	0.019081	
1	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	

ACEIT Output - Modified Asphalt Application Rates

1	Parking Lot	Street Light	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Street Light	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Parking Lot	Street Light	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Street Light	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Street Light	Skid Steer L	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Parking Lot	Street Light	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Tree Planti	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Parking Lot	Tree Planti	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Rehabilitat	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495	
1	Rehabilitat	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Asphalt Pla	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Rehabilitat	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Asphalt Pla	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Rehabilitat	Asphalt Pla	Skid Steer L	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Rehabilitat	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.395309	4.457987	594.7242	0.004009	0.352929	0.324695	0.472896	0.005787	
1	Rehabilitat	Cold Millin	Cold Planer	Diesel	175	0.59	0.581022	1.348615	536.3128	0.002921	0.135016	0.124215	0.170888	0.241495	
1	Rehabilitat	Cold Millin	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Cold Millin	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Cold Millin	Sweepers	Diesel	175	0.43	0.343805	1.201601	530.5518	0.002842	0.081797	0.075253	0.162001	0.242332	
1	Rehabilitat	Cold Millin	Water Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Dust Contr	Water Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Rehabilitat	Excavation	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Excavation	Excavator	Diesel	175	0.59	0.380005	0.939556	536.3664	0.002766	0.079583	0.073216	0.153176	0.163098	
1	Rehabilitat	Excavation	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Excavation	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Rehabilitat	Excavation	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Rehabilitat	Grading	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Rehabilitat	Grading	Grader	Diesel	300	0.59	0.310981	1.005164	536.3675	0.002755	0.052605	0.048397	0.15282	0.229828	
1	Rehabilitat	Grading	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Rehabilitat	Hydroseed	Hydroseed	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Hydroseed	Off-Road T	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Lighting	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Lighting	Loader	Diesel	175	0.59	0.634868	1.479918	536.2944	0.002963	0.149449	0.137493	0.176953	0.26145	
1	Rehabilitat	Lighting	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Rehabilitat	Lighting	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Lighting	Skid Steer L	Diesel	75	0.21	4.902493	4.976789	693.0439	0.004298	0.731667	0.673133	0.975304	0.426681	
1	Rehabilitat	Lighting	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Rehabilitat	Markings	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Markings	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Rehabilitat	Markings	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Sealing Rar	Crack Clear	Diesel	40	0.59	0.678442	3.483034	595.6	0.003185	0.10015	0.092138	0.183824	0.004375	
1	Rehabilitat	Sealing Rar	Crack Filler	Diesel	100	0.43	0.272044	0.28198	589.9443	0.002847	0.011493	0.010574	0.140158	0	
1	Rehabilitat	Sealing Rar	Flatbed Tru	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Sealing Rar	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Rehabilitat	Sealing Rar	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Soil Erosior	Other Gene	Diesel	175	0.43	0.489977	1.797358	530.4648	0.00301	0.122123	0.112354	0.190729	0.31121	
1	Rehabilitat	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Soil Erosior	Pumps	Diesel	11	0.43	4.464978	4.708033	588.3636	0.003966	0.447631	0.411821	0.661952	0.019081	
1	Rehabilitat	Soil Erosior	Tractors/Lo	Diesel	100	0.21	4.557147	3.625291	693.7838	0.004159	0.649179	0.597244	0.731048	0.674321	
1	Rehabilitat	Subbase Pl	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Rehabilitat	Subbase Pl	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Subbase Pl	Roller	Diesel	100	0.59	1.727618	1.748739	595.5674	0.003291	0.224984	0.206986	0.194558	0.19449	
1	Rehabilitat	Topsoil Pla	Dozer	Diesel	175	0.59	0.492297	1.155007	536.339	0.002852	0.111014	0.102133	0.162233	0.21312	
1	Rehabilitat	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
1	Rehabilitat	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.266379	0.824782	536.3967	0.002684	0.034262	0.031521	0.143202	0.333619	
2	Building - 1	Concrete F	Backhoe	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Building - 1	Concrete F	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317	
2	Building - 1	Concrete F	Concrete R	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Concrete F	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848	
2	Building - 1	Concrete F	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326	
2	Building - 1	Concrete F	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Concrete F	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Constructic	Survey Cre	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Constructic	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Exterior W	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326	
2	Building - 1	Exterior W	Generator	Diesel	40	0.43	1.287109	4.156952	589.3385	0.003484	0.248591	0.228704	0.340077	0.055245	
2	Building - 1	Exterior W	Grout Mixe	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	0.999879	
2	Building - 1	Exterior W	Grout Whe	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Exterior W	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.207786	
2	Building - 1	Exterior W	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Exterior W	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Exterior W	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701	
2	Building - 1	Interior Bui	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326	
2	Building - 1	Interior Bui	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.207786	
2	Building - 1	Interior Bui	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Interior Bui	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Roofing	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326	
2	Building - 1	Roofing	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.207786	
2	Building - 1	Roofing	Material De	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Roofing	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Roofing	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701	
2	Building - 1	Security &	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326	
2	Building - 1	Security &	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Structural S	90 Ton Cra	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701	
2	Building - 1	Structural S	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317	
2	Building - 1	Structural S	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Structural S	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.024326	
2	Building - 1	Structural S	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Structural S	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Building - 1	Structural S	Trowel Ma	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	0.999879	
2	Building - 1	Structural S	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.293701	
2	Cargo Apro	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.04661	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	Cargo Apro	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239501	589.2407	0.003513	0.318043	0.2926	0.372367	0.071326	
2	Cargo Apro	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Concrete P	Air Compre	Diesel	100	0.43	1.240752	2.039629	589.6911	0.00331	0.181569	0.167043	0.223713	0.232417	
2	Cargo Apro	Concrete P	Concrete S	Diesel	40	0.59	0.600487	3.398114	595.6246	0.003128	0.085838	0.078971	0.175701	0.0035	
2	Cargo Apro	Concrete P	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Concrete P	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Apro	Concrete P	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Concrete P	Rubber Tire	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Cargo Apro	Concrete P	Slip Form P	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.201391	
2	Cargo Apro	Concrete P	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7254	0.004009	0.353033	0.32479	0.472476	0.004629	
2	Cargo Apro	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848	
2	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Drainage -	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Cargo Apro	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848	
2	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Cargo Apro	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.726609	
2	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Apro	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Apro	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Fencing	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181	
2	Cargo Apro	Fencing	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Cargo Apro	Grading	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Apro	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.3751	0.002726	0.045102	0.041494	0.150319	0.188599	
2	Cargo Apro	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Cargo Apro	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Lighting	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Lighting	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Cargo Apro	Lighting	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Apro	Lighting	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Lighting	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181	

ACEIT Output - Modified Asphalt Application Rates

2	Cargo Apro	Lighting	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Cargo Apro	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Apro	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Sealing/Fue	Distributing	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Sealing/Fue	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317	
2	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Cargo Apro	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Apro	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Cargo Apro	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.201391	
2	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Asphalt Pla	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Parking Lot	Asphalt Pla	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181	
2	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7254	0.004009	0.353033	0.32479	0.472476	0.004629	
2	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.04661	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
2	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239501	589.2407	0.003513	0.318043	0.2926	0.372367	0.071326	
2	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.201391	
2	Parking Lot	Curbing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848	
2	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Drainage -	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3744	0.002734	0.066854	0.061505	0.150542	0.132848	
2	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Parking Lot	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.726609	
2	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Fencing	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181	
2	Parking Lot	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Parking Lot	Grading	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.3751	0.002726	0.045102	0.041494	0.150319	0.188599	
2	Parking Lot	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Parking Lot	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Sidewalks	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	4.454262	4.474392	588.4964	0.003967	0.399923	0.367929	0.618084	0.005931	
2	Parking Lot	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.016317	
2	Parking Lot	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Parking Lot	Street Light	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Street Light	Loader	Diesel	175	0.59	0.556507	1.29822	536.3129	0.002903	0.127435	0.11724	0.170829	0.219589	
2	Parking Lot	Street Light	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Street Light	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Street Light	Skid Steer I	Diesel	75	0.21	4.603312	4.825325	693.2528	0.004246	0.680202	0.625786	0.906351	0.39181	
2	Parking Lot	Street Light	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
2	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5948	0.003225	0.190777	0.175515	0.185521	0.163195	
2	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005192	536.3517	0.002806	0.093646	0.086154	0.158062	0.175603	
2	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Tree Planti	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.267669	
2	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.271113	
2	Parking Lot	Tree Planti	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.612546	
3	Building - 1	Concrete F	Backhoe	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Building - 1	Concrete F	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Building - 1	Concrete F	Concrete R	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Concrete F	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Building - 1	Concrete F	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797	
3	Building - 1	Concrete F	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Concrete F	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Constructic	Survey Cre	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Constructic	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Exterior W	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797	
3	Building - 1	Exterior W	Generator	Diesel	40	0.43	1.287109	4.156952	589.3385	0.003484	0.248591	0.228704	0.340077	0.054044	
3	Building - 1	Exterior W	Grout Mixe	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	1.331361	
3	Building - 1	Exterior W	Grout Whe	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Exterior W	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.203268	
3	Building - 1	Exterior W	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Exterior W	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Exterior W	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069	
3	Building - 1	Interior Bui	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797	
3	Building - 1	Interior Bui	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.203268	
3	Building - 1	Interior Bui	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Interior Bui	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Roofing	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797	
3	Building - 1	Roofing	Man Lift	Diesel	75	0.21	4.213269	4.917514	693.4284	0.004244	0.583163	0.53651	0.848391	0.203268	
3	Building - 1	Roofing	Material De	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Roofing	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Roofing	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069	
3	Building - 1	Security &	High Lift	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797	
3	Building - 1	Security &	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Structural S	90 Ton Cra	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069	
3	Building - 1	Structural S	Concrete P	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Building - 1	Structural S	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Structural S	Fork Truck	Diesel	100	0.59	0.48677	0.444772	595.7298	0.002903	0.025741	0.023682	0.140933	0.023797	
3	Building - 1	Structural S	Tool Truck	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Structural S	Tractor Tra	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Building - 1	Structural S	Trowel Ma	Diesel	600	0.59	1.07699	2.518518	536.2292	0.003119	0.153491	0.141211	0.198485	1.331361	
3	Building - 1	Structural S	Truck Towe	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069	
3	Cargo Apro	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Cargo Apro	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401	
3	Cargo Apro	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Concrete P	Air Compre	Diesel	100	0.43	1.240752	2.039629	589.6911	0.00331	0.181569	0.167043	0.223713	0.227364	
3	Cargo Apro	Concrete P	Concrete S	Diesel	40	0.59	0.600487	3.398114	595.6246	0.003128	0.085838	0.078971	0.175701	0.004661	
3	Cargo Apro	Concrete P	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Concrete P	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Concrete P	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Concrete P	Rubber Tire	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Cargo Apro	Concrete P	Slip Form P	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157	
3	Cargo Apro	Concrete P	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164	
3	Cargo Apro	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Cargo Apro	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Cargo Apro	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	

ACEIT Output - Modified Asphalt Application Rates

3	Cargo Apro	Drainage -	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Cargo Apro	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Cargo Apro	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Cargo Apro	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495	
3	Cargo Apro	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Fencing	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Cargo Apro	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Cargo Apro	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124	
3	Cargo Apro	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Cargo Apro	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Lighting	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Lighting	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Cargo Apro	Lighting	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Lighting	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Lighting	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Cargo Apro	Lighting	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Cargo Apro	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Sealing/Fue	Distributing	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Sealing/Fue	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Sealing/Fue	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Cargo Apro	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Cargo Apro	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Cargo Apro	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Cargo Apro	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Cargo Apro	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Cargo Apro	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Drainage S	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Drainage S	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Drainage S	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Drainage S	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Drainage S	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Drainage S	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Drainage S	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Drainage S	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Drainage S	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Drainage S	Drainage St	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Drainage St	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Drainage S	Drainage St	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Drainage S	Drainage St	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Drainage S	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Drainage S	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Drainage S	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Drainage S	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Drainage S	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Fuel Tanks	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401	
3	Fuel Tanks	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Concrete P	Air Compre	Diesel	100	0.43	1.240752	2.039629	589.6911	0.00331	0.181569	0.167043	0.223713	0.227364	
3	Fuel Tanks	Concrete P	Concrete S	Diesel	40	0.59	0.600487	3.398114	595.6246	0.003128	0.085838	0.078971	0.175701	0.004661	
3	Fuel Tanks	Concrete P	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Concrete P	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Concrete P	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Concrete P	Rubber Tire	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Fuel Tanks	Concrete P	Slip Form P	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157	
3	Fuel Tanks	Concrete P	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164	
3	Fuel Tanks	Constructic	Crane	Diesel	300	0.43	0.278811	1.263221	530.5504	0.002829	0.055159	0.050746	0.162484	0.391069	
3	Fuel Tanks	Constructic	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Constructic	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Fuel Tanks	Drainage	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Drainage	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Drainage	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Fuel Tanks	Drainage	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Drainage	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Drainage	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Fuel Tanks	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Fuel Tanks	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Fuel Tanks	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495	
3	Fuel Tanks	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Fencing	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Fuel Tanks	Fencing	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Fuel Tanks	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124	
3	Fuel Tanks	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Fuel Tanks	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Hydroseed	Off-Road T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Fuel Tanks	Soil Erosior	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Fuel Tanks	Street Light	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Street Light	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Fuel Tanks	Street Light	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Fuel Tanks	Street Light	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Street Light	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Fuel Tanks	Street Light	Tractors/Lc	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Fuel Tanks	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Fuel Tanks	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Fuel Tanks	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Fuel Tanks	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157	
3	Parking Lot	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Asphalt Pla	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Asphalt Pla	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Parking Lot	Asphalt Pla	Skid Steer l	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Parking Lot	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164	
3	Parking Lot	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Parking Lot	Clearing an	Chipper/St	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401	
3	Parking Lot	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Curbing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Curbing	Curb/Gutte	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157	
3	Parking Lot	Curbing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Curbing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	

ACEIT Output - Modified Asphalt Application Rates

3	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Parking Lot	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Parking Lot	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Drainage -	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Parking Lot	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Parking Lot	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Parking Lot	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495	
3	Parking Lot	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Parking Lot	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Fencing	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Parking Lot	Fencing	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Parking Lot	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Parking Lot	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124	
3	Parking Lot	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Parking Lot	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Hydroseed	Off-Road Ty	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Sidewalks	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Sidewalks	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Sidewalks	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Sidewalks	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Parking Lot	Sidewalks	Vibratory C	Diesel	6	0.43	4.454262	4.474392	588.4964	0.003967	0.399923	0.367929	0.618083	0.007897	
3	Parking Lot	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Parking Lot	Soil Erosior	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Parking Lot	Street Light	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Street Light	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Parking Lot	Street Light	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Street Light	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Street Light	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Parking Lot	Street Light	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Parking Lot	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Parking Lot	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Parking Lot	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Parking Lot	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Tree Planti	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Tree Planti	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Parking Lot	Tree Planti	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Parking Lot	Tree Planti	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Taxiways	Asphalt Pla	Asphalt Pa	Diesel	175	0.59	0.508949	1.176264	536.3291	0.002866	0.11466	0.105488	0.165514	0.268157	
3	Taxiways	Asphalt Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Asphalt Pla	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Asphalt Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Asphalt Pla	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Taxiways	Asphalt Pla	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Taxiways	Asphalt Pla	Surfacing E	Diesel	25	0.59	2.38723	4.458634	594.7255	0.004009	0.353033	0.32479	0.472475	0.006164	
3	Taxiways	Clearing an	Chain Saw	Diesel	11	0.7	293.535	1.322993	685.9964	0.140192	9.748189	8.968334	61.88836	26.30746	*** GASOLINE DATA USED. DIESEL DATA NOT AVAILABLE ***
3	Taxiways	Clearing an	Chipper/Sti	Diesel	100	0.43	1.813608	3.239502	589.2408	0.003513	0.318043	0.2926	0.372368	0.46401	
3	Taxiways	Clearing an	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Drainage -	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Drainage -	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Taxiways	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Taxiways	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Drainage -	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Taxiways	Drainage -	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Drainage -	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Taxiways	Drainage -	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Drainage -	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Drainage -	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Taxiways	Dust Contr	Water Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Taxiways	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Excavation	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Excavation	Excavator	Diesel	175	0.59	0.336129	0.82038	536.3745	0.002734	0.066854	0.061505	0.150542	0.17689	
3	Taxiways	Excavation	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Excavation	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Taxiways	Excavation	Scraper	Diesel	600	0.59	0.625128	1.537038	536.3531	0.002939	0.09397	0.086452	0.157595	0.967495	
3	Taxiways	Excavation	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Fencing	Concrete T	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Fencing	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Fencing	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Fencing	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Fencing	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Taxiways	Fencing	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Taxiways	Grading	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Grading	Grader	Diesel	300	0.59	0.277031	0.87973	536.375	0.002726	0.045102	0.041494	0.150319	0.251124	
3	Taxiways	Grading	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Taxiways	Hydroseed	Hydroseed	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Hydroseed	Off-Road Ty	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Lighting	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Lighting	Loader	Diesel	175	0.59	0.556507	1.29822	536.313	0.002903	0.127435	0.11724	0.170829	0.292387	
3	Taxiways	Lighting	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Lighting	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Lighting	Skid Steer L	Diesel	75	0.21	4.603312	4.825325	693.2529	0.004246	0.680202	0.625786	0.906351	0.521704	
3	Taxiways	Lighting	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Taxiways	Markings	Flatbed Tru	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Markings	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Markings	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Soil Erosior	Other Gene	Diesel	175	0.43	0.436835	1.599111	530.4876	0.002949	0.107246	0.098666	0.183196	0.26185	
3	Taxiways	Soil Erosior	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Soil Erosior	Pumps	Diesel	11	0.43	4.462039	4.65103	588.3964	0.003966	0.432583	0.397976	0.65112	0.015963	
3	Taxiways	Soil Erosior	Tractors/Lo	Diesel	100	0.21	4.263726	3.349503	693.9527	0.004099	0.598567	0.550681	0.675323	0.815618	
3	Taxiways	Subbase Pl	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Subbase Pl	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Subbase Pl	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Subbase Pl	Roller	Diesel	100	0.59	1.515644	1.52762	595.5947	0.003225	0.190777	0.175515	0.185521	0.217298	
3	Taxiways	Topsoil Pla	Dozer	Diesel	175	0.59	0.431537	1.005191	536.3516	0.002806	0.093646	0.086154	0.158062	0.233819	
3	Taxiways	Topsoil Pla	Dump Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	
3	Taxiways	Topsoil Pla	Pickup Truc	Diesel	600	0.59	0.243052	0.726558	536.399	0.002666	0.029799	0.027415	0.142438	0.360993	

Emission Factors: On-Road (from MOVES)

Scenario ID	Project Typ	Equipment	Fuel Type	Roadway T	CO(g/mi)	NOx(g/mi)	CO2(g/mi)	SO2(g/mi)	PM10(g/mi	PM2.5(g/m	CH4(g/mi)	N2O(g/mi)	VOC(g/mi)	RV CO(g/ve	RV NOx(g/v	RV CO2(g/v	RV SO2(g/v	RV PM10(g	RV PM2.5(g	RV VOC(g/v	RP VOC(g/veh-day)
1	Cargo Apro	Asphalt 18	Diesel	Urban Unre	0.458112	1.864489	2328.796	0.015936	0.037545	0.036419	0.087838	0.072776	0.003464	26.27206	8.942973	459.7138	0.003146	0.000227	0.00022	6.657037	0
1	Cargo Apro	Cement Mi	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Cargo Apro	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Cargo Apro	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Cargo Apro	Passenger	Gasoline	Urban Unre	2.627713	0.075724	314.7649	0.004973	0.013122	0.012083	0.047792	0.004251	0.001668	139.2024	2.378925	618.3101	0.00977	0.129441	0.119191	5.333499	0.454486
1	Parking Lot	Asphalt 18	Diesel	Urban Unre	0.458112	1.864489	2328.796	0.015936	0.037545	0.036419	0.087838	0.072776	0.003464	26.27206	8.942973	459.7138	0.003146	0.000227	0.00022	6.657037	0
1	Parking Lot	Cement Mi	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Parking Lot	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Parking Lot	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Parking Lot	Passenger	Gasoline	Urban Unre	2.627713	0.075724	314.7649	0.004973	0.013122	0.012083	0.047792	0.004251	0.001668	139.2024	2.378925	618.3101	0.00977	0.129441	0.119191	5.333499	0.454486
1	Rehabilitat	Asphalt 18	Diesel	Urban Unre	0.458112	1.864489	2328.796	0.015936	0.037545	0.036419	0.087838	0.072776	0.003464	26.27206	8.942973	459.7138	0.003146	0.000227	0.00022	6.657037	0
1	Rehabilitat	Cement Mi	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Rehabilitat	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Rehabilitat	Dump Truc	Diesel	Urban Unre	0.405184	1.116747	1249.196	0.008549	0.017067	0.016556	0.065908	0.07126	0.003464	26.83968	8.754007	447.8772	0.003065	0.000221	0.000214	2.01925	0
1	Rehabilitat	Passenger	Gasoline	Urban Unre	2.627713	0.075724	314.7649	0.004973	0.013122	0.012083	0.047792	0.004251	0.001668	139.2024	2.378925	618.3101	0.00977	0.129441	0.119191	5.333499	0.454486
2	Building - 1	Cement Mi	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Building - 1	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Building - 1	Passenger	Gasoline	Urban Unre	2.674442	0.141116	353.9019	0.005592	0.013076	0.012041	0.060686	0.004278	0.001798	148.6489	3.430025	705.6336	0.01115	0.155753	0.143419	7.744363	0.715377
2	Building - 1	Tractor Tra	Diesel	Urban Unre	1.404516	5.278901	2328.799	0.016519	0.248141	0.240705	0.290476	0.065585	0.003463	26.30976	8.945107	456.9505	0.003422	0.041797	0.040545	6.918896	0
2	Cargo Apro	Asphalt 18	Diesel	Urban Unre	1.404516	5.278901	2328.799	0.016519	0.248141	0.240705	0.290476	0.065585	0.003463	26.30976	8.945107	456.9505	0.003422	0.041797	0.040545	6.918896	0
2	Cargo Apro	Cement Mi	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0

ACEIT Output - Modified Asphalt Application Rates

2	Cargo Apro	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Cargo Apro	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Cargo Apro	Passenger	Gasoline	Urban Unre	2.674442	0.141116	353.9019	0.005592	0.013076	0.012041	0.060686	0.004278	0.001798	148.6489	3.430025	705.6336	0.01115	0.155753	0.143419	7.744363	0.715377
2	Parking Lot	Asphalt 18	Diesel	Urban Unre	1.404516	5.278901	2328.799	0.016519	0.248141	0.240705	0.290476	0.065585	0.003463	26.30976	8.945107	456.9505	0.003422	0.041797	0.040545	6.918896	0
2	Parking Lot	Cement Mi	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	2.343332	1249.195	0.008762	0.084098	0.081578	0.220011	0.069215	0.003463	26.86514	8.755405	446.1589	0.003243	0.026753	0.025951	2.725008	0
2	Parking Lot	Passenger	Gasoline	Urban Unre	2.674442	0.141116	353.9019	0.005592	0.013076	0.012041	0.060686	0.004278	0.001798	148.6489	3.430025	705.6336	0.01115	0.155753	0.143419	7.744363	0.715377
3	Building - 1	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Building - 1	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Building - 1	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Building - 1	Tractor Tra	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Cargo Apro	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Cargo Apro	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Cargo Apro	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Cargo Apro	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Cargo Apro	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Drainage S	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Fuel Tanks	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Fuel Tanks	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Fuel Tanks	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Fuel Tanks	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Fuel Tanks	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Parking Lot	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Parking Lot	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Parking Lot	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Parking Lot	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0
3	Taxiways	Asphalt 18	Diesel	Urban Unre	1.404515	4.297013	2510.811	0.017808	0.248234	0.240795	0.293172	0.065585	0.003463	22.5413	0.393691	294.8319	0.002208	0.041709	0.04046	5.783977	0
3	Taxiways	Cement Mi	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Taxiways	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Taxiways	Dump Truc	Diesel	Urban Unre	0.8655	1.907373	1376.732	0.009656	0.084163	0.081641	0.221405	0.069215	0.003463	23.27413	0.144424	280.9842	0.002043	0.026666	0.025867	0.626734	0
3	Taxiways	Passenger	Gasoline	Urban Unre	2.159452	0.148745	385.7651	0.005411	0.004308	0.003967	0.063516	0.004531	0.001798	26.70905	2.276736	306.4081	0.004298	0.033916	0.03123	5.700089	0

Fugitive Emissions (Emission Factors from Various Sources including AP-42)

Scenario ID	Project	Fugitive Ty	Variable	Default Val	Units	User Value
1	Cargo Apro	Concrete N	V = Volume	4948.8	yd3	
1	Cargo Apro	Concrete N	PM10 = 0.0	183.1	lbs	
1	Cargo Apro	Material M	s = Surface	0.043	fraction	
1	Cargo Apro	Material M	Wt. = Mear	32	tons	
1	Cargo Apro	Material M	VMT = Veh	3310.9	miles	
1	Cargo Apro	Material M	PM10 = 1.5	90.7	lbs	
1	Cargo Apro	Material M	sL = Road s	0.1	g/m3	
1	Cargo Apro	Material M	Wt. = Mear	32	tons	
1	Cargo Apro	Material M	VMT = Veh	3010	miles	
1	Cargo Apro	Material M	PM10 = 0.0	27.9	lbs	
1	Cargo Apro	Unstabilize	A = Area af	2.456	acres	
1	Cargo Apro	Unstabilize	TPConv = T	0.5	fraction	
1	Cargo Apro	Unstabilize	CE = Contro	0.63	fraction	
1	Cargo Apro	Unstabilize	t = year (e.g	0.167	years	
1	Cargo Apro	Unstabilize	PM10 = 0.3	0	lbs	
1	Cargo Apro	Soil Handlin	u = Wind sp	5	mph	
1	Cargo Apro	Soil Handlin	m = Moistu	0.25	fraction	
1	Cargo Apro	Soil Handlin	T = Mass of	2942.5	tons	
1	Cargo Apro	Soil Handlin	PM10 = T x	60.6	lbs	
1	Parking Lot	Asphalt Dri	A = Area of	13517	m2	
1	Parking Lot	Asphalt Dri	AR = Applic	1.811	l/m2	0.651
1	Parking Lot	Asphalt Dri	VD = Volum	0.35	fraction	
1	Parking Lot	Asphalt Dri	EF = Mass f	0.7	fraction	
1	Parking Lot	Asphalt Dri	D = Density	1.8	lbs/l	
1	Parking Lot	Asphalt Dri	VOC = A x A	10795.3	lbs	3880.61
1	Parking Lot	Asphalt Stc	T = Mass of	1758.5	tons	
1	Parking Lot	Asphalt Stc	PM10 = (0.(	48.2	lbs	
1	Parking Lot	Asphalt Stc	CO = (0.4 +	704.1	lbs	
1	Parking Lot	Asphalt Stc	NOx = (0.02	44	lbs	
1	Parking Lot	Asphalt Stc	SOx = (0.00	8.089	lbs	
1	Parking Lot	Asphalt Stc	VOC = (0.0(	21.8	lbs	
1	Parking Lot	Material M	s = Surface	0.043	fraction	
1	Parking Lot	Material M	Wt. = Mear	32	tons	
1	Parking Lot	Material M	VMT = Veh	4347.7	miles	
1	Parking Lot	Material M	PM10 = 1.5	119.1	lbs	
1	Parking Lot	Material M	sL = Road s	0.1	g/m3	
1	Parking Lot	Material M	Wt. = Mear	32	tons	
1	Parking Lot	Material M	VMT = Veh	3870	miles	
1	Parking Lot	Material M	PM10 = 0.0	35.9	lbs	
1	Parking Lot	Soil Handlin	u = Wind sp	5	mph	
1	Parking Lot	Soil Handlin	m = Moistu	0.25	fraction	
1	Parking Lot	Soil Handlin	T = Mass of	4001.3	tons	
1	Parking Lot	Soil Handlin	PM10 = T x	82.4	lbs	
1	Parking Lot	Unstabilize	A = Area af	3.34	acres	
1	Parking Lot	Unstabilize	TPConv = T	0.5	fraction	
1	Parking Lot	Unstabilize	CE = Contro	0.63	fraction	
1	Parking Lot	Unstabilize	t = year (e.g	0.167	years	
1	Parking Lot	Unstabilize	PM10 = 0.3	0	lbs	
1	Rehabilitat	Asphalt Dri	A = Area of	85351.9	m2	
1	Rehabilitat	Asphalt Dri	AR = Applic	1.811	l/m2	0.555
1	Rehabilitat	Asphalt Dri	VD = Volum	0.35	fraction	
1	Rehabilitat	Asphalt Dri	EF = Mass f	0.7	fraction	
1	Rehabilitat	Asphalt Dri	D = Density	1.8	lbs/l	
1	Rehabilitat	Asphalt Dri	VOC = A x A	68166.4	lbs	20890.3
1	Rehabilitat	Asphalt Stc	T = Mass of	11103.8	tons	
1	Rehabilitat	Asphalt Stc	PM10 = (0.(	304.5	lbs	
1	Rehabilitat	Asphalt Stc	CO = (0.4 +	4446	lbs	
1	Rehabilitat	Asphalt Stc	NOx = (0.02	277.6	lbs	
1	Rehabilitat	Asphalt Stc	SOx = (0.00	51.1	lbs	
1	Rehabilitat	Asphalt Stc	VOC = (0.0(	137.7	lbs	
1	Rehabilitat	Material M	s = Surface	0.043	fraction	
1	Rehabilitat	Material M	Wt. = Mear	32	tons	
1	Rehabilitat	Material M	VMT = Veh	23169.2	miles	
1	Rehabilitat	Material M	PM10 = 1.5	634.6	lbs	
1	Rehabilitat	Material M	sL = Road s	0.1	g/m3	
1	Rehabilitat	Material M	Wt. = Mear	32	tons	
1	Rehabilitat	Material M	VMT = Veh	22575	miles	
1	Rehabilitat	Material M	PM10 = 0.0	209.6	lbs	
1	Rehabilitat	Unstabilize	A = Area af	21.1	acres	
1	Rehabilitat	Unstabilize	TPConv = T	0.5	fraction	
1	Rehabilitat	Unstabilize	CE = Contro	0.63	fraction	
1	Rehabilitat	Unstabilize	t = year (e.g	0.167	years	
1	Rehabilitat	Unstabilize	PM10 = 0.3	0	lbs	
1	Rehabilitat	Soil Handlin	u = Wind sp	5	mph	
1	Rehabilitat	Soil Handlin	m = Moistu	0.25	fraction	
1	Rehabilitat	Soil Handlin	T = Mass of	25265.6	tons	
1	Rehabilitat	Soil Handlin	PM10 = T x	520.1	lbs	
2	Building - 1	Concrete N	V = Volume	4625	yd3	
2	Building - 1	Concrete N	PM10 = 0.0	171.1	lbs	
2	Building - 1	Material M	sL = Road s	0.1	g/m3	
2	Building - 1	Material M	Wt. = Mear	32	tons	
2	Building - 1	Material M	VMT = Veh	2600	miles	
2	Building - 1	Material M	PM10 = 0.0	24.1	lbs	
2	Building - 1	Material M	s = Surface	0.043	fraction	
2	Building - 1	Material M	Wt. = Mear	32	tons	
2	Building - 1	Material M	VMT = Veh	2700	miles	
2	Building - 1	Material M	PM10 = 1.5	73.9	lbs	
2	Cargo Apro	Concrete N	V = Volume	7423.1	yd3	
2	Cargo Apro	Concrete N	PM10 = 0.0	274.7	lbs	
2	Cargo Apro	Material M	s = Surface	0.043	fraction	
2	Cargo Apro	Material M	Wt. = Mear	32	tons	
2	Cargo Apro	Material M	VMT = Veh	4999.4	miles	
2	Cargo Apro	Material M	PM10 = 1.5	136.9	lbs	
2	Cargo Apro	Material M	sL = Road s	0.1	g/m3	
2	Cargo Apro	Material M	Wt. = Mear	32	tons	
2	Cargo Apro	Material M	VMT = Veh	4550	miles	
2	Cargo Apro	Material M	PM10 = 0.0	42.2	lbs	
2	Cargo Apro	Unstabilize	A = Area af	3.685	acres	
2	Cargo Apro	Unstabilize	TPConv = T	0.5	fraction	
2	Cargo Apro	Unstabilize	CE = Contro	0.63	fraction	
2	Cargo Apro	Unstabilize	t = year (e.g	0.25	years	
2	Cargo Apro	Unstabilize	PM10 = 0.3	0	lbs	
2	Cargo Apro	Soil Handlin	u = Wind sp	5	mph	
2	Cargo Apro	Soil Handlin	m = Moistu	0.25	fraction	
2	Cargo Apro	Soil Handlin	T = Mass of	4413.8	tons	
2	Cargo Apro	Soil Handlin	PM10 = T x	90.9	lbs	
2	Parking Lot	Asphalt Dri	A = Area of	20275.4	m2	
2	Parking Lot	Asphalt Dri	AR = Applic	1.811	l/m2	0.651
2	Parking Lot	Asphalt Dri	VD = Volum	0.35	fraction	
2	Parking Lot	Asphalt Dri	EF = Mass f	0.7	fraction	
2	Parking Lot	Asphalt Dri	D = Density	1.8	lbs/l	
2	Parking Lot	Asphalt Dri	VOC = A x A	16193	lbs	5820.88
2	Parking Lot	Asphalt Stc	T = Mass of	2637.7	tons	
2	Parking Lot	Asphalt Stc	PM10 = (0.(	72.3	lbs	
2	Parking Lot	Asphalt Stc	CO = (0.4 +	1056.1	lbs	
2	Parking Lot	Asphalt Stc	NOx = (0.02	65.9	lbs	

ACEIT Output - Modified Asphalt Application Rates

2	Parking Lot	Asphalt Stc	SOx = (0.00	12.1	lbs
2	Parking Lot	Asphalt Stc	VOC = (0.0	32.7	lbs
2	Parking Lot	Material M	s = Surface	0.043	fraction
2	Parking Lot	Material M	Wt. = Mear	32	tons
2	Parking Lot	Material M	VMT = Veh	6565.8	miles
2	Parking Lot	Material M	PM10 = 1.5	179.8	lbs
2	Parking Lot	Material M	sL = Road s	0.1	g/m3
2	Parking Lot	Material M	Wt. = Mear	32	tons
2	Parking Lot	Material M	VMT = Veh	5850	miles
2	Parking Lot	Material M	PM10 = 0.0	54.3	lbs
2	Parking Lot	Soil Handlir	u = Wind sp	5	mph
2	Parking Lot	Soil Handlir	m = Moistu	0.25	fraction
2	Parking Lot	Soil Handlir	T = Mass of	6001.9	tons
2	Parking Lot	Soil Handlir	PM10 = T x	123.5	lbs
2	Parking Lot	Unstabilize	A = Area af	5.01	acres
2	Parking Lot	Unstabilize	TPConv = T	0.5	fraction
2	Parking Lot	Unstabilize	CE = Contro	0.63	fraction
2	Parking Lot	Unstabilize	t = year (e.g	0.25	years
2	Parking Lot	Unstabilize	PM10 = 0.3	0	lbs
3	Building - 1	Concrete M	V = Volume	4625	yd3
3	Building - 1	Concrete M	PM10 = 0.0	171.1	lbs
3	Building - 1	Material M	sL = Road s	0.1	g/m3
3	Building - 1	Material M	Wt. = Mear	32	tons
3	Building - 1	Material M	VMT = Veh	3225	miles
3	Building - 1	Material M	PM10 = 0.0	29.9	lbs
3	Building - 1	Material M	s = Surface	0.043	fraction
3	Building - 1	Material M	Wt. = Mear	32	tons
3	Building - 1	Material M	VMT = Veh	3325	miles
3	Building - 1	Material M	PM10 = 1.5	91.1	lbs
3	Cargo Apro	Concrete M	V = Volume	9885.9	yd3
3	Cargo Apro	Concrete M	PM10 = 0.0	365.8	lbs
3	Cargo Apro	Material M	s = Surface	0.043	fraction
3	Cargo Apro	Material M	Wt. = Mear	32	tons
3	Cargo Apro	Material M	VMT = Veh	7047.2	miles
3	Cargo Apro	Material M	PM10 = 1.5	193	lbs
3	Cargo Apro	Material M	sL = Road s	0.1	g/m3
3	Cargo Apro	Material M	Wt. = Mear	32	tons
3	Cargo Apro	Material M	VMT = Veh	6450	miles
3	Cargo Apro	Material M	PM10 = 0.0	59.9	lbs
3	Cargo Apro	Unstabilize	A = Area af	4.907	acres
3	Cargo Apro	Unstabilize	TPConv = T	0.5	fraction
3	Cargo Apro	Unstabilize	CE = Contro	0.63	fraction
3	Cargo Apro	Unstabilize	t = year (e.g	0.5	years
3	Cargo Apro	Unstabilize	PM10 = 0.3	0	lbs
3	Cargo Apro	Soil Handlir	u = Wind sp	5	mph
3	Cargo Apro	Soil Handlir	m = Moistu	0.25	fraction
3	Cargo Apro	Soil Handlir	T = Mass of	5878.1	tons
3	Cargo Apro	Soil Handlir	PM10 = T x	121	lbs
3	Drainage S	Material M	s = Surface	0.043	fraction
3	Drainage S	Material M	Wt. = Mear	32	tons
3	Drainage S	Material M	VMT = Veh	141.1	miles
3	Drainage S	Material M	PM10 = 1.5	3.865	lbs
3	Drainage S	Material M	sL = Road s	0.1	g/m3
3	Drainage S	Material M	Wt. = Mear	32	tons
3	Drainage S	Material M	VMT = Veh	0	miles
3	Drainage S	Material M	PM10 = 0.0	0	lbs
3	Drainage S	Unstabilize	A = Area af	0.275	acres
3	Drainage S	Unstabilize	TPConv = T	0.5	fraction
3	Drainage S	Unstabilize	CE = Contro	0.63	fraction
3	Drainage S	Unstabilize	t = year (e.g	0.5	years
3	Drainage S	Unstabilize	PM10 = 0.3	0	lbs
3	Drainage S	Soil Handlir	u = Wind sp	5	mph
3	Drainage S	Soil Handlir	m = Moistu	0.25	fraction
3	Drainage S	Soil Handlir	T = Mass of	330	tons
3	Drainage S	Soil Handlir	PM10 = T x	6.793	lbs
3	Fuel Tanks	Concrete M	V = Volume	1919.4	yd3
3	Fuel Tanks	Concrete M	PM10 = 0.0	71	lbs
3	Fuel Tanks	Material M	s = Surface	0.043	fraction
3	Fuel Tanks	Material M	Wt. = Mear	32	tons
3	Fuel Tanks	Material M	VMT = Veh	2869.3	miles
3	Fuel Tanks	Material M	PM10 = 1.5	78.6	lbs
3	Fuel Tanks	Material M	sL = Road s	0.1	g/m3
3	Fuel Tanks	Material M	Wt. = Mear	32	tons
3	Fuel Tanks	Material M	VMT = Veh	2580	miles
3	Fuel Tanks	Material M	PM10 = 0.0	23.9	lbs
3	Fuel Tanks	Unstabilize	A = Area af	0.953	acres
3	Fuel Tanks	Unstabilize	TPConv = T	0.5	fraction
3	Fuel Tanks	Unstabilize	CE = Contro	0.63	fraction
3	Fuel Tanks	Unstabilize	t = year (e.g	0.5	years
3	Fuel Tanks	Unstabilize	PM10 = 0.3	0	lbs
3	Fuel Tanks	Soil Handlir	u = Wind sp	5	mph
3	Fuel Tanks	Soil Handlir	m = Moistu	0.25	fraction
3	Fuel Tanks	Soil Handlir	T = Mass of	1141.3	tons
3	Fuel Tanks	Soil Handlir	PM10 = T x	23.5	lbs
3	Parking Lot	Asphalt Dr	A = Area of	33792.4	m2
3	Parking Lot	Asphalt Dr	AR = Applic	1.811	l/m2	0.651
3	Parking Lot	Asphalt Dr	VD = Volum	0.35	fraction
3	Parking Lot	Asphalt Dr	EF = Mass f	0.7	fraction
3	Parking Lot	Asphalt Dr	D = Density	1.8	lbs/l
3	Parking Lot	Asphalt Dr	VOC = A x A	26988.3	lbs	9701.49
3	Parking Lot	Asphalt Stc	T = Mass of	4396.2	tons
3	Parking Lot	Asphalt Stc	PM10 = (0.4	120.5	lbs
3	Parking Lot	Asphalt Stc	CO = (0.4 +	1760.2	lbs
3	Parking Lot	Asphalt Stc	NOx = (0.02	109.9	lbs
3	Parking Lot	Asphalt Stc	SOx = (0.00	20.2	lbs
3	Parking Lot	Asphalt Stc	VOC = (0.0	54.5	lbs
3	Parking Lot	Material M	s = Surface	0.043	fraction
3	Parking Lot	Material M	Wt. = Mear	32	tons
3	Parking Lot	Material M	VMT = Veh	11511.7	miles
3	Parking Lot	Material M	PM10 = 1.5	315.3	lbs
3	Parking Lot	Material M	sL = Road s	0.1	g/m3
3	Parking Lot	Material M	Wt. = Mear	32	tons
3	Parking Lot	Material M	VMT = Veh	10320	miles
3	Parking Lot	Material M	PM10 = 0.0	95.8	lbs
3	Parking Lot	Soil Handlir	u = Wind sp	5	mph
3	Parking Lot	Soil Handlir	m = Moistu	0.25	fraction
3	Parking Lot	Soil Handlir	T = Mass of	10003.1	tons
3	Parking Lot	Soil Handlir	PM10 = T x	205.9	lbs
3	Parking Lot	Unstabilize	A = Area af	8.351	acres
3	Parking Lot	Unstabilize	TPConv = T	0.5	fraction
3	Parking Lot	Unstabilize	CE = Contro	0.63	fraction
3	Parking Lot	Unstabilize	t = year (e.g	0.5	years
3	Parking Lot	Unstabilize	PM10 = 0.3	0	lbs
3	Taxiways	Asphalt Dr	A = Area of	11194.5	m2
3	Taxiways	Asphalt Dr	AR = Applic	1.811	l/m2	0.651
3	Taxiways	Asphalt Dr	VD = Volum	0.35	fraction
3	Taxiways	Asphalt Dr	EF = Mass f	0.7	fraction
3	Taxiways	Asphalt Dr	D = Density	1.8	lbs/l
3	Taxiways	Asphalt Dr	VOC = A x A	8940.5	lbs	3213.84
3	Taxiways	Asphalt Stc	T = Mass of	1456.3	tons
3	Taxiways	Asphalt Stc	PM10 = (0.4	39.9	lbs
3	Taxiways	Asphalt Stc	CO = (0.4 +	583.1	lbs
3	Taxiways	Asphalt Stc	NOx = (0.02	36.4	lbs
3	Taxiways	Asphalt Stc	SOx = (0.00	6.699	lbs
3	Taxiways	Asphalt Stc	VOC = (0.0	18.1	lbs
3	Taxiways	Material M	s = Surface	0.043	fraction
3	Taxiways	Material M	Wt. = Mear	32	tons
3	Taxiways	Material M	VMT = Veh	4936.6	miles
3	Taxiways	Material M	PM10 = 1.5	135.2	lbs
3	Taxiways	Material M	sL = Road s	0.1	g/m3
3	Taxiways	Material M	Wt. = Mear	32	tons
3	Taxiways	Material M	VMT = Veh	4515	miles
3	Taxiways	Material M	PM10 = 0.0	41.9	lbs
3	Taxiways	Unstabilize	A = Area af	2.766	acres
3	Taxiways	Unstabilize	TPConv = T	0.5	fraction
3	Taxiways	Unstabilize	CE = Contro	0.63	fraction
3	Taxiways	Unstabilize	t = year (e.g	0.5	years
3	Taxiways	Unstabilize	PM10 = 0.3	0	lbs
3	Taxiways	Soil Handlir	u = Wind sp	5	mph
3	Taxiways	Soil Handlir	m = Moistu	0.25	fraction
3	Taxiways	Soil Handlir	T = Mass of	3313.8	tons
3	Taxiways	Soil Handlir	PM10 = T x	68.2	lbs

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ASSUMPTIONS

Emission factors were developed from the following models:

On-Road Vehicles: MOVES 2010b, revised January 2013

Non-Road Equipment: NONROAD2008a, July 2009

ACEIT Output - Modified Asphalt Application Rates

In addition to the overall project size dimensions (e.g., Length and width) provided by the user, an additional 10 ft length and 10 ft width is added to account for disturbance areas.

The number of employees is based on the higher of two methods: (1) number of equipment, and (2) multiply the project cost in million by 11.

The average employee travels 30 miles round-trip from home to construction site each day.

The average on-road material delivery round-trip distance per truck is 40 miles per day.

For calculating fugitive, re-entrained PM emissions from on-road and non-road material delivery and handling equipment, a nominal VMT of 5 miles is used for each vehicle per day.

In deriving emission factors from NONROAD, the horsepower for each equipment represents the most popular in each equipment category.

The total length of each modeled scenario is used to define the number of days associated with vehicle/equipment evaporative emissions.

The choice of location and season are assumed to adequately represent differences in fuel characteristics affecting emissions.

Only two seasons (Summer and Winter) are used to represent all seasons.

14 U.S. Counties are used to represent all other counties in the U.S. (all other counties are mapped to the 14).

The default methods assume that all construction equipment use diesel as well as heavy-duty on-road vehicles, while passenger vehicles (including motorcycles) use gasoline.

Fugitive emissions are only modeled for:

- Asphalt drying
- Asphalt storage and batching
- Concrete mixing/batching
- Soil handling
- Unstabilized land and wind erosion
- Material movement (unpaved roads)
- Material movement (paved roads)

On-Road vehicle speeds are not explicitly modeled. The associated emission factors for each modeled vehicle from MOVES represent averages over the driving cycles, the roadway type, and daily temperature variations.

The default equipment hours-of-use data are developed based on the overall size of the project provided by the user and activity rates based on expert engineering judgment.

Under the Construction Activity Type list (Activity Tab), when a choice between asphalt and concrete materials occurs, asphalt is always selected as default. To choose concrete, de-select the aphalt item and select the corresponding concrete item.

Two trips per day were assumed for each on-road material handling trucks.

Only CO_2, CH_4, and N_2O are used to represent greenhouse gas emissions. Other potential greenhouse gases including air conditioning refrigerants were not included.

The following equipment are always modeled using diesel emission factors since gasoline-based emission factors are not available:

- Asphalt Deliveries/Ten Wheelers
- Bulldozer
- Concrete Ready Mix Trucks
- Concrete Ready Trucks Mix for Cores
- Concrete Truck
- Crack Filler (Trailer Mounted)
- Delivery of Tanks (3)
- Distributing Tanker
- Dozer
- Dump Truck
- Dump Truck (12 cy)
- Excavator
- Excavator for U/G Services/Tanks
- Flat Bed or Dump Trucks
- Flatbed Truck
- Grader
- Grout Wheel Truck
- Hoist Equipment with 40 Ton Rig
- Hydralic Hammer
- Hydroseeder
- Line Painting Truck and Sprayer
- Material Deliveries
- Off-Road Truck
- Pickup Truck
- Scraper
- Seed Truck Spreader
- Small Dozer
- Survey Crew Trucks
- Ten Wheelers
- Ten Wheelers- Material Delivery
- Tool Truck
- Tractor Trailer- Equipment Delivery
- Tractor Trailer- Material Delivery
- Tractor Trailer- Steel Deliveries
- Tractor Trailer- Stone Delivery
- Tractor Trailer- Topsoil & Seed
- Tractor Trailer- Truck Delivery
- Tractor Trailer with Boom Hoist- Curbs Del & Place
- Tractor Trailer with Boom Hoist- Delivery
- Tractor Trailers- Rebar Deliveries
- Tractor Trailers Temp Fac.
- Truck for Topsoil & Seed Del&Spread
- Water Truck
- Excavator with Bucket
- Excavator with Hoe Ram

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Appendix B

U.S. Fish and Wildlife Service IPaC

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Chesapeake Bay Ecological Services Field Office
177 Admiral Cochrane Drive
Annapolis, MD 21401-7307
Phone: (410) 573-4599 Fax: (410) 266-9127
http://www.fws.gov/chesapeakebay/
http://www.fws.gov/chesapeakebay/endsppweb/ProjectReview/Index.html

In Reply Refer To:
Consultation Code: 05E2CB00-2018-SLI-1401
Event Code: 05E2CB00-2018-E-03029
Project Name: Midfield Improvements CATEX [1]

June 07, 2018

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. This species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

[1] *At the time MDOT MAA initiated ran the IPAC for the project, the MDOT MAA believed the project was to be environmentally reviewed using a Categorical Exclusion to fulfill NEPA requirements. In cooperation with the FAA, it was subsequently determined that a Re-Evaluation of the 1998 EA was a more appropriate means to fulfill NEPA requirements.*

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Wetlands

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Chesapeake Bay Ecological Services Field Office
177 Admiral Cochrane Drive
Annapolis, MD 21401-7307
(410) 573-4599

Project Summary

Consultation Code: 05E2CB00-2018-SLI-1401

Event Code: 05E2CB00-2018-E-03029

Project Name: Midfield Improvements CATEX

Project Type: TRANSPORTATION

Project Description: The Maryland Department of Transportation (MDOT) Maryland Aviation Administration (MAA) proposes to expand the existing Midfield Cargo Facility at BWI Marshall Airport with the following improvements: aircraft parking apron, truck staging and circulation, vehicular parking space, cargo building and GSE building, expand fuel facility and glycol collection area, construct taxiway connection, mill and overlay, and associated site infrastructure such as lighting and security fencing.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/39.17217775897785N76.68397420189656W

Counties: Anne Arundel, MD

Endangered Species Act Species

There is a total of 0 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Wetlands

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

FRESHWATER FORESTED/SHRUB WETLAND

- PFO1A

RIVERINE

- R4SBC

Appendix C

Coastal Resources

Subject: Coastal Consistency Request - CATEX for Midfield Improvements at BWI

From: Elder Ghigiarelli -MDE- <elder.ghigiarelli@maryland.gov>
Sent: Thursday, June 14, 2018 1:44 PM
To: Robin Bowie <rbowie@bwiairport.com>
Subject: Re: Coastal Consistency Request - CATEX for Midfield Improvements at BWI

Robin,

I am responding to your request for a Federal Consistency determination, pursuant to Section 307 of the Federal Coastal Zone Management Act of 1972, as amended (CZMA), for the proposed improvements to the Midfield Cargo area at BWI Marshall Airport. The proposed improvements include the following activities:

- Aircraft Parking Apron
- Cargo Processing Building
- Ground Support Equipment Building
- Truck Staging and Circulation
- Taxiway Connection
- Vehicular Parking Space
- Mill and Overlay of Existing Apron and Taxilanes
- Expansion of Existing Fuel Facility
- Expansion of Glycol Collection and Storage Area (and connection to existing sanitary sewer)

Your email notes that the project area is currently mowed and maintained, and that grading operations for the full development area were previously conducted as part of the construction following finalization of the EA for the *Proposed Expansion of Air Cargo Facilities* in 1998. In addition, the project will not impact wetlands, waterways, or forested areas. Finally, regarding stormwater management, stormwater management pond B6 was designed for the ultimate build-out of the Midfield Cargo area.

Based on these considerations, the proposed improvements to the Midfield Cargo area are consistent with the Maryland Coastal Zone Management Program, as required by Section 307 of the CZMA. Please note that this determination does not obviate the responsibility to obtain any other State approvals that may be necessary for the proposed activities.

If you have any questions, please contact me.

Elder

Elder Ghigiarelli, Jr.
Deputy Program Administrator
Maryland Federal Consistency Coordinator
Wetlands and Waterways Program
Water and Science Administration
Maryland Department of the Environment
Phone: (410) 537-3763
elder.ghigiarelli@maryland.gov

On Thu, Jun 7, 2018 at 1:44 PM, Robin Bowie <rbowie@bwiairport.com> wrote:

Hi, Elder:

Hope all is well with you!

MDOT MAA is conducting a Categorical Exclusion[1] for proposed improvements to the Midfield Cargo area. The proposed study area in relation to the airport property is illustrated on **Figure 1**. The list below and **Figure 2** show the proposed improvements, along with the water resources located in the vicinity.

- Aircraft Parking Apron
- Cargo Processing Building
- Ground Support Equipment (GSE) Building
- Truck Staging and Circulation
- Taxiway Connection
- Vehicular Parking Space
- Mill and Overlay of Existing Apron and Taxilanes
- Expansion of Existing Fuel Facility
- Expansion of Glycol Collection and Storage Area (with connection to existing sanitary sewer)

MDOT MAA is seeking a Coastal Zone Consistency determination from MDE for this project. This project will not affect any wetlands, waterways, surface waters, or forests. The study area is mowed/maintained, and grading operations for the full development area were conducted as part of the construction that occurred following the 1998 *Final Environmental Assessment (EA) for the Proposed Expansion of Air Cargo Facilities at BWI Marshall Airport*. The additional apron pavement will be constructed in Portland Cement Concrete (PCC) and incorporate trench drain facilities to capture stormwater runoff. Stormwater management Pond B6 was designed for the ultimate build out of the Midfield Cargo area. It is anticipated that storm drains will connect to the existing storm drain system to outfall into Pond B6. The apron trench drains will also include mechanical equipment to allow spent glycol diversion to the collection tanks. Water quality and quantity will be addressed during design to meet the MDE's Stormwater Management requirements for environmental site design to the maximum extent practicable.

Let me know if you need any additional information. Thank you!

Ms. Robin M. Bowie

Director, Office of Environmental Services

Maryland Department of Transportation Maryland Aviation Administration

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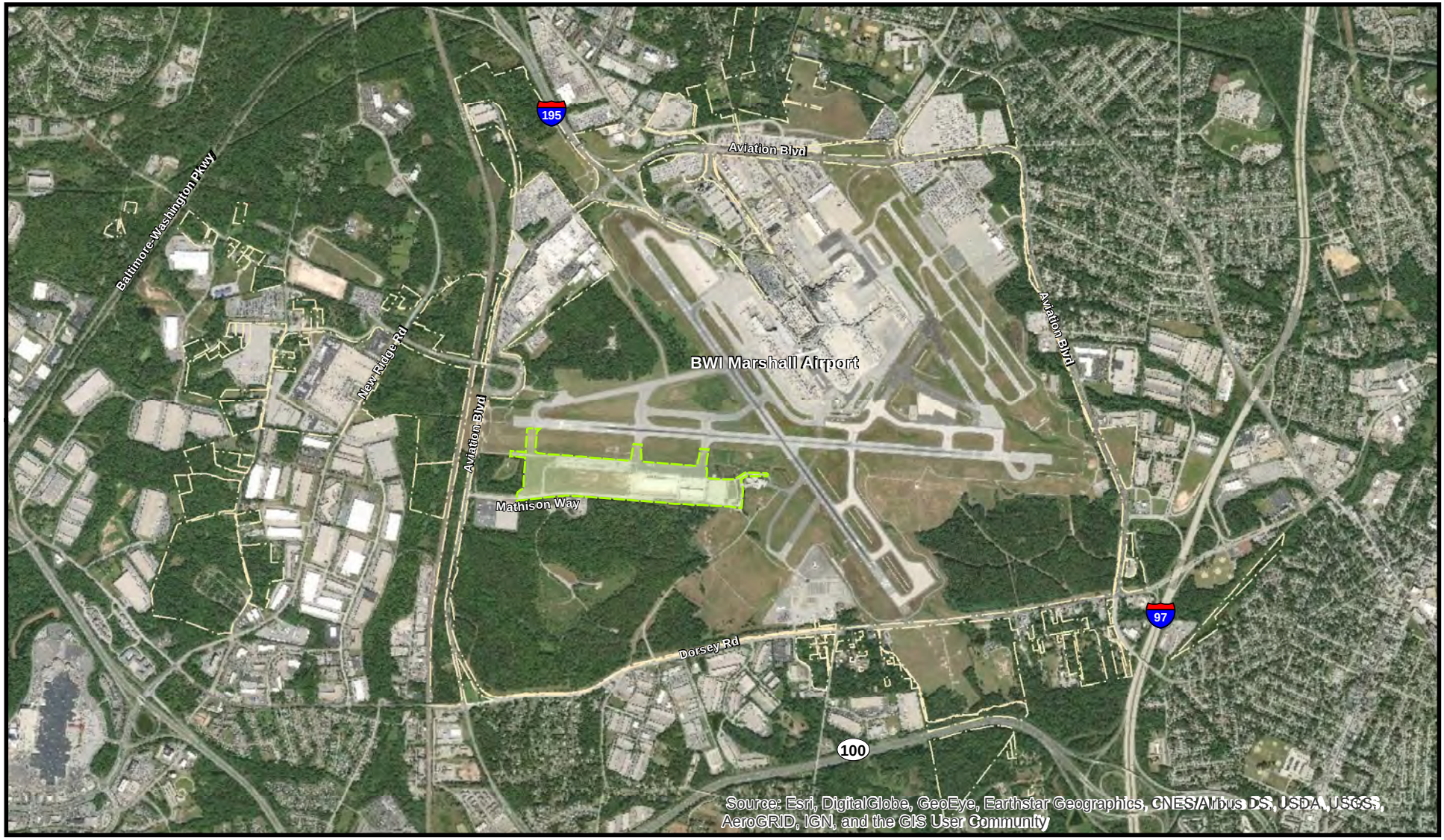
[1] *At the time MDOT MAA initiated coordination with MDE for the project, the MDOT MAA believed the project was to be environmentally reviewed using a Categorical Exclusion to fulfill NEPA requirements. In cooperation with the FAA, it was subsequently determined that a Re-Evaluation of the 1998 EA was a more appropriate means to fulfill NEPA requirements. Additionally, note that coordination with the MDE originally included a project that has since been eliminated from the Proposed Action (a proposed gravity pipe with glycol collection tanks).*

Midfield Improvements



LEGEND

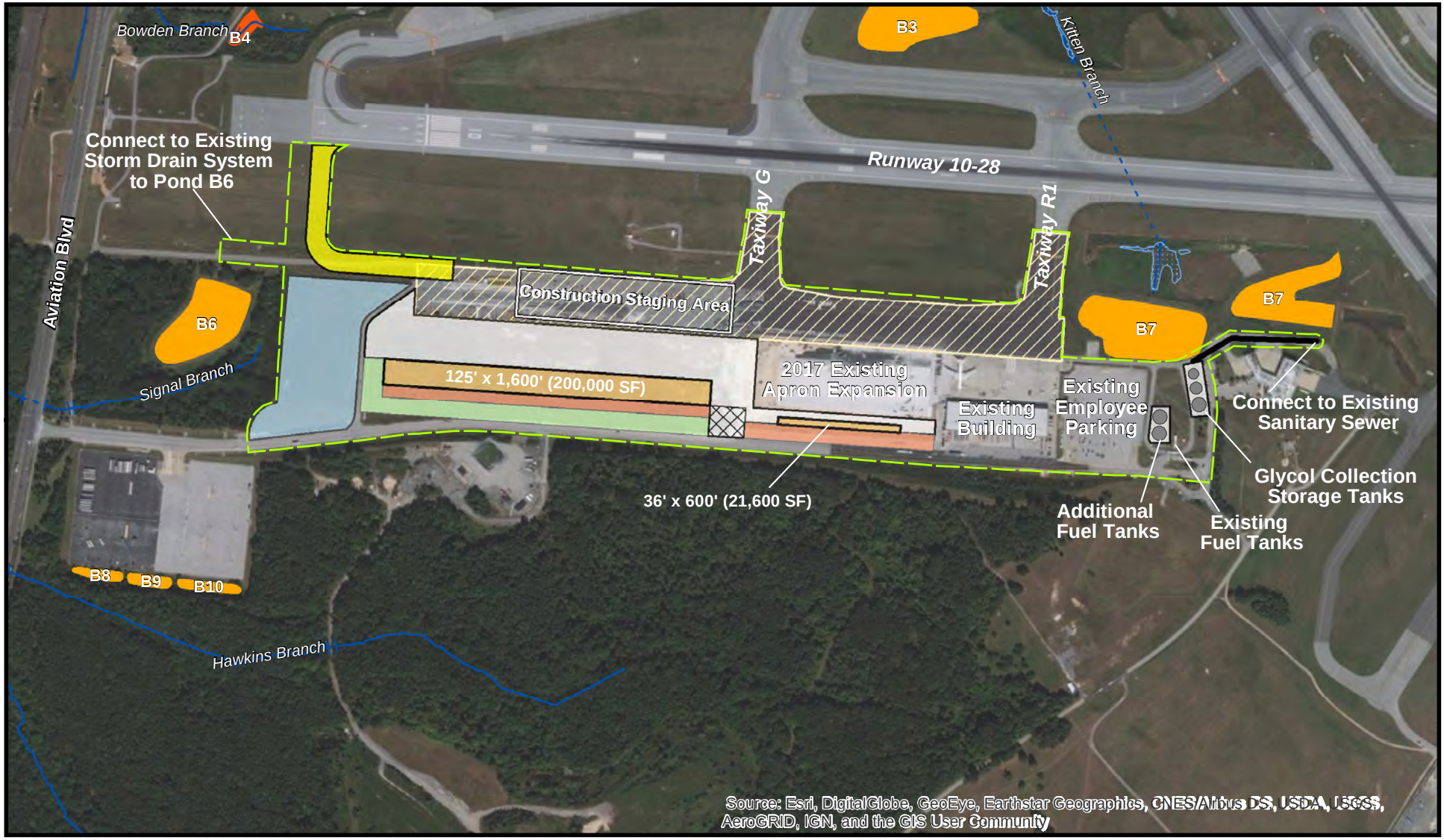
- Study Area
- Airport Property Boundary

Project Location
Figure 1

N

0 750 1,500 3,000 Feet

Midfield Improvements



LEGEND

- Study Area
- Proposed Apron Pavement (12.1 Acres)
- Proposed Building (221,600 SF)
- Proposed Truck Parking/Staging Area Pavement (7.6 Acres)
- Proposed Gravity Pipe
- Proposed Taxiway (2.8 Acres)
- Proposed Vehicle Parking (3.9 Acres)
- Proposed Vehicle Pavement (3.8 Acres)
- Proposed Truck Staging Area (0.6 Acres)
- Mill and Overlay (21.1 Acres)
- Stream
- Culverted Stream
- 100-Year Floodplain
- Stormwater Management Pond
- USACE Jurisdictional Pond

Proposed Action and Water Resources
Figure 2

N

0 175 350 700 Feet

Appendix D

Cultural Resources

Subject: FW: Midfield Cargo - MHT Coordination

From: Beth Cole - MHT <beth.cole@maryland.gov>
Date: 6/6/18 4:27 PM (GMT-05:00)
To: Robin Bowie <rbowie@bwiairport.com>
Subject: Re: Midfield Cargo - MHT Coordination

Robin,

The Maryland Historical Trust has reviewed the information submitted for the proposed gravity pipe and taxiway connection for effects on historic and archeological properties, pursuant to Section 106 of the National Historic Preservation Act and the Maryland Historical Trust Act of 1985. Based on the information provided, we concur with MDOT MAA's determination that these undertakings will have no effect on historic properties. Thank you for providing us this opportunity to comment.

Have a good day and hope all is well,

Beth

Beth Cole

Administrator, Project Review and Compliance
Maryland Historical Trust
Maryland Department of Planning
100 Community Place
Crownsville, MD 21032
beth.cole@maryland.gov / **410-697-9541**

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On Wed, Jun 6, 2018 at 12:22 PM, Robin Bowie <rbowie@bwiairport.com> wrote:

> Beth:
>
> MDOT MAA is conducting a Categorical Exclusion (CATEX)[1] for the proposed expansion of the existing Midfield Cargo Facility at BWI Marshall Airport (location shown on **Figure 1**). The improvements included in the Proposed Action are illustrated on **Figure 2**. Per the July 13, 2007 Memo between MHT and MAA, when project areas fall within areas designated by the HPP as "previously evaluated (and thus no additional study required)" or having "no probability of sites," the MAA is able to move forward with CATEX projects without further MHT coordination. As you can see in Figure 2, there are a couple of projects associated with the Midfield Cargo expansion that do not fall within the memo's

stipulations of “previously evaluated (and thus no additional study required)” or having “no probability of sites” as defined in the BWI Marshall Airport 1996 Historic Preservation Plan (HPP).

- A portion of the proposed **gravity pipe** from the glycol tanks to the existing sanitary sewer line is within Site 18AN1011 (associated with Friendship Cemetery) and it may lie just outside the “previously evaluated” area however this area has been disturbed previously as indicated by the existing roadway in this area. It is assumed that the new pipe would be constructed approximately 4-6’ below the surface (4' down on the west side near the proposed glycol tanks and 6' down to the east where it meets up with the existing sanitary sewer). The proposed pipe would be constructed along or underneath the existing roadway.

- The proposed **taxiway connection** is in an area with “moderate to low probability for prehistoric and historic sites” as defined in the 1996 HPP however this area was previously disturbed for grading purposes between Runway 10/28 and the apron edge with the construction of the initial midfield cargo. A maximum of 3.5’ of disturbance below the surface would be assumed for this project, with potential for 6-7’ below the surface in the location where a storm drain may be needed.

The proposed projects are in an area of the airport that is largely developed and actively used for cargo operations. MAA does not anticipate any impacts to historic resources, however if during construction, any unmarked burial sites, or prehistoric or historic artifacts are encountered, construction would stop and the MAA would follow the procedures established in the BWI Marshall Airport HPP. The MAA requests MHT’s concurrence that the projects do not have the potential to cause effects.

Please do not hesitate to call me if you’d like to discuss further or need additional information. Thank you so much!

Ms. Robin M. Bowie

Director, Office of Environmental Services

Maryland Department of Transportation Maryland Aviation Administration

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410-859-7082 (fax)

rbowie@bwiairport.com

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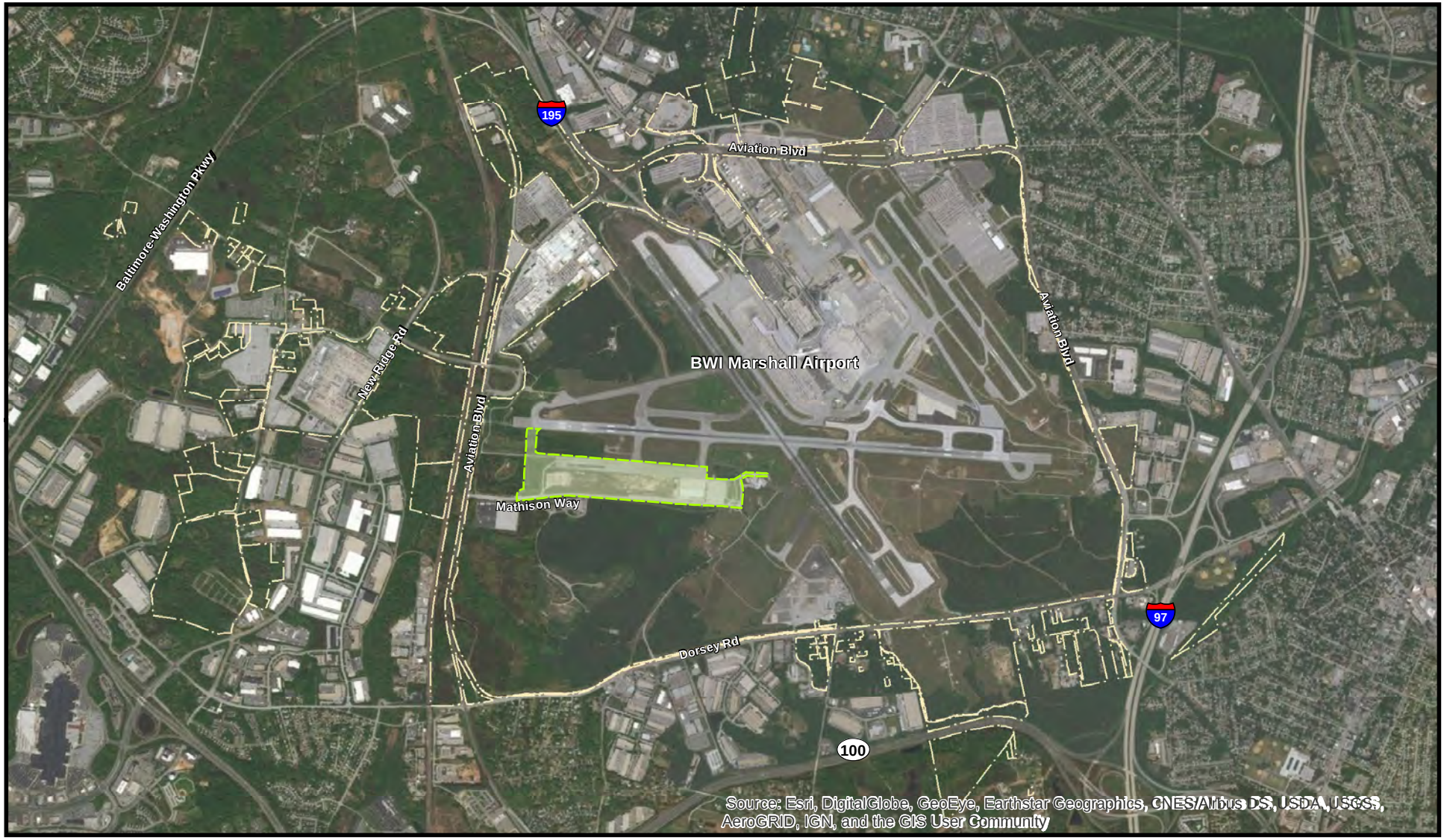
[1] *At the time MDOT MAA initiated coordination with MHT for the project, the MDOT MAA believed the project was to be environmentally reviewed using a Categorical Exclusion to fulfill NEPA requirements. In cooperation with the FAA, it was subsequently determined that a Re-Evaluation of the 1998 EA was a more appropriate means to fulfill NEPA requirements. Additionally, note that coordination with the MHT originally included a project that has since been eliminated from the Proposed Action (a proposed gravity pipe with glycol collection tanks).*

Midfield Cargo Ramp Expansion



LEGEND

- Study Area
- Airport Property Boundary

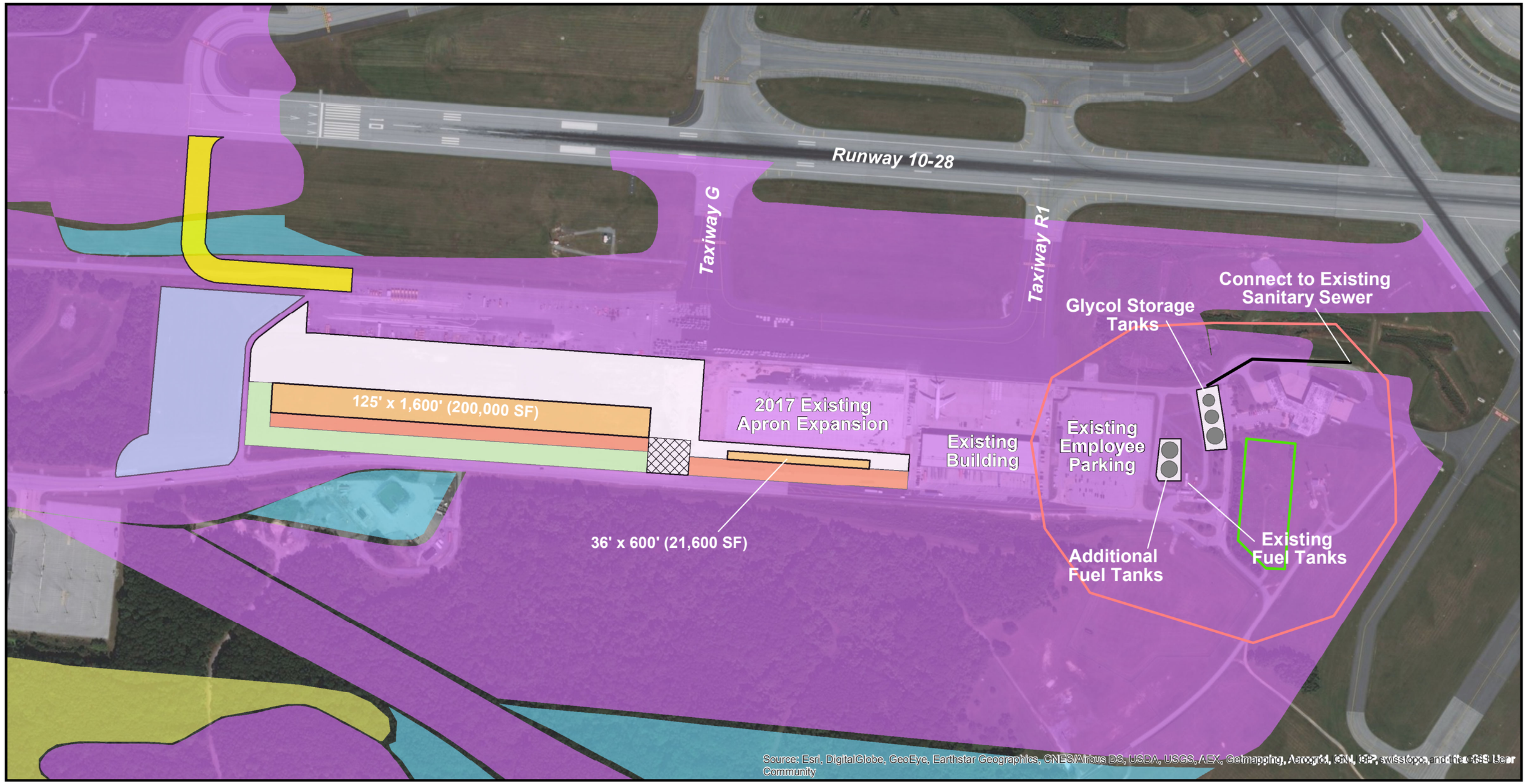
Project Location
Figure 1

N

0 750 1,500 3,000 Feet

BWI BALTIMORE/WASHINGTON INTERNATIONAL Thurgood Marshall AIRPORT

Midfield Cargo Ramp Expansion



LEGEND

- Proposed Apron Pavement (12.1 Acres)
- Proposed Building (221,600 SF)
- Proposed Truck Parking/Staging Area Pavement (7.6 Acres)
- Proposed Gravity Pipe
- Proposed Taxiway (2.8 Acres)
- Proposed Vehicle Parking (3.9 Acres)
- Proposed Vehicle Pavement (3.8 Acres)
- Proposed Truck Staging Area (0.6 Acres)

1996 BWI Historic Preservation Plan (HPP)

- High probability for historic sites
- High probability for historic sites - buried deposits
- Moderate to low probability for prehistoric and historic sites
- Previously evaluated
- Site 18AN1011
- Friendship Cemetery

Midfield Cargo Expansion
Archaeological Resources
Figure 2

N

0 100 200 400 Feet

-------- Original message --------
From: Beth Cole - MHT <beth.cole@maryland.gov>
Date: 9/24/18 2:27 PM (GMT-05:00)
To: Robin Bowie <rbowie@bwiairport.com>
Subject: Re: Request for Input

Hi Robin,

Based on the information provided, as well as our prior coordination on this undertaking, the Maryland Historical Trust concurs with MDOT MAA's determination that the proposed improvements do not have the potential to cause effects - both **direct effects** and **indirect noise effects** to historic properties. Thank you for providing us this opportunity to comment. Have a good day,

Beth Cole

Beth Cole

Administrator, Project Review and Compliance
Maryland Historical Trust
Maryland Department of Planning
100 Community Place
Crownsville, MD 21032
beth.cole@maryland.gov / **410-697-9541**

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On Mon, Sep 24, 2018 at 2:03 PM, Robin Bowie <rbowie@bwiairport.com> wrote:

> Hi, Beth!
>
> I hope you had a nice week off and enjoyed yourself! We need your assistance as we work through some environmental coordination/consultation items on a project we talked to you about back in June. You may recall from our correspondence in June, we were conducting a Categorical Exclusion (CATEX) for a BWI Midfield Cargo project.

Following discussions with the FAA, the MDOT MAA is now developing a Technical Report to assist the FAA in the applicability of a Re-Evaluation of the 1998 BWI Marshall Airport EA for the proposed expansion of the existing Midfield Cargo Facility (1998 EA). The improvements included in the Proposed Action are illustrated on **Figure 1** and include:

- Construct approximately 11.0 acres of additional apron pavement, including 0.6 acres of dedicated truck staging;
- Construct approximately 7.6 acres of additional truck parking/staging area pavement;
- Construct approximately 9.2 acres of vehicular parking space (5.4 acres) and vehicular pavement (3.8 acres) associated with the proposed building;
- Construct an approximately 200,000 SF warehouse/cargo processing building;
- Construct three (3) 10,000-barrel (1 barrel = 42 US gallons) Jet-A fuel tanks (49' diameter x 30' tall) to store additional volume as well as minor mechanical improvements to accommodate additional fuel storage needs for the midfield cargo facility;
- Construct a taxiway connection to Runway 10 (approximately 2.8 acres of pavement) (Note: A maximum of 3.5' of disturbance below the surface would be assumed for this project, with potential for 6-7' below the surface in the location where a storm drain may be needed.);
- Rehabilitate the existing taxilane and two taxiway connectors in the area north of the proposed new apron pavement up to the Taxiway G and Taxiway R1 hold lines (approx. 21.1 acres);
- Construct storm drain pipes to connect into the existing storm drain system draining to Pond B6; and
- Provide associated site infrastructure such as security fencing and area lighting.

The proposed projects are in an area of the airport that is largely developed and actively used for cargo operations. MAA does not anticipate any impacts to historic resources, however if during construction, any unmarked burial sites, or prehistoric or historic artifacts are encountered, construction would stop and the MAA would follow the procedures established in the BWI Marshall Airport HPP.

In addition, noise contours were modeled to account for the indirect noise impacts associated with expanded cargo operations in the year 2020. The expanded cargo operations (2018 Proposed Action in the year 2020) noise contours were compared to the 1998 EA Proposed Action noise contours developed for the year 2015 for the full build out of the Midfield Cargo Facility, as shown in **Figure 2**. The 2018 Proposed Action contours are smaller off all runway ends as compared to the 1998 Proposed Action contours, except for south of the Airport off the Runway 33L end. This change is due to runway use changes over the last 20 years. Figure 2 also identifies the 2016 Existing Conditions noise contour taken from the January 2018 Draft EA/Section 4(f) Determination for 2016-2020 Proposed Improvements at BWI Marshall Airport that highlights the more current noise exposure as a point of reference. However, to our knowledge, there are no historic resources within the additional contour areas.

The MDOT MAA requests MHT's concurrence that the proposed improvements do not have the potential to cause effects: both **direct effects** and **indirect noise effects** to historical resources.

Please do not hesitate to call me if you'd like to discuss further or need additional information. Thank you so much for your help!

Ms. Robin M. Bowie

Director, Office of Environmental Services

Maryland Department of Transportation Maryland Aviation Administration

410-859-7103 (office)

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rbowie@bwiairport.com

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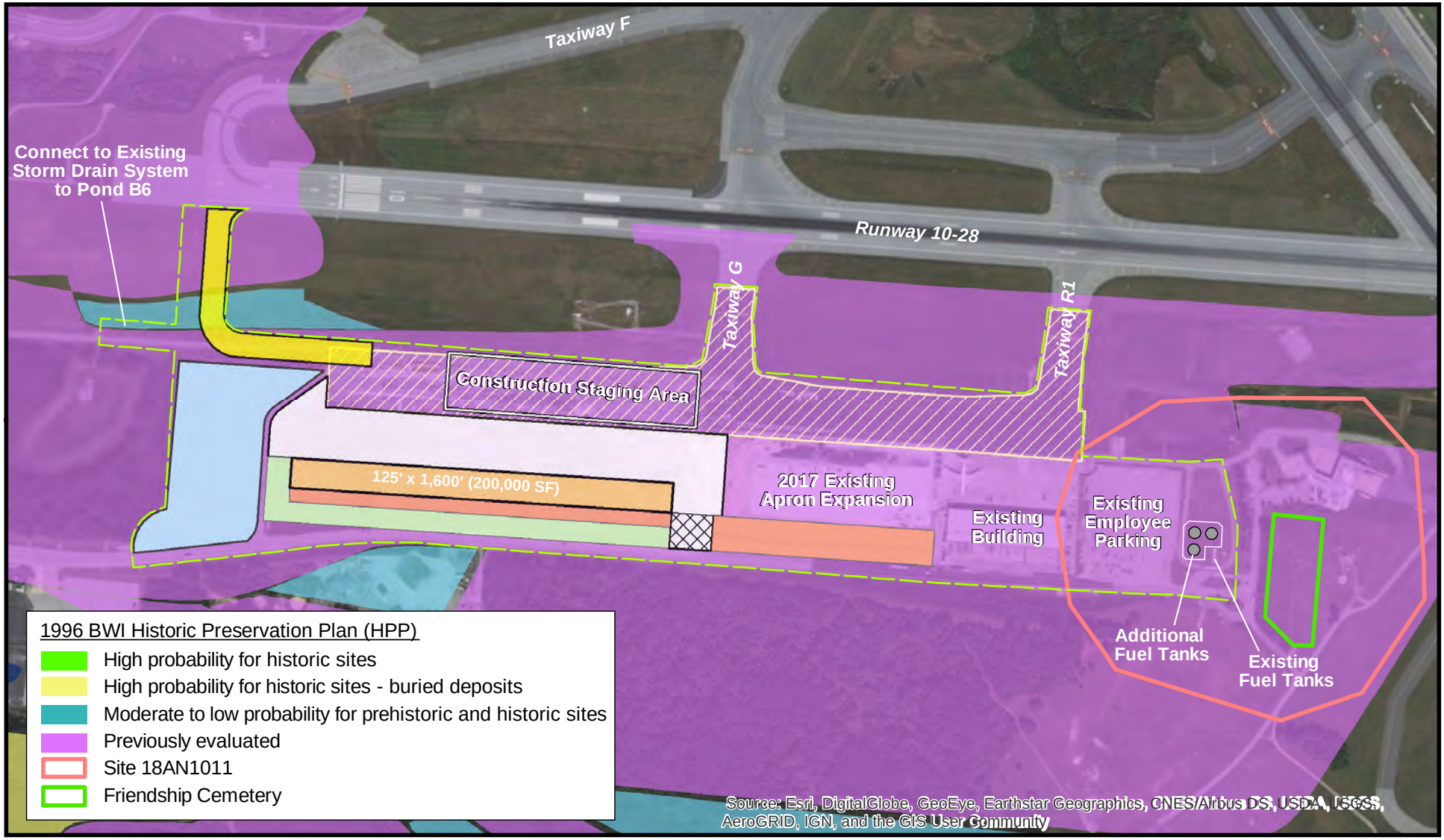
Linthicum, MD 21090

Midfield Improvements



LEGEND

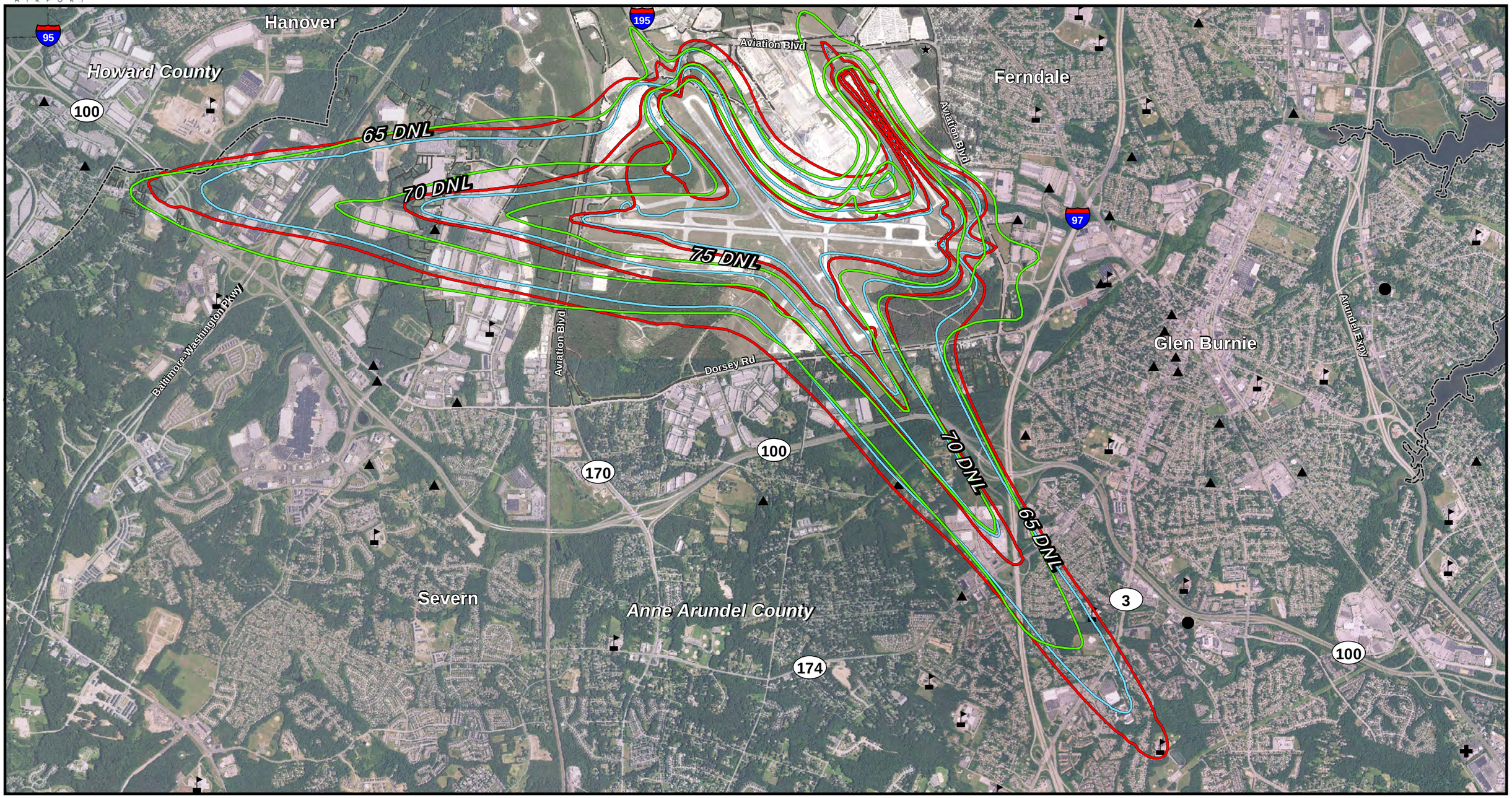
- Study Area
- Proposed Apron Pavement (11.0 Acres)
- Proposed Building (200,000 SF)
- Proposed Truck Parking/Staging Area Pavement (7.6 Acres)
- Proposed Taxiway (2.8 Acres)
- Proposed Vehicle Parking (5.4 Acres)
- Proposed Vehicle Pavement (3.8 Acres)
- Proposed Truck Staging Area (0.6 Acres)
- Mill and Overlay (21.1 Acres)

N

0 150 300 600 Feet

Proposed Action and 1996 HPP Cultural Resources

Figure 1



LEGEND

- 2018 Proposed Action Noise Contour (Year 2020)
- 1998 Proposed Action Noise Contour (Year 2015)
- 2016 Existing Conditions Noise Contour*
- Hospital
- Nursing Home
- School
- Place of Worship
- Historic Resource
- BWI Airport Property
- County Boundary

Noise Contour Comparison
Figure 2

N

0 1,500 3,000 6,000 Feet

Source: Aerial - MDOT MAA (2016), National Park Service, Maryland Department of Planning, Google Earth

* Draft EA/Section 4(f) Determination for 2016-2020 Improvements at BWI Marshall Airport (January 2018)

Appendix E

AEDT Noise and Emissions Analysis
using General Planning Assumptions

Appendix E: AEDT Noise and Emissions Analysis using *General Planning Assumptions*

The Technical Report considers the noise effects of the 2018 Proposed Action Midfield Cargo Facility Improvements, based on the Midfield Cargo Operators' estimates of additional aircraft operations that they would accommodate. Prior to receiving the approval to use detailed operator information, the MDOT MAA completed an analysis of potential impacts using general planning assumptions. This appendix presents the AEDT Noise and Emissions analysis using the general planning assumptions for industry-typical cargo operators, as these are the only resources categories which are impacted by aircraft operation levels. The results of this analysis were found to be similar to those determined using the Midfield Cargo Operators specific input, as detailed in the Technical Report.

This analysis serves as an extension of the noise analysis from the Draft Environmental Assessment and Draft Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport (BWI EA). This document includes the data sources, assumptions, and methodologies applied in assessing noise and aircraft emission impacts of the 2018 Proposed Action Midfield Cargo Facility Improvements operations. The Existing Conditions in this analysis are the same as the Existing Conditions in the BWI EA. The 2018 No Action (Year 2020) in this analysis is the same as the 2020 Proposed Action Alternative in the BWI EA (see Appendix F, Attachment 1: *Appendix K-3, Future Scenarios Noise Analysis* from the BWI EA). The 2018 Proposed Action (Year 2020) in this analysis includes the proposed Midfield Cargo Facility Improvements operations based on general planning assumptions, in addition to the operations modeled in the BWI EA 2020 Proposed Action Alternative.

1 NOISE MODEL INPUTS

Noise contours in this analysis were modeled using AEDT 2d. This section describes inputs to the noise model including the fleet mix, day/night split, stage length, runway use, track use, and run-up operations.

Prior to receiving operator forecasted operations, estimates of future aircraft operations associated with the new facility were based on reasonable general planning assumptions. The apron design provides for seven (7) additional parking stands capable of accommodating wide-body aircraft. Air cargo aircraft operations for the proposed parking stands were estimated based on the following assumptions which were developed to be as conservative (i.e., higher than likely), as realistically possible:

- Cargo parking stands are used much less frequently than passenger aircraft gates. It is not unusual for a cargo parking stand to be used only once per day and they are very seldom used more than twice per day.

- Currently, BWI Marshall Airport averages less than one daily turn per parking stand at the North Cargo Area. As noted above, the current utilization rate at the Midfield Cargo Facility is slightly less than one turn per day. Therefore, two turns per day (i.e., two arrivals and two departures) per parking stand was considered a very conservative (e.g., higher than likely) number of anticipated operations that could be expected with the project.

- To ensure a conservative approach, the analysis assumes the most intensive yet realistic type of cargo use for the site, which is a hubbing operation in which aircraft arrive in a short time frame, exchange cargo, and then depart together. This coordinated arrival, cargo sorting, and departure operation is referred to as a "bank."

- When a cargo carrier operates two daily banks, typically one is a daytime bank and the other a nighttime bank. Nighttime, as defined for noise analysis, extends from 10:00 pm to 7:00 am and lasts 9 hours, compared to 15 "daytime" hours. It is unlikely that the operators could make a business case for operating two discrete sort operations within a 9-hour period. Therefore, 50%of the new operations were assumed to occur during the daytime and the other 50% were assumed to occur at nighttime.

- Most cargo operators (unlike the Midfield Cargo Operator) operate during weekdays, corresponding to the days of operation of their business clients, so operations were assumed to occur for 5 days during the week which translates to 261 days during the year.

- The Boeing 767-300 is the most common aircraft used by ABX Air (ABX), Air Transport International (ATI), and Atlas Air (GTI), the three current carriers at the Midfield facility, and was therefore selected as the representative aircraft.

Based on these forecasting assumptions (7 aircraft parking positions x 2 daily departures/position x 261 days x 2 aircraft operations/departure = 7,300), a total of 7,300 additional annual operations would be expected if used to full capacity.

1.1 Fleet Mix

The 2018 No Action in this analysis (BWI EA 2020 Proposed Action) includes 737.3 Average Annual Day (AAD) operations. Based on general planning assumptions, the 2018 Proposed Action operations include ten AAD arrivals and ten AAD departures by Boeing 767-300 widebody freighters, the most common widebody aircraft currently being purchased for all-cargo operations. Therefore, the 2018 Proposed Action represents an increase of 2.7% in operations compared with the 2018 No Action.

1.2 Day/Night Split

Using general planning assumptions, it was assumed that 50% of the 2018 Proposed Action Midfield Cargo Facility Improvements operations would occur during acoustic daytime hours, and 50% of the cargo operations would occur during acoustic nighttime hours.

Table 1 compares the AAD all-cargo aircraft departures modeled in the 1998 EA (a) with those projected for 2020 based on the general planning assumptions (e) and based on Midfield Cargo Operator provided operations (d). The 2018 Proposed Action (Year 2020) has 20.2 AAD all-cargo departures (based on general planning assumptions) and 21.2 AAD all-cargo departures (based on Midfield Cargo Operator provided operations).

Table 1

Comparison of Average Annual Day All-Cargo Aircraft Departures

	1998 EA (a) 2015 High Growth	BWI 2016-2020 Improvements EA (b) 2020	Midfield Cargo Facilities (c)			BWI 2016-2020 Improvements EA Adjusted for Midfield Operations (d)		Planning Assumptions (e)
			Existing	Proposed	Total	No Action	Proposed Action	Proposed Action
Daytime								
Heavy Jets	1.3	1.7	4.0	2.0	6.0	5.7	7.7	6.7
Other Large Jets	3.7	1.0	0.0	0.0	0.0	1.0	1.0	1.0
Other (Light Jets, GA, Military)	1.4	2.6	0.0	0.0	0.0	2.6	2.6	2.6
Total	6.4	5.3	4.0	2.0	6.0	9.3	11.3	10.3
Nighttime								
Heavy Jets	3.4	3.4	2.0	3.0	5.0	5.4	8.4	8.4
Other Large Jets	9.6	0.3	0.0	0.0	0.0	0.3	0.3	0.3
Other (Light Jets, GA, Military)	3.6	1.2	0.0	0.0	0.0	1.2	1.2	1.2
Total	16.6	4.9	2.0	3.0	5.0	6.9	9.9	9.9
Total								
Heavy Jets	4.7	5.1	6.0	5.0	11.0	11.1	16.1	15.1
Other Large Jets	13.3	1.3	0.0	0.0	0.0	1.3	1.3	1.3
Other (Light Jets, GA, Military)	5.0	3.8	0.0	0.0	0.0	3.8	3.8	3.8
Total	23.0	10.2	6.0	5.0	11.0	16.2	**21.2**	**20.2**

Notes:
(a) BWI Mid-Field Cargo Facility Ground Noise Assessment, HMMH, July 1996. Document did not provide day/night split of aircraft arrivals.
(b) Draft EA/Section 4(f) Determination Proposed Improvements 2016-2020 at BWI Marshall Airport. Activity levels for 2020.
(c) Estimated aircraft operations provided by Midfield Cargo Operator. Activity levels for 2020.
(d) BWI Midfield Cargo Facility Ground Noise Assessment, HMMH, July 1996, plus operations from new Midfield Cargo Facilities.
(e) Based on planning assumptions developed prior to receipt of operator input. Equal to Draft EA/Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport cargo operations plus cargo activity assumed for 7 proposed new cargo aircraft parking positions.

Sources: As noted and HNTB analysis, September 2018.

1.3 Stage Length

Based on an analysis of the existing cargo operations of the potential Midfield Cargo Operator, it was assumed that the departure stage length distribution in **Table 2** would apply.

Table 2
Stage Length Distribution

Stage Length	Percent
1	27.4%
2	23.3%
3	22.8%
4	26.5%
Total	**100.0%**

Source: HNTB analysis of US DOT T100 data.

1.4 Runway Use

It was assumed that the Boeing 767-300 freighters would utilize the runways in the same manner as the Boeing 767-300 in the Existing Conditions. **Table 3** shows the overall runway use in the 2018 No Action and Proposed Action Alternatives.

Table 3
2020 No Action and 2020 Proposed Action Runway Utilization

Runway	2018 No Action (Year 2020)				2018 Proposed Action (Year 2020)			
	Arrivals		Departures		Arrivals		Departures	
	Day	Night	Day	Night	Day	Night	Day	Night
10	27.8%	31.2%	0.1%	0.3%	27.9%	30.8%	0.2%	0.3%
28	3.2%	3.9%	61.5%	62.1%	3.3%	3.8%	61.7%	62.1%
15L	2.2%	1.5%	3.0%	2.1%	2.1%	1.4%	2.9%	1.9%
33R	6.8%	4.0%	6.8%	4.2%	6.5%	3.7%	6.6%	3.9%
15R	1.6%	2.1%	28.4%	29.6%	1.6%	2.2%	28.6%	30.0%
33L	58.4%	57.3%	0.1%	1.7%	58.5%	58.0%	0.1%	1.7%
H01	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Sources: Radar Data and HNTB Analysis 2018.

Since the additional Boeing 767-300 operations associated with the 2018 Proposed Action Midfield Cargo Facility Improvements only account for approximately 2.7% of total operations as compared with the 2018 No Action, runway use changes between the 2018 No Action and 2018 Proposed Action are expected to be minor.

1.5 Track Use

This analysis assumes no changes to the track geometry or track use in the 2018 Proposed Action as compared with the 2018 No Action.

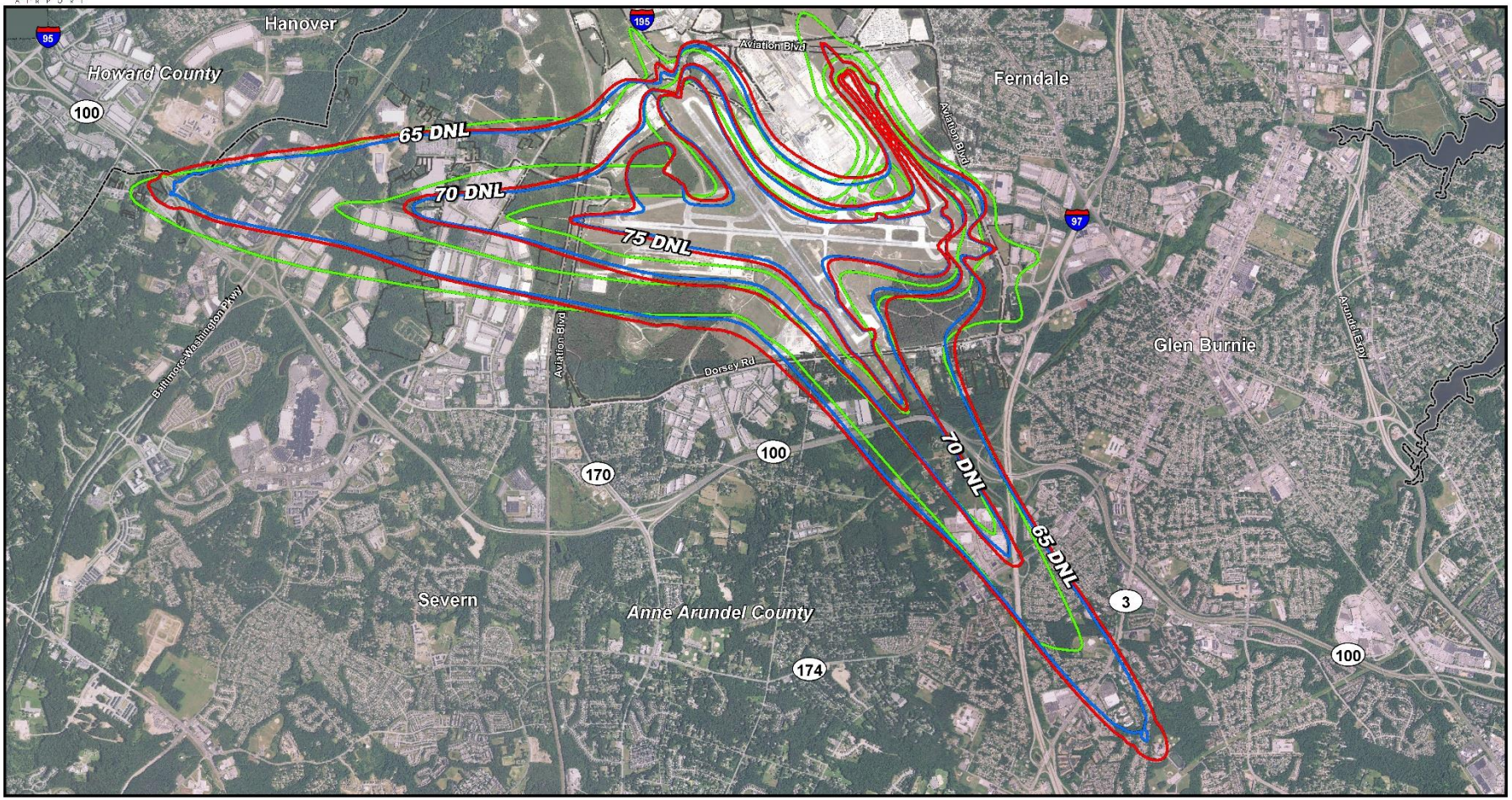
1.6 Aircraft Maintenance Engine Run-ups

This analysis assumes no additional run-up operations in the 2018 Proposed Action as compared with the 2018 No Action. The 2018 Proposed Action does not involve any changed or added facilities for aircraft maintenance, so no changes in run-up activity would be expected.

2 NOISE CONTOURS

Using the inputs described in the section above, the 2018 No Action and 2018 Proposed Action noise contours for the year 2020 were modeled using AEDT 2d. **Figure 1** compares the 2018 No Action and 2018 Proposed Action noise contours for the year 2020, with the 1998 EA Proposed Action noise contour for the year 2015. The noise analysis outputs indicate that the areas under the 65+ DNL contour in the 2018 Proposed Action would increase approximately 8.7% compared with the 2018 No Action. In comparison, the number of operations is expected to increase approximately 2.7%. The larger increase in the noise contour size can be attributed to the conservative assumptions regarding aircraft type and operational day/night split. The Boeing 767-300 is a widebody aircraft with relatively higher noise footprints than smaller jets and propellers. Additionally, the proposed operations include 50% nighttime operations. As discussed in the previous section, nighttime operations are penalized by 10dB to account for their additional annoyance at night when the ambient noise is low and people are asleep.

Midfield Improvements



LEGEND

- 2018 No Action Noise Contour (Year 2020)
- 2018 Proposed Action Noise Contour (Year 2020)
- 1998 EA Proposed Action Noise Contour (Year 2015)
- BWI Airport Property
- County Boundary

Noise Contour Comparison
Figure 2-1

N

0 1,500 3,000 6,000 Feet

Source: Aerial - MDOT MAA (2016), National Park Service, Maryland Department of Planning, Google Earth

2.1 Comparison to 1998 EA Noise Contour

A visual analysis of the noise impacts defined in the 1998 EA Proposed Action shows that the noise exposure (illustrated in Figure 1) with the buildout of the Midfield Cargo Facility (Year 2015) is less off of all runway ends with the exception of Runway 33L, as compared to the noise exposure map developed for the 2018 Proposed Action (Year 2020) (see Figure 3-1). The projected contour south of Runway 33L is longer than the 1998 EA contour. This change is due to runway use changes that have occurred at the Airport unrelated to the Midfield Cargo development (i.e., changing fleet mix, changes in air carriers, changes in terminal use, etc.). **Table 4** compares the runway use assumed for the build out of the Midfield Cargo Facility in the 1998 EA to the runway use assumed in this analysis for the 2018 Proposed Action for heavy jets and large jets which are the primary contributors to the noise contour.

Table 4
Runway Use Comparison

Group	Runway	1998 EA (Year 2015)				2018 Proposed Action (Year 2020)			
		Departure		Arrival		Departure		Arrival	
		Day	Night	Day	Night	Day	Night	Day	Night
Heavy Jets	15R	25.0%	10.0%	4.0%	9.0%	38.5%	34.5%	2.0%	3.2%
	33L	2.0%	6.0%	60.0%	44.0%	0.0%	3.3%	60.4%	66.9%
	10	5.0%	2.0%	32.0%	41.0%	0.7%	0.6%	33.3%	26.5%
	28	69.0%	82.0%	5.0%	6.0%	60.9%	61.6%	4.3%	3.4%
	04	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	22	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	15L	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	33R	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Total	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*
Large Jets	15R	28.0%	17.0%	3.0%	5.0%	31.4%	31.7%	1.6%	2.1%
	33L	1.0%	3.0%	64.0%	53.0%	0.1%	1.6%	64.6%	60.7%
	10	1.0%	1.0%	28.0%	36.0%	0.1%	0.2%	30.1%	33.2%
	28	70.0%	79.0%	5.0%	7.0%	68.0%	66.4%	3.2%	3.8%
	04	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	22	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	15L	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
	33R	0.0%	0.0%	0.0%	0.0%	0.3%	0.1%	0.4%	0.3%
	Total	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

Note: Totals may not sum up due to rounding.

Note: Runway 4/22 was permanently closed on August 5, 2014.

Sources: 1998 EA Table D.7, BWI EA, and HNTB Analysis, 2018.

Heavy jet departures currently utilize Runway 15R more frequently and Runway 28 less frequently in the 2018 Proposed Action than assumed in the 1998 EA. Heavy jet nighttime arrivals utilize Runway 33L more frequently and Runway 10 less frequently in the 2018 Proposed Action than assumed in the 1998 EA. Large jet nighttime departures utilize Runway 15R more frequently and Runway 28 less frequently in the 2018 Proposed Action than in the 1998 EA. Large jet arrivals runway utilizations are generally in agreement between the 2018 Proposed Action and the 1998 EA.

Because of these changes in runway use over the span of 20 years, there are modest differences between the 2018 Proposed Action and 1998 EA noise contours. However, the size and shapes of the contours remain very similar. The noise exposure associated with the 2018 Proposed Action Midfield Cargo Facility Improvements operations add slightly to these contours. Overall, the extent and location of the noise exposures are very close, so the conclusions from the 1998 EA remain valid.

3 AIRCRAFT EMISSIONS

The project is expected to be fully operational in the year 2020. The emissions associated with the Midfield Cargo Facility Improvements (2018 Proposed Action) including the operations associated with the existing apron and facilities in the year 2020 are provided in **Table 5.** These emissions include ground support equipment (GSE) and auxiliary power units (APU) for the estimated operations based on general planning assumptions. The emissions by aircraft, GSE, and APU in this analysis were modeled using AEDT 2d.

The additional Airport operations emissions with the proposed Midfield Cargo Facility Improvements would not exceed *de minimis* levels and therefore no General Conformity determination or re-determination is necessary under the Clean Air Act. 40 C.F.R. Section 93.157(a). Additionally, the State Implementation Plan (*Maintenance Plan for the Washington DC-MD-VA 2008 Ozone NAAQS Nonattainment Area*, submitted December 20, 2017) includes emissions for BWI Marshall including: 2,028.54 tons/year of NO_X, 229.92 tons/year of SO_X, 57.07 tons/year of $PM_{2.5}$, and 448.99 tons/year of VOC, which were much higher than modeled emissions from the Airport, including the project emissions (*Appendix B1b: Technical support document for the development of area, and marine, airport, and railroad source (non-Nonroad model, MOVES2014a sources) emissions inventories for Maryland, 6/19/17*). As a result, the air quality conclusions of the 1998 EA relating to operational emissions remain valid.

Table 5
2020 Airport Operations Emissions (tons per year)

Emission Type	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
2020 Airport Operations[1]	1,465	1,116	107	21	18	197
2020 Midfield Cargo Facility Improvements Operations						
Aircraft, APU, GSE[2]	61	74	6	1	1	11
Surface Vehicle (On-Airport)[3]	0.5	1	0.004	0.05	0.04	0.001
Total with Midfield Cargo Facility Improvements Associated Emissions	1,527	1,191	113	22	19	208
Potential BWI Marshall Construction[4]	23	7	0.03	41	4	2
De Minimis Levels	--	*100*	*100*	--	*100*	*50*
Exceed De Minimis?	--	*No*	*No*	--	*No*	*No*

Note: Airport operations include emissions from the following: aircraft, auxiliary power units, ground support units, on-airport roadways, curbsides, parking lots, boilers, generators, and training fires.

Sources:
[1] KBE analysis, *BWI Air Quality and GHG Management Plan Update (August 2017*),
[2] *AEDT 2d, HNTB analysis, 2018.*
[3] USEPA's MOVES "rate per distance" emission factors, *HNTB analysis, 2018.*
[4] *Draft EA and Draft Section 4(f) Determination Proposed Improvements 2016-2020 at BWI Marshall Airport,* Table 5.1-2 (January 2018).

4 SUMMARY

This analysis describes the noise model inputs and outputs for the proposed Midfield Cargo Facility Improvements operations, as well as the output for aircraft emissions. The number of operations in the 2018 Proposed Action is expected to increase by approximately 2.7% as compared to the 2018 No Action. For both the 2018 No Action and 2018 Proposed Action, approximately 50% of the Midfield Cargo Facility Improvement operations would occur during daytime hours and 50% would occur during nighttime hours. The runway use is expected to change slightly as a result. The stage length distribution was based on the existing cargo operations of the potential Midfield Cargo Operator. No changes to the track geometry, track use, and engine maintenance run-ups were assumed. The output for the 2018 Proposed Action indicates an increase of approximately 8.7% of the areas under the 65+ DNL contour as compared to the 2018 No Action, due to the Boeing 767-300's relatively higher noise footprint and nighttime operations. The additional Airport operations emissions with the proposed Midfield Cargo Facility Improvements would not exceed *de minimis* levels and therefore no General Conformity determination or re-determination is necessary under the Clean Air Act. 40 C.F.R. Section 93.157(a).

Appendix F

Noise

APPENDIX F: Noise

The following reports are included as part of this appendix to support the noise analysis:

- Attachment 1: *Appendix K-3: Future Scenarios Noise Analysis*, Draft Environmental Assessment and Draft Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport, January 2018
- Attachment 2: AEDT Noise Analysis of the Proposed Midfield Cargo Facility Improvements
- Attachment 3: AEDT High Growth Noise Sensitivity Analysis

Attachment 1:

Appendix K-3: Future Scenarios Noise Analysis

Draft Environmental Assessment and Draft Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport

January 2018

Appendix K-3

Future Scenarios Noise Analysis Technical Report

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TABLE OF CONTENTS

Page

K-3.1 BWI Marshall Airport Facilities 1

K-3.2 Future Scenarios Noise Model Inputs 1

K-3.2.1 Fleet Mix 1

K-3.2.2 Stage Length 2

K-3.2.3 Day and Night Operations 3

K-3.2.4 Aircraft Maintenance Engine Run-ups 4

K-3.2.5 Meteorological Conditions 5

K-3.2.6 Terrain 6

K-3.2.7 Runway Utilization 6

K-3.2.8 Track Geometry and Utilization 7

K-3.3 Noise Contours and Comparison 7

LIST OF FIGURES

Page

Figure K-3-1 Comparison of TERPZ Procedures Before and After Change 9

Figure K-3-2 BWI EA (2020) Proposed Actions Noise Contour 10

Figure K-3-3 BWI EA (2020) No Action Noise Contour 12

Figure K-3-4 BWI EA (2020) Proposed Actions and No Action vs. Existing Conditions 12

Figure K-3-5 BWI EA (2025) Proposed Actions Noise Contour 13

Figure K-3-6 BWI EA (2020) No Action Noise Contour 14

Figure K-3-7 BWI EA (2025) Proposed Actions and No Action vs. Existing Conditions 15

Figure K-3-8 Comparison of BWI EA 2020 Noise Contour vs. Part 150 Study 2019 Noise Contour .. 16

LIST OF TABLES

Page

Table K-3.1 Existing and Future Scenarios Fleet Mix by Operating Category 2

Table K-3.2 Distribution of Departure Stage Lengths 3

Table K-3.3 Distribution of Day and Night Operations 3

Table K-3.4 Proposed Actions Engine Maintenance Run-up Operations by Aircraft Type 4

Table K-3.5 Proposed Actions Engine Maintenance Run-up Operations by Day/Night 5

Table K-3.6 No Action Engine Maintenance Run-up Operations 5

Table K-3.7 Future Scenarios Metrological Parameters 6

Table K-3.8 Runway Utilization in 2020 and 2025 6

Table K-3.9 65+ DNL Areas 7

ATTACHMENTS

Attachment 1: Future Scenarios Fleet Mixes

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APPENDIX K-3: Future Scenarios Noise Analysis

This appendix summarizes the data sources, assumptions and methodologies used to develop the Future Scenarios (2020 and 2025) noise contours for BWI Marshall Airport. The Future Scenarios include the Proposed Actions and No Action scenarios.

K-3.1 BWI Marshall Airport Facilities

BWI Marshall Airport currently has 3 runways including Runway 10-28, Runway 15L-33R, and Runway 15R-33L. There is also a helipad located in the northeast quadrant close to the end of Runway 15L. There are no proposed changes to the physical characteristics of the runways and helipad in the Future Scenarios. Displaced thresholds at Runway 10-28 and 15R-33L and departure procedures at Runway 28 are consistent with the Existing Conditions. The Proposed Actions scenario includes an airline maintenance facility and the majority of the fleet are expected to perform engine maintenance run-ups in proximity to the new facility. Run-up operations will also be allowed at the Runway 33L holding block and Runway 28 de-ice pad. The Runway 10 holding block, where the current engine maintenance run-up operations are being performed, is expected to be eliminated as part of the Proposed Actions scenario. See Table K-2.1 in Appendix K-2 for the runway and helipad characteristics.

K-3.2 Future Scenarios Noise Model Inputs

There are no physical changes to runway ends and helipad locations. The Proposed Actions scenario includes an airline maintenance facility and the majority of the fleet are expected to perform engine maintenance run-ups in proximity to the new facility. The No Action scenario assumes the engine maintenance run-up operations will continue to occur at the current run-up location. The noise contours for 2020 and 2025 were modeled using the fleet mixes developed as part of the BWI Marshall Proposed Improvements 2016-2020 EA process. The fleet mixes were approved by the FAA on September 29th, 2016. Attachment 2 in *Appendix C, Fleet Mix* provides the approval letter. The Future Scenarios noise contours in 2020 and 2025 were modeled using AEDT version 2c. This section describes the assumptions and methodologies applied in the noise modeling.

K-3.2.1 Fleet Mix

The Future Scenarios fleet mixes were developed as part of the EA process. The Proposed Actions and No Action fleet mixes were assumed to be identical. Operations were categorized into Air Carrier, Air Taxi, General Aviation, and Military. On an Average Annual Day (AAD) basis, the total number of operations is projected to increase from 683.88 in 2016 to 737.31 in 2020 and 800.90 in 2025. **Table K-3.1** summarizes the number of operations by operating categories.

Table K-3.1
Existing and Future Scenarios Fleet Mix by Operating Category

Operating Category	2016		2020		2025	
	Day	Night	Day	Night	Day	Night
Air Carrier	513.3	96.1	552.1	106.2	599.2	116.0
Air Taxi	27.8	3.2	31.3	3.7	36.8	4.3
General Aviation	36.8	2.6	37.3	2.6	37.8	2.7
Military	3.6	0.5	3.7	0.4	3.7	0.4
Total	581.5	102.4	624.4	112.9	677.5	123.4

Sources: Radar Data, FAA, and HNTB Analysis,2017.

In general, the percentages of General Aviation (GA) and military operations were projected to decline in the Future Scenarios. The percentage of air carrier operations was projected to hold relatively steady while the percentage of air taxi operations was projected to increase.

Aircraft in the fleet mix were converted into representative noise aircraft in AEDT using standard and non-standard aircraft substitutions. The non-standard AEDT aircraft substitutions were reviewed and approved by the FAA Office of Environmental and Energy (AEE) on September 13th, 2016. The coordination letter is included in Attachment 1 of *Appendix K-2, Existing Conditions Noise Analysis.*

The detailed number of AAD operations, by arrivals, departures and touch-and-goes, by operation category, and by day and night, for each noise aircraft in the fleet mix for 2020 and 2025 are shown in Tables K.1 and K.2 in **Attachment 1** of this **Appendix**.

K-3.2.2 Stage Length

Departure stage lengths for Future Scenarios were assumed to be consistent with the Existing Conditions by aircraft type. It was assumed that the same aircraft would have the same stage lengths as in the Existing Conditions. For aircraft that were not in the Existing Conditions fleet mix, a similar aircraft stage length distribution was applied. For example, for the projected Boeing 737 MAX 7 operations, the departure stage length distribution of Boeing 737-700 as determined for Existing Conditions was applied. **Table K-3.2** shows the distribution of the departure stage lengths in 2020 and 2025. The distribution of departure stage lengths changed slightly because of changes in the fleet mixes. Departures with stage length 7 in 2025 reflects projected new international markets served by wide-body aircraft.

Table K-3.2
Distribution of Departure Stage Lengths

Stage Length	Distance Bracket (nm)	2020			2025		
		Day	Night	Total	Day	Night	Total
1	0-500	48.9%	65.7%	51.4%	48.8%	63.3%	50.9%
2	501-1,000	29.8%	22.4%	28.7%	30.1%	24.9%	29.3%
3	1,001-1,500	12.2%	6.5%	11.4%	13.7%	6.7%	12.7%
4	1,501-2,500	8.8%	4.4%	8.1%	6.9%	4.2%	6.5%
5	2,501-3,500	0.3%	0.8%	0.4%	0.3%	0.8%	0.4%
6	3,501-4,500	0.0%	0.2%	0.0%	0.0%	0.2%	0.0%
7	4,501-5,500	-	-	-	0.2%	0.0%	0.1%

Source: MAA Radar Data and HNTB Analysis, 2016.

K-3.2.3 Day and Night Operations

The day and night split by aircraft type was also assumed to be consistent with the Existing Conditions. It was assumed that the same aircraft type would fly the same percentage of time during the daytime hours and nighttime hours as the Existing Conditions. For aircraft that were not in the Existing Conditions fleet mix, day and night operation percentages of similar aircraft type were applied. For example, for the projected Boeing 737 MAX 7 operations, day and night percentages determined for the Boeing 737-700 in the Existing Conditions were applied. Changes in the future fleet mixes, as shown in Table K-3.1 and Tables K.1 and K.2 in **Attachment 1** of this Appendix**,** would change the overall distribution of day and night operations as different aircraft were projected to grow at different rates. The Future Scenarios analysis indicates that approximately 84% of all operations would occur during the daytime and approximately 15% of all operations would occur during the night time. **Table K-3.3** shows the projected distribution of daytime and night time operations in 2020 and 2025.

Table K-3.3
Distribution of Day and Night Operations

Operation Type	2020		2025	
	Daytime	Nighttime	Daytime	Nighttime
Arrival	84.1%	15.9%	83.7%	16.3%
Departure	85.3%	14.7%	85.5%	14.5%
Touch-and-Go	100.0%	0.0%	100.0%	0.0%
Total	84.7%	15.3%	84.6%	15.4%

Sources: MAA Radar Data and HNTB Analysis 2017.

K-3.2.4 Aircraft Maintenance Engine Run-ups

Currently at BWI Marshall Airport, engine run-up operations are permitted at the holding block of Runway 10, with the aircraft nose positioned between 190^0 to 220^0 to the magnetic north[1]. In Future Scenarios with the Proposed Actions, the Runway 10 holding block is expected to be demolished. An airline maintenance facility is proposed where most of the fleet are expected to perform engine maintenance run-ups. Additional run-up operations will also be allowed at the Runway 33L holding block and Runway 28 de-ice pad. To account for additional run-up operations, the proposed airline maintenance facility was compared with another maintenance facility with similar functionality and capacity. Projected aircraft maintenance engine run-up operations in 2020 and 2025 were estimated based on a comparison of the fleet mixes and frequencies between the two facilities. **Table K-3.4** shows the projected number of engine run-up operations in 2020 and 2025 by aircraft on an AAD basis. **Table K-3.5** identifies the projected number of engine run-up operations in 2020 and 2025 by daytime and nighttime.

Table K-3.4
Proposed Actions Engine Maintenance Run-up Operations by Aircraft Type

Aircraft Description	2020	2025
	AAD Operations	AAD Operations
Boeing 737-700 and MAX 7	6.5484	6.9936
Boeing 737-800 and MAX 8	1.2922	1.1422
Boeing 767-300	0.0052	0.0051
Boeing 777-200	0.0076	0.0090
Airbus A320 with CFMI CFM56-5s Engine	0.0013	0.0032
Airbus A320 with IAE V2500s Engine	0.0012	0.0014
McDonald Douglas MD83	<0.0001	-
Airbus A321	0.0043	0.0046
Boeing 737-300	<0.0001	<0.0001
Total	**7.86**	**8.16**

Sources: MAA and HNTB Analysis 2017.

[1] MAA, Baltimore/Washington International Thurgood Marshall Airport Part 150 Update, Document of 2014 and 2019 Noise Exposure Maps, Section 4.2.9.

Table K-3.5
Proposed Actions Engine Maintenance Run-up Operations by Day/Night

Day/Night	2020	2025
Daytime (7 AM – 9:59 PM)	4.71	4.89
Nighttime (10 PM – 6:59 AM)	3.15	3.27
Total	**7.86**	**8.16**

Sources: MAA and HNTB Analysis 2017.

In the No Action scenarios, it was assumed that no additional engine maintenance run-ups would be introduced without the airline maintenance center. The number of run-up operations was estimated based on the growth factors by aircraft developed in the fleet mix development task. **Table K-3.6** shows the modeled engine maintenance run-up operations in the No Action scenario.

Table K-3.6
No Action Engine Maintenance Run-up Operations

Aircraft Description	2020	2025
	AAD Operations	AAD Operations
Boeing 737-700 and MAX 7	0.0078	0.0083
Boeing 737-800 and MAX 8	0.0057	0.0044
Boeing 767-300	0.0052	0.0051
Boeing 777-200	0.0076	0.0090
Airbus A320 with CFMI CFM56-5s Engine	0.0013	0.0032
Airbus A320 with IAE V2500s Engine	0.0012	0.0014
McDonald Douglas MD83	<0.0001	-
Airbus A321	0.0043	0.0046
Boeing 737-300	<0.0001	<0.0001

Sources: MAA and HNTB Analysis 2017.

K-3.2.5 Meteorological Conditions

For the Future Scenarios, parameters in **Table K-3.7** were applied based on default AEDT 2c meteorological conditions at BWI Marshall Airport, same as the Existing Conditions

Table K-3.7
Future Scenarios Meteorological Parameters

Parameters	Units	Value
Temperature	Fahrenheit	54.0
Pressure	Millibar	1010.9
Relative Humidity	Percentage	67.9
Headwind Speed	Knot	6.1

Source: AEDT 2c default meteorological parameters.

K-3.2.6 Terrain

Terrain data was obtained from the National Land Cover Database (NLCD) developed by the U.S. Department of the Interior[2].

K-3.2.7 Runway Utilization

Runway utilization percentages were assumed to be consistent by aircraft type with the runway utilization of the Existing Conditions. The runway utilization in Future Scenarios changed slightly from the Existing Conditions because of changes in the fleet mixes. For example, as shown in Table K-3.1, the percentage of GA operations was projected to decline. GA aircraft operating at BWI Marshall Airport primarily utilize Runway 15L-33R whose utilization percentage was projected to decline slightly as a result. It was assumed that the runway utilization would not change between the Proposed Actions and No Action scenarios. **Tables K-3.8** shows the runway utilization for 2020 and 2025.

Table K-3.8
Runway Utilization in 2020 and 2025

Runway	2020				2025			
	Arrivals		Departures		Arrivals		Departures	
	Day	Night	Day	Night	Day	Night	Day	Night
10	27.8%	31.2%	0.1%	0.3%	27.9%	31.3%	0.1%	0.3%
28	3.2%	3.9%	61.5%	62.1%	3.2%	3.8%	61.7%	61.9%
15L	2.2%	1.5%	3.0%	2.1%	2.1%	1.5%	2.8%	2.2%
33R	6.8%	4.0%	6.8%	4.2%	6.5%	4.1%	6.5%	4.4%
15R	1.6%	2.1%	28.4%	29.6%	1.6%	2.1%	28.6%	29.7%
33L	58.4%	57.3%	0.1%	1.7%	58.6%	57.2%	0.1%	1.6%
H01	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Sources: Radar Data and HNTB Analysis 2017.

[2]U.S. Geological Survey, Multi-Resolution Land Characteristics Consortium (MRLC), National Land Cover Database (NLCD), U.S. Department of Interior, http://www.mrlc.gov/finddata.php.

K-3.2.8 Track Geometry and Utilization

Track geometry and utilization were consistent with the Existing Conditions except changes in the TERPZ procedure. On February 4th, 2016, departure procedure TERPZ5 was changed to TERPZ6 by the FAA. This change affects jet departure flight tracks from Runway 15R making right turns to the west and northwest as well as Runway 28 making a slight right turn towards west and northwest. In the Future Scenarios, tracks reflective of the TERPZ6 procedure were applied to the noise analysis. **Figure K-3-1** shows the TERPZ flight tracks before and after the procedure change.

K-3.3 Noise Contours and Comparison

The 2020 and 2025 noise contours were modeled using the noise inputs described in the previous sections. **Figures K-3-2** and **K-3-3** show the 2020 Proposed Actions and No Action noise contours. **Figure K-3-4** compares the 2020 Proposed Actions and No Action noise contours with the 2016 Existing Conditions noise contours. **Figures K-3-5** and **K-3-6** show the 2025 Proposed Actions and No Action noise contours. **Figure K-3-7** compares the 2025 Proposed Actions and No Action noise contours with the 2016 Existing Conditions noise contours.

Compared with the 2016 Existing Conditions, the areas within 65+ DNL are projected to increase by 11.1% in 2020 and 18.3% in 2025 under the Proposed Actions scenarios. Under the No Action scenarios, the areas within 65+ DNL are projected to increase by 9.7% in 2020 and 16.8% in 2025. A direct comparison between the No Action and Proposed Action 65+ DNL contour areas indicates that the Proposed Action is expected to increase the contour area by approximately 1.3% in both 2020 and 2025. **Table K-3.9** shows the areas within 65+ DNL for the Existing Conditions, No Action, and Proposed Actions scenarios.

Table K-3.9
65+ DNL Areas

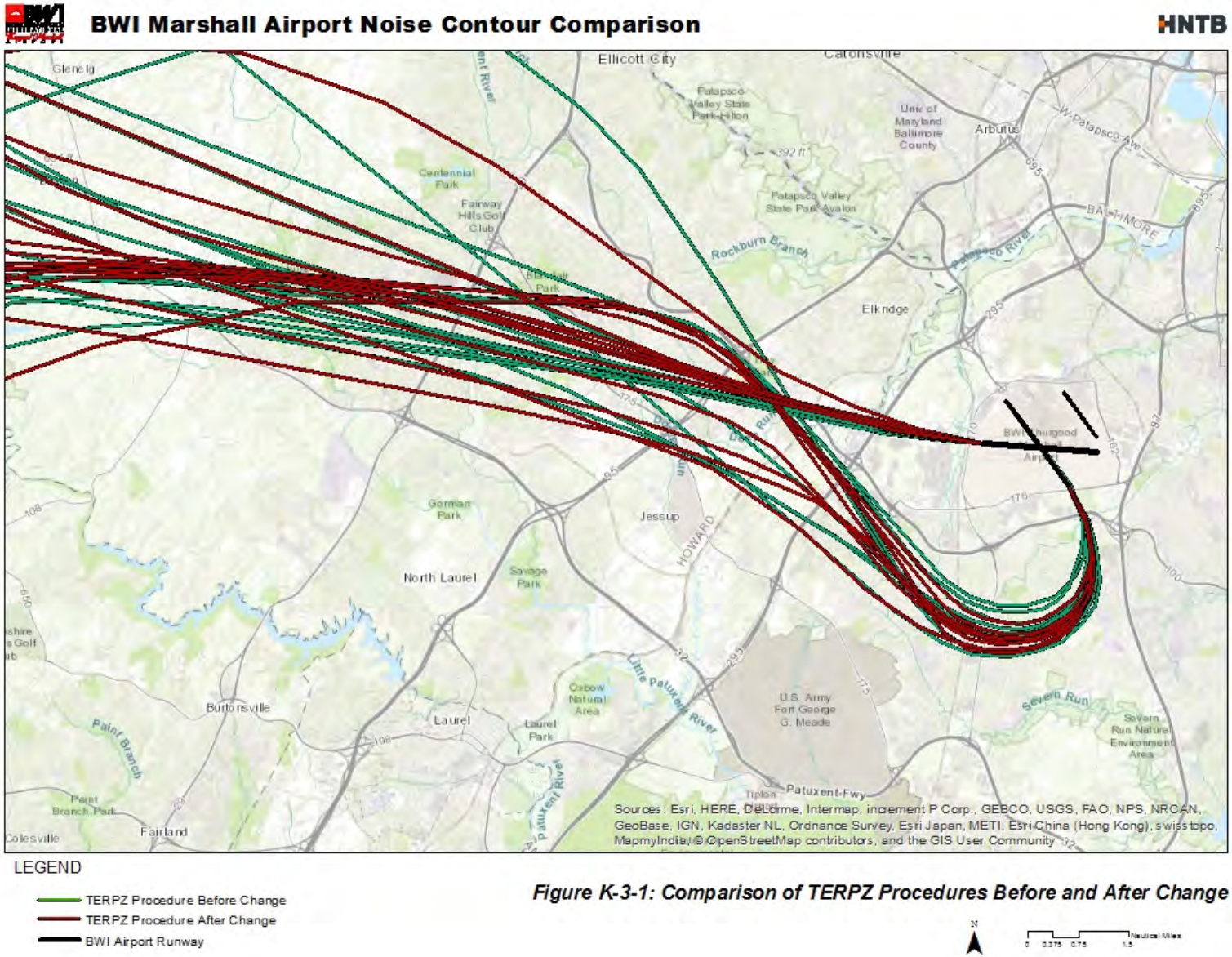
Scenarios	65+ DNL Area (acres)	% Increase vs. Existing Conditions	% Increase vs. No Action
2016 Existing Conditions	3,485.3	N/A	N/A
2020 No Action	3,823.1	9.7%	N/A
2025 No Action	4,072.1	16.8%	N/A
2020 Proposed Actions	3,873.3	11.1%	1.3%
2025 Proposed Actions	4,123.2	18.3%	1.3%

Sources: HNTB Analysis 2017.

The increase of the contour area was primarily driven by the increase in operations projected between the Existing Conditions and Future Scenarios, additional operations projected due to the proposed airline maintenance facility, and changes in the fleet mixes. More specifically, the increases of the contour area along runway centerlines were primarily due to the increase in operations and changes in the fleet mixes. The increase of the contour area between Runways

10 and 15R was primary driven by the engine maintenance run-up operations that would occur at the proposed airline maintenance center.

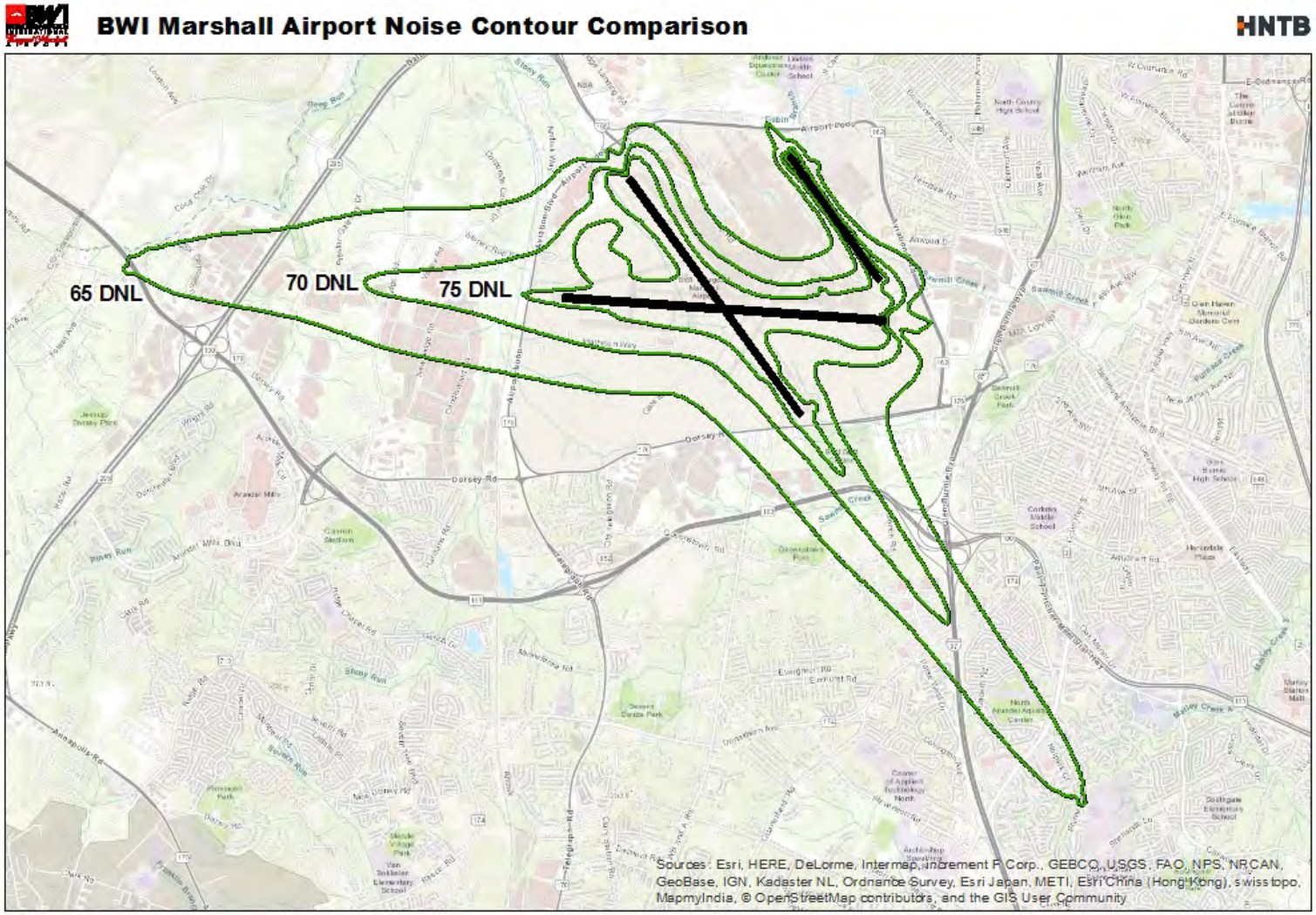
The BWI EA 2020 Proposed Action noise contours were also compared with the Part 150 Study 2019 noise contours, which is shown in **Figure K-3-8**. Compared with the Part 150 Study 2019 noise contours, the areas within the 65+DNL of the BWI EA 2020 Proposed Action noise contours are projected to increase by 8.3%. The most significant increase is expected to occur to the northwest of the airport between Runway 10 and Runway 15R. Areas to the southeast of the airport along the Runway 15R/33L extended centerline are also expected to experience an increase of noise level. Meanwhile, the noise level at the tip of the Runway 15R/33L extended centerline is expected to decrease. The differences between the BWI EA 2020 and Part 150 Study 2019 noise contours can be attributed to various factors including differences in fleet mixes and operations, day/night split, stage lengths, runway and track utilization, engine maintenance location and frequency, approach and departure procedures, and meteorological conditions.



LEGEND

- TERPZ Procedure Before Change
- TERPZ Procedure After Change
- BWI Airport Runway

Figure K-3-1: Comparison of TERPZ Procedures Before and After Change

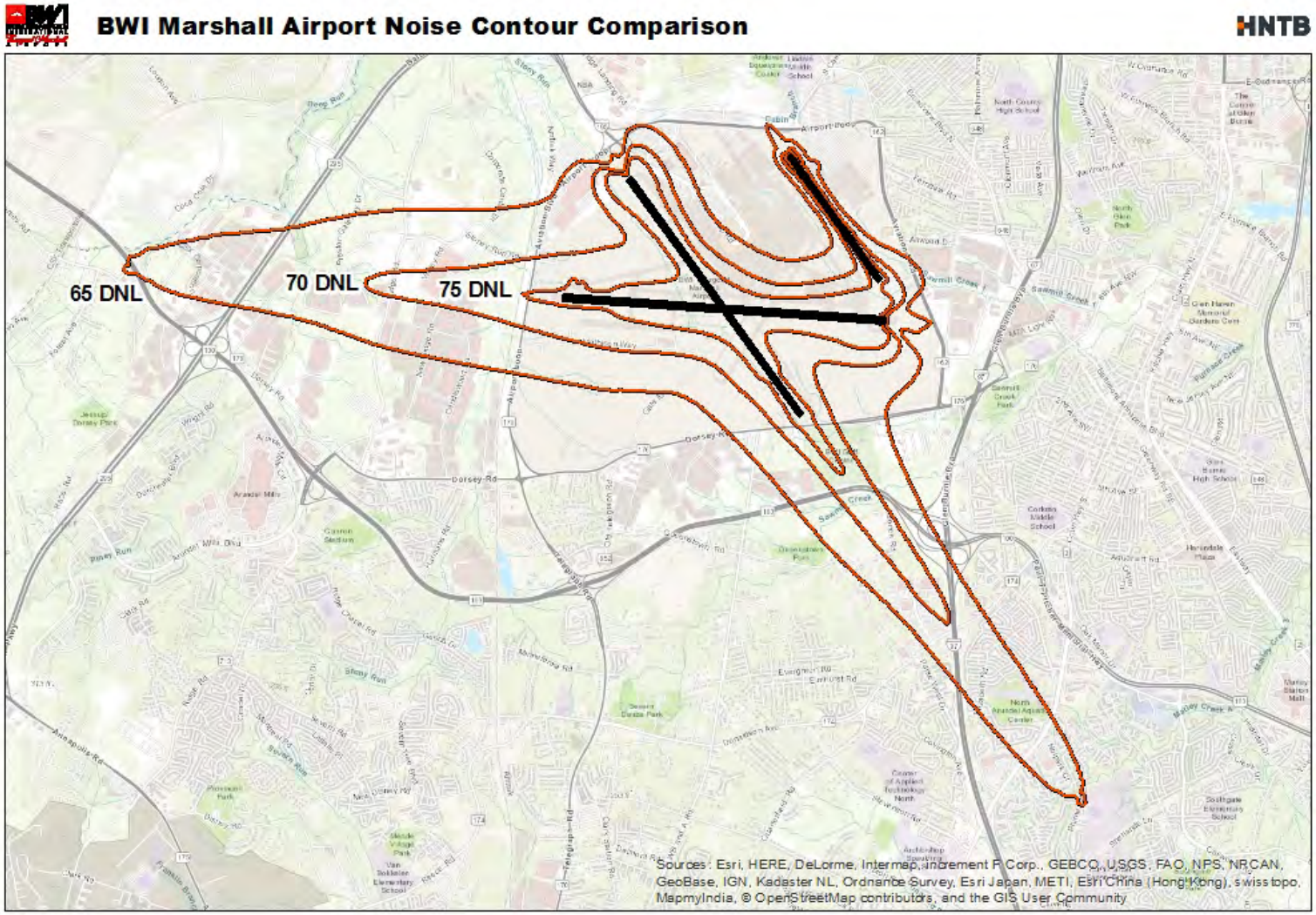


LEGEND

2020 Proposed Action Noise Contour

BWI Airport Runway

Figure K-3-2: BWI EA (2020) Proposed Actions Noise Contour



LEGEND

2020 No Action Noise Contour

BWI Airport Runway

Figure K-3-3: BWI EA (2020) No Action Noise Contour

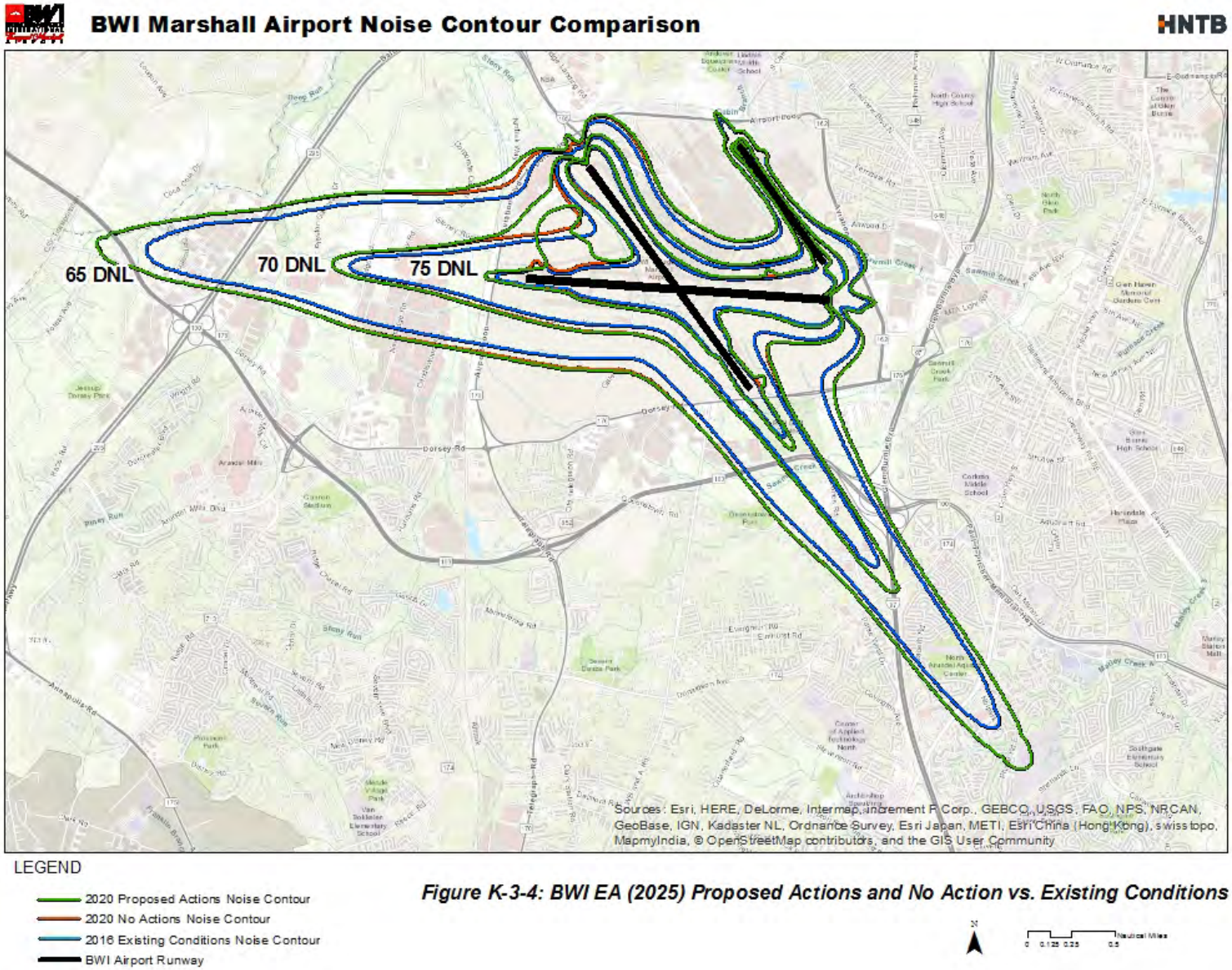
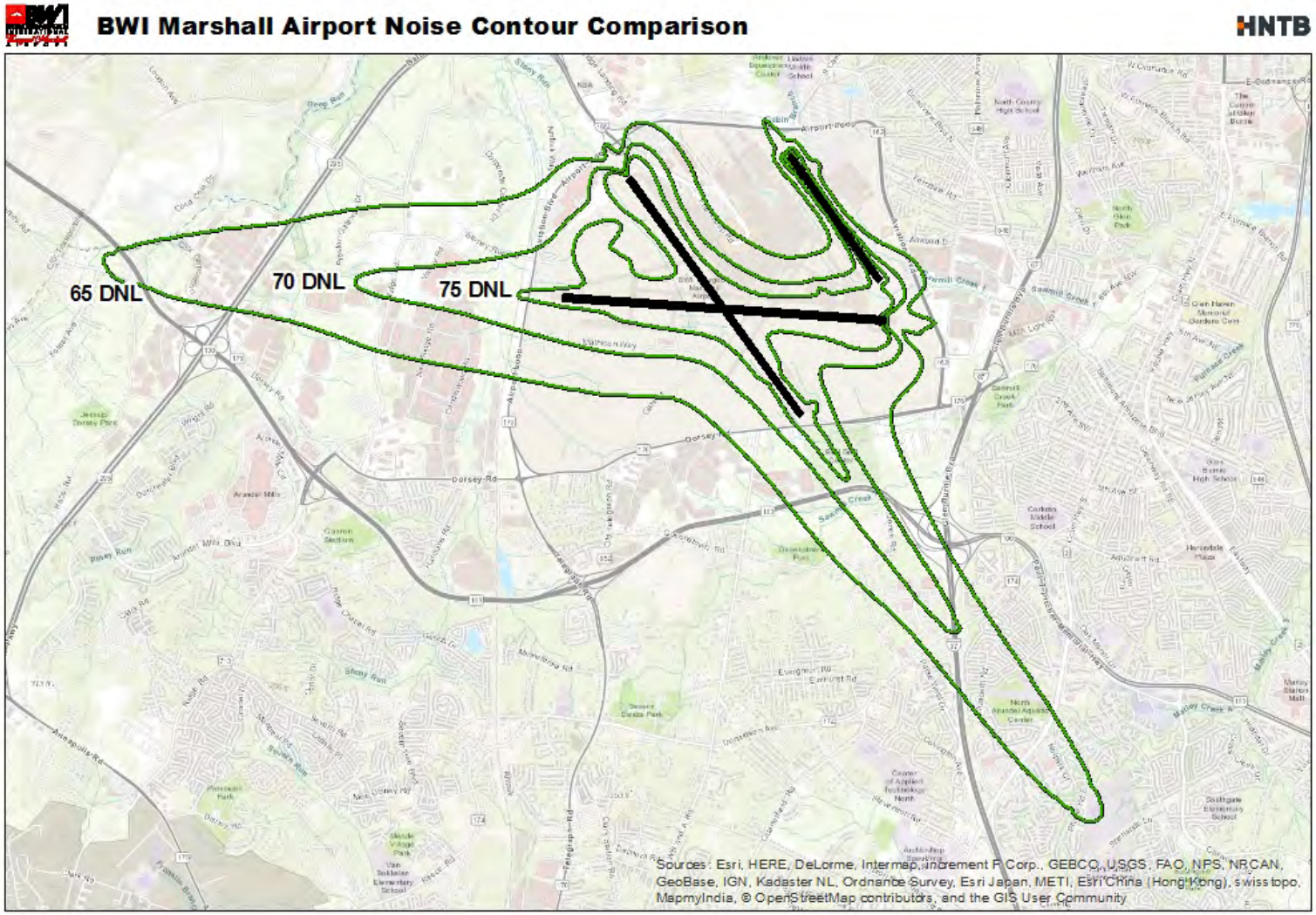


Figure K-3-4: BWI EA (2025) Proposed Actions and No Action vs. Existing Conditions

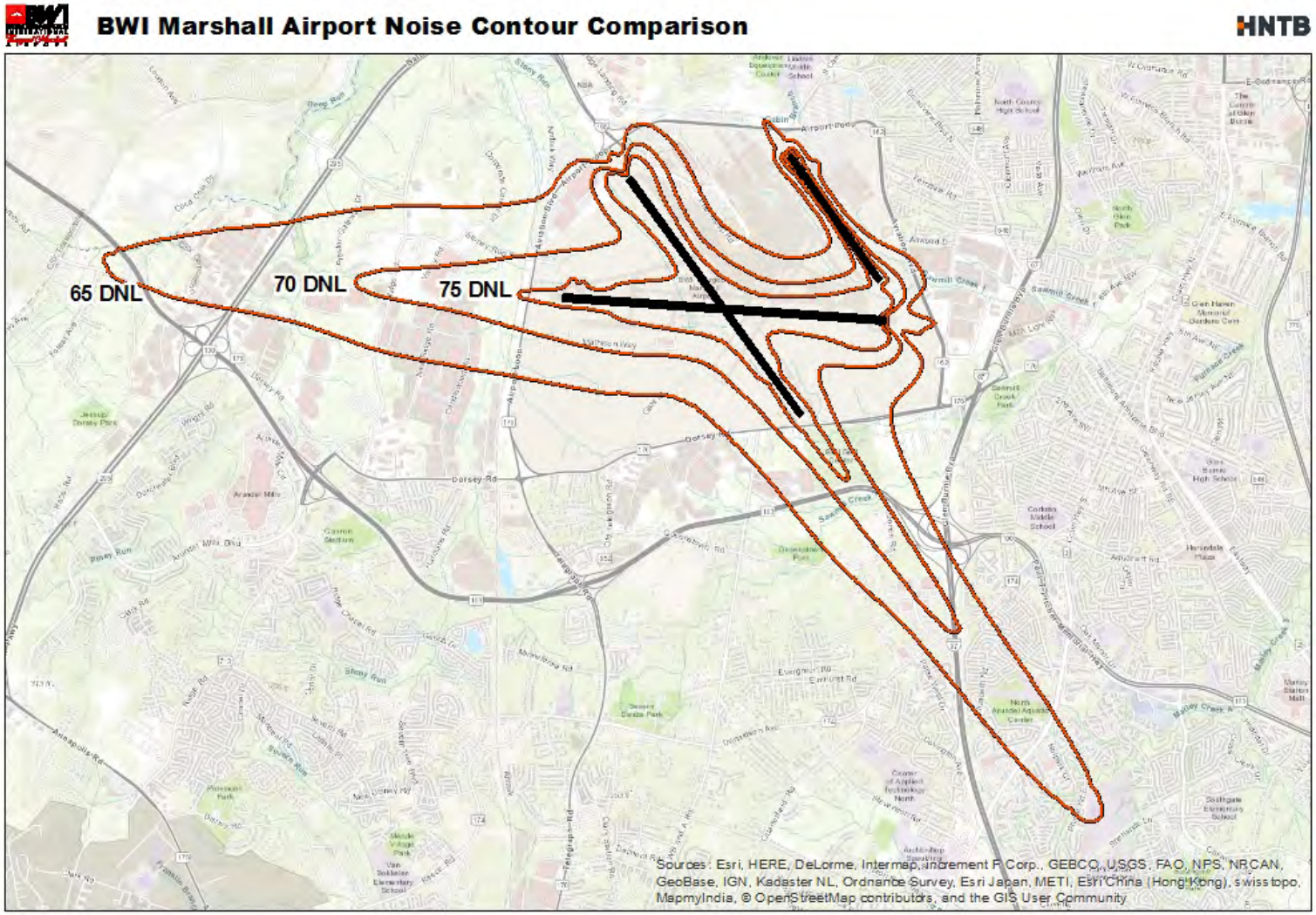


LEGEND

2025 Proposed Action Noise Contour

BWI Airport Runway

Figure K-3-5: BWI EA (2025) Proposed Actions Noise Contour



LEGEND

2025 No Action Noise Contour

BWI Airport Runway

Figure K-3-6: BWI EA (2025) No Action Noise Contour

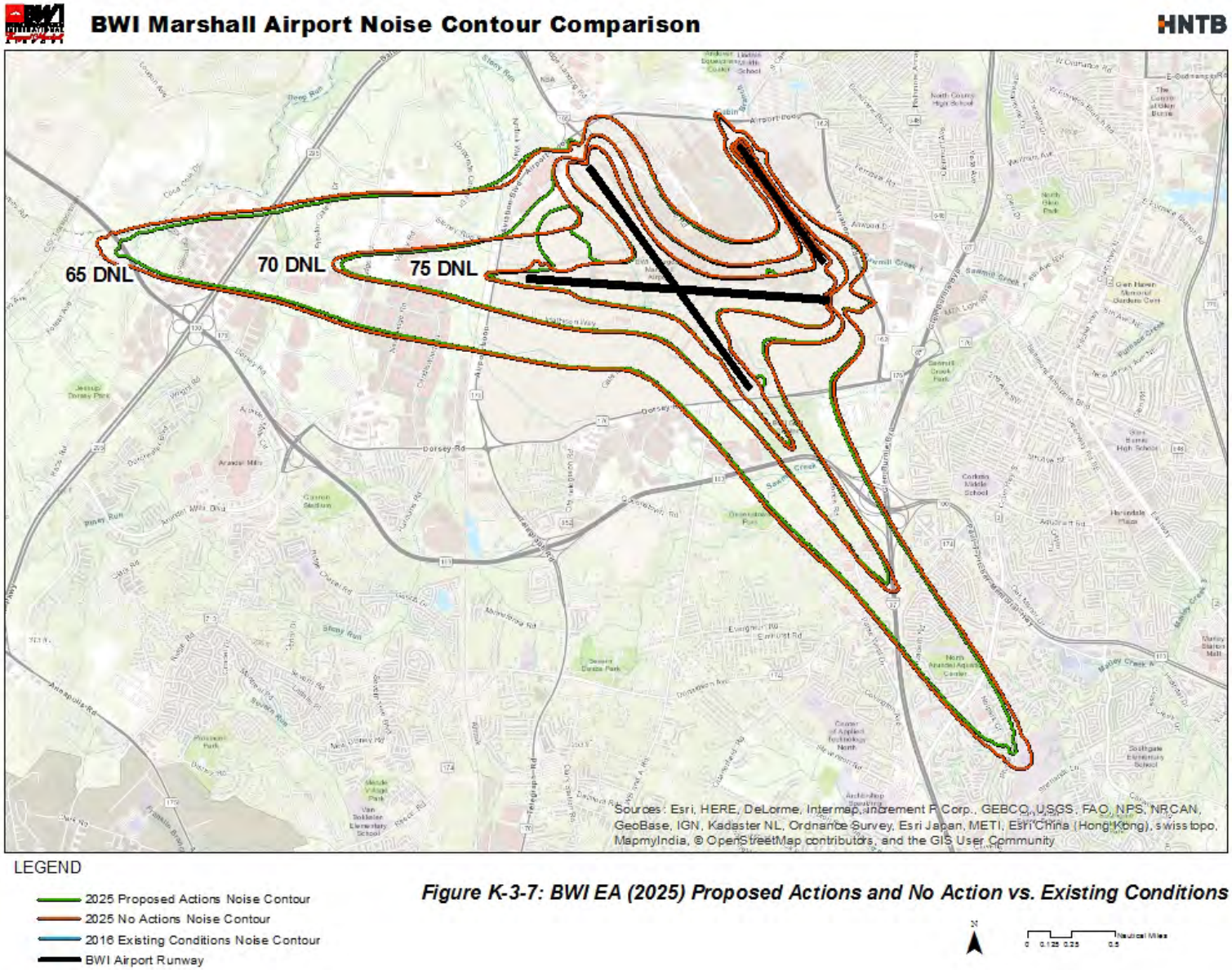
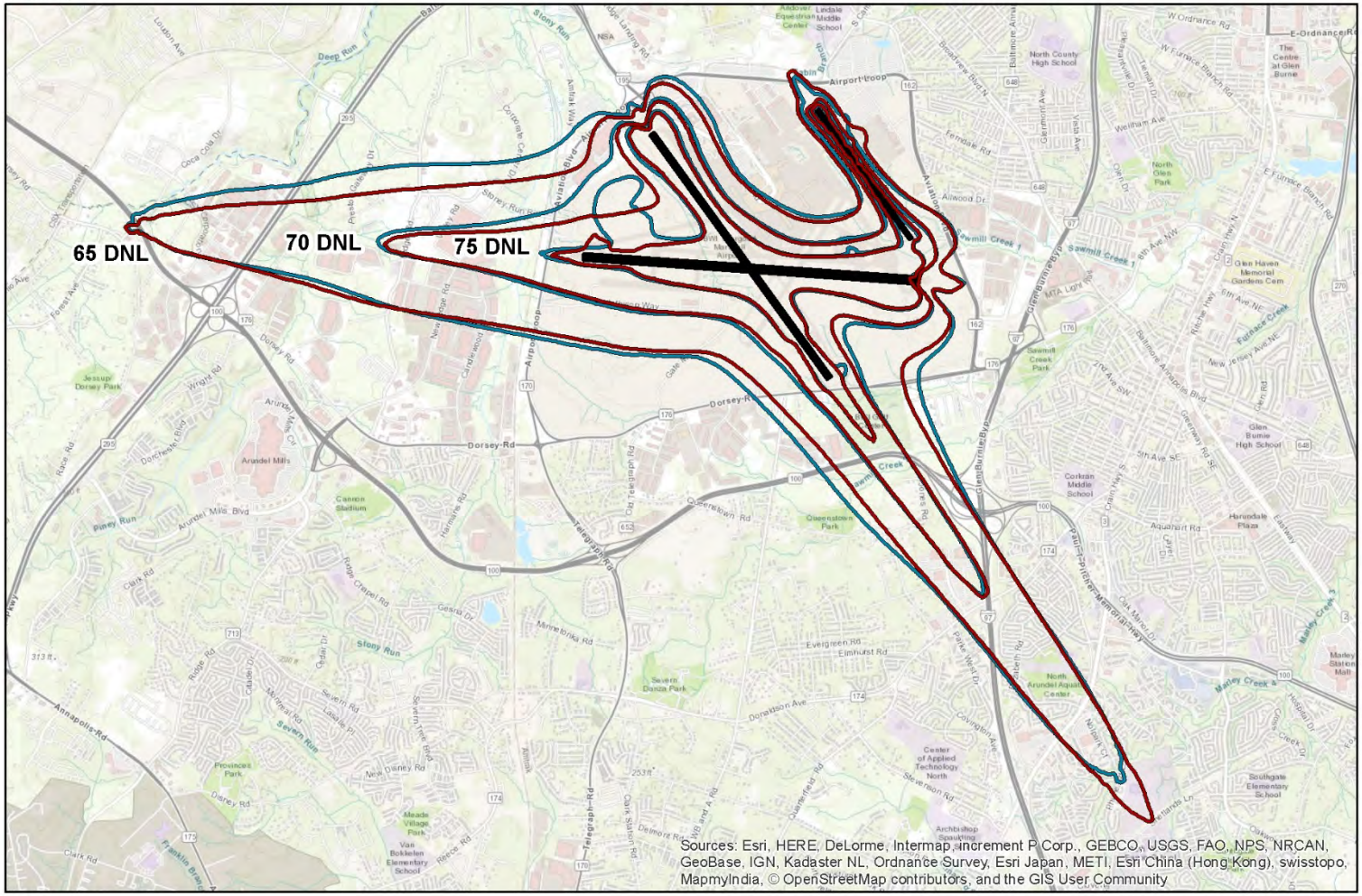


Figure K-3-7: BWI EA (2025) Proposed Actions and No Action vs. Existing Conditions

BWI Marshall Airport Noise Contour Comparison

HNTB



LEGEND

- Part 150 Study 2019 Noise Contour
- BWI EA 2020 Noise Contour
- BWI Airport Runway

Figure K-3-8: Comparison of BWI EA 2020 Noise Contour vs Part 150 Study 2019 Noise Contour

N

0 0.125 0.25 0.5 Nautical Miles

Attachment 1:

Future Scenarios Fleet Mix Tables

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Table K.1
Fleet Mix in 2020

Aircraft Category	AEDT Aircraft ID	Arrivals		Departures		Touch-and-Go		Total
		Day	Night	Day	Night	Day	Night	
Air Carrier	717200	0.32	0.28	0.31	0.28	-	-	1.19
	737300	0.01	-	0.01	0.00	-	-	0.02
	7373B2	0.01	-	0.01	0.00	-	-	0.02
	737400	0.45	0.14	0.48	0.11	-	-	1.17
	737700	153.33	22.82	152.91	23.24	-	-	352.30
	737800	37.64	10.18	38.91	8.92	-	-	95.64
	737MAX	11.91	1.66	11.74	1.84	-	-	27.15
	737N17	0.01	0.00	0.01	-	-	-	0.02
	738MAX	9.31	1.77	9.43	1.65	-	-	22.16
	747400	0.32	0.13	0.17	0.28	-	-	0.90
	757300	0.03	-	0.03	0.01	-	-	0.07
	757PW	0.60	0.76	0.98	0.39	-	-	2.73
	757RR	0.11	0.44	0.44	0.11	-	-	1.10
	767300	2.00	2.26	1.64	2.62	-	-	8.52
	767400	0.01	0.01	0.01	0.01	-	-	0.03
	767CF6	0.58	0.57	0.45	0.70	-	-	2.30
	767JT9	0.01	-	0.01	-	-	-	0.02
	777200	0.13	0.06	0.14	0.06	-	-	0.39
	7773ER	0.07	0.05	0.07	0.05	-	-	0.25
	7878R	0.66	0.02	0.60	0.08	-	-	1.37
	A300-622R	0.02	0.03	0.02	0.03	-	-	0.11
	A310-304	0.01	-	-	0.01	-	-	0.02
	A319-131	12.56	2.03	12.79	1.80	-	-	29.19
	A320-211	2.85	0.83	3.41	0.27	-	-	7.36
	A320-232	7.38	3.24	8.49	2.13	-	-	21.24
	A320NEO	1.75	0.80	2.13	0.42	-	-	5.10
	A321-232	6.17	2.63	8.07	0.74	-	-	17.62
	A321NEO	0.00	0.14	0.06	0.08	-	-	0.28
	A330-301	0.00	0.00	0.01	-	-	-	0.01
	A330-343	0.00	0.00	0.00	-	-	-	0.01
	A340-211	0.01	-	0.01	-	-	-	0.01
	CL600	1.94	0.67	1.72	0.88	-	-	5.21
	CNA208	2.63	1.25	2.64	1.24	-	-	7.76
	CRJ9-ER	2.16	0.29	2.38	0.07	-	-	4.90
	CRJ9-LR	0.04	0.00	0.04	-	-	-	0.08
	DC93LW	-	0.00	0.00	-	-	-	0.01
	DHC8	2.48	0.05	2.50	0.02	-	-	5.06

Table K.1
Fleet Mix in 2020

Aircraft Category	AEDT Aircraft ID	Arrivals		Departures		Touch-and-Go		Total
		Day	Night	Day	Night	Day	Night	
	DHC830	2.09	0.63	2.16	0.57	-	-	5.45
	EMB14L	5.24	0.02	5.09	0.18	-	-	10.53
	EMB170	0.40	0.22	0.44	0.18	-	-	1.24
	EMB175	1.59	0.67	1.56	0.69	-	-	4.52
	EMB190	5.91	0.33	4.99	1.25	-	-	12.47
	HS748A	0.01	-	0.00	0.00	-	-	0.01
	MD82	0.00	-	0.00	-	-	-	0.01
	MD83	0.02	0.01	0.02	0.00	-	-	0.06
	MD9025	0.56	0.09	0.61	0.04	-	-	1.31
	MD9028	0.63	0.10	0.68	0.05	-	-	1.46
Air Carrier Total		254.88	49.81	258.43	46.26	-	-	609.38
Air Taxi	BEC58P	0.08	-	0.08	-	-	-	0.16
	CIT3	0.01	0.00	0.02	-	-	-	0.03
	CL600	0.91	0.05	0.91	0.04	-	-	1.91
	CNA172	0.03	-	0.03	-	-	-	0.06
	CNA182	0.04	-	0.04	-	-	-	0.07
	CNA208	1.34	0.67	1.32	0.69	-	-	4.02
	CNA441	0.01	0.01	0.02	-	-	-	0.03
	CNA500	0.86	0.07	0.89	0.04	-	-	1.86
	CNA510	0.07	0.14	0.06	0.15	-	-	0.42
	CNA55B	0.90	0.05	0.92	0.03	-	-	1.90
	CNA560E	0.13	0.01	0.13	0.01	-	-	0.28
	CNA560U	0.13	0.01	0.13	0.01	-	-	0.28
	CNA560XL	1.91	0.12	1.93	0.09	-	-	4.04
	CNA680	0.37	0.02	0.37	0.02	-	-	0.78
	CNA750	1.24	0.09	1.28	0.05	-	-	2.65
	COMSEP	0.12	-	0.12	-	-	-	0.25
	DHC6	0.51	0.05	0.52	0.04	-	-	1.12
	ECLIPSE500	0.02	-	0.02	-	-	-	0.04
	EMB120	0.02	0.00	0.03	-	-	-	0.06
	EMB145	2.30	0.23	2.36	0.17	-	-	5.06
	EMB14L	2.46	0.20	2.45	0.21	-	-	5.32
	F10062	0.08	0.00	0.08	0.00	-	-	0.16
	GASEPF	0.02	-	0.02	-	-	-	0.04
	GASEPV	0.04	0.01	0.04	0.01	-	-	0.09
	GIV	0.13	0.01	0.13	0.01	-	-	0.29
	GV	0.20	0.01	0.20	0.01	-	-	0.42

Table K.1
Fleet Mix in 2020

Aircraft Category	AEDT Aircraft ID	Arrivals		Departures		Touch-and-Go		Total
		Day	Night	Day	Night	Day	Night	
	IA1125	0.77	0.07	0.77	0.07	-	-	1.69
	LEAR35	0.87	0.09	0.89	0.08	-	-	1.93
	SF340	0.01	-	0.01	-	-	-	0.02
Air Taxi Total		15.57	1.92	15.75	1.74	-	-	34.97
General Aviation	1900D	0.01	-	0.01	-	-	-	0.03
	737300	0.00	-	0.00	-	-	-	0.01
	7373B2	0.00	-	0.00	-	-	-	0.01
	737700	0.04	-	0.04	-	-	-	0.07
	757PW	0.00	-	0.00	0.00	-	-	0.01
	757RR	0.00	-	0.00	0.00	-	-	0.01
	767300	0.01	-	0.01	-	-	-	0.02
	A109	0.02	-	0.01	0.00	-	-	0.03
	A319-131	0.01	-	0.01	-	-	-	0.02
	B206B3	0.00	-	0.00	-	-	-	0.00
	B212	0.00	-	0.00	-	-	-	0.00
	B407	0.03	0.00	0.03	0.00	-	-	0.07
	B427	0.01	-	0.01	-	-	-	0.01
	B429	0.01	-	0.01	-	-	-	0.01
	B430	0.01	0.01	0.01	-	-	-	0.03
	BEC58P	0.53	0.02	0.52	0.03	-	-	1.10
	CIT3	0.21	0.02	0.21	0.02	-	-	0.47
	CL600	1.21	0.08	1.25	0.05	-	-	2.59
	CNA172	0.23	0.04	0.23	0.04	0.02	-	0.55
	CNA182	0.16	0.00	0.17	0.00	0.01	-	0.34
	CNA206	0.28	0.00	0.28	-	0.01	-	0.57
	CNA208	0.89	0.16	0.91	0.14	0.00	-	2.10
	CNA20T	0.01	-	0.01	-	-	-	0.01
	CNA441	0.51	0.01	0.51	0.01	-	-	1.04
	CNA500	1.38	0.13	1.43	0.08	-	-	3.03
	CNA510	0.20	0.03	0.21	0.02	-	-	0.47
	CNA525C	0.20	0.01	0.20	0.02	-	-	0.43
	CNA55B	0.42	0.04	0.42	0.04	-	-	0.92
	CNA560E	0.08	0.01	0.08	0.01	-	-	0.17
	CNA560U	0.08	0.01	0.08	0.01	-	-	0.17
	CNA560XL	0.94	0.03	0.94	0.03	-	-	1.93
	CNA680	0.89	0.10	0.93	0.06	-	-	1.97
	CNA750	1.35	0.08	1.37	0.07	-	-	2.87

Table K.1
Fleet Mix in 2020

Aircraft Category	AEDT Aircraft ID	Arrivals		Departures		Touch-and-Go		Total
		Day	Night	Day	Night	Day	Night	
	COMSEP	1.87	0.07	1.89	0.05	0.03	-	3.92
	CRJ9-ER	0.01	0.00	0.02	-	-	-	0.03
	CRJ9-LR	0.01	0.00	0.02	-	-	-	0.03
	DHC6	1.25	0.09	1.25	0.09	-	-	2.68
	DHC8	0.12	-	0.12	-	-	-	0.25
	DHC830	0.02	0.00	0.02	0.00	-	-	0.05
	DO328	0.01	-	0.01	-	-	-	0.01
	EC130	0.00	-	0.00	-	-	-	0.00
	ECLIPSE500	0.06	0.01	0.06	0.00	-	-	0.13
	EMB145	0.04	0.02	0.06	0.01	-	-	0.13
	F10062	0.40	0.02	0.39	0.03	-	-	0.83
	GASEPF	0.60	0.01	0.60	0.01	0.04	-	1.27
	GASEPV	0.71	0.06	0.76	0.01	0.05	-	1.59
	GIV	0.54	0.04	0.54	0.04	-	-	1.17
	GV	0.85	0.14	0.89	0.10	-	-	1.98
	IA1125	0.91	0.04	0.89	0.05	-	-	1.89
	LEAR35	1.13	0.13	1.12	0.15	-	-	2.54
	MU3001	0.02	-	0.02	-	-	-	0.03
	PA30	0.00	-	0.00	-	-	-	0.01
	PA42	0.03	-	0.03	0.00	-	-	0.07
	R22	0.01	-	0.01	-	-	-	0.01
	R44	0.01	-	0.01	-	-	-	0.02
	S70	0.00	-	0.00	-	-	-	0.00
	S76	0.05	-	0.05	-	-	-	0.11
	SA330J	0.03	-	0.03	-	-	-	0.07
	SA355F	0.00	0.00	0.00	0.01	-	-	0.01
General Aviation Total		18.42	1.44	18.68	1.18	0.16	-	39.87
Military	737700	0.07	-	0.07	-	-	-	0.15
	C-130E	0.61	0.17	0.61	0.17	-	-	1.57
	C130HP	-	0.03	-	0.03	-	-	0.06
	CNA55B	0.08	-	0.07	0.01	-	-	0.16
	CNA560E	0.08	-	0.07	0.01	-	-	0.16
	CNA560U	0.08	-	0.07	0.01	-	-	0.16
	CNA560XL	0.08	-	0.07	0.01	-	-	0.16
	DC93LW	0.03	-	0.03	-	-	-	0.06
	DHC6	0.55	-	0.55	-	-	-	1.09
	GASEPF	0.10	-	0.10	-	-	-	0.20

Table K.1
Fleet Mix in 2020

Aircraft Category	AEDT Aircraft ID	Arrivals		Departures		Touch-and-Go		Total
		Day	Night	Day	Night	Day	Night	
	GV	0.11	-	0.11	-	-	-	0.22
	LEAR35	0.05	-	0.05	-	-	-	0.11
Military Total		1.85	0.20	1.82	0.24	-	-	4.11
Grand Total		309.79	58.78	314.41	54.16	0.16	-	737.31

Sources: HNTB Fleet Mix Forecast for BWI EA, 2016.

Table K.2
Fleet Mix in 2025

Aircraft Category	AEDT Aircraft ID	Arrivals		Departures		Touch-and-Go		Total
		Day	Night	Day	Night	Day	Night	
Air Carrier	717200	0.05	-	0.05	0.01	-	-	0.11
	737300	0.01	-	0.01	0.00	-	-	0.03
	7373B2	0.01	-	0.01	0.00	-	-	0.03
	737400	0.18	0.05	0.21	0.02	-	-	0.46
	737700	140.74	21.14	140.37	21.52	-	-	323.76
	737800	25.87	9.25	28.40	6.72	-	-	70.24
	737MAX	36.10	5.04	35.57	5.57	-	-	82.28
	737N17	0.01	0.00	0.01	-	-	-	0.03
	738MAX	20.16	3.41	20.19	3.38	-	-	47.14
	747400	0.31	0.12	0.14	0.30	-	-	0.86
	757300	0.04	-	0.03	0.01	-	-	0.07
	757PW	0.29	0.63	0.68	0.24	-	-	1.83
	757RR	0.12	0.49	0.50	0.11	-	-	1.22
	767300	1.70	2.52	1.36	2.86	-	-	8.45
	767400	0.01	0.01	0.01	0.01	-	-	0.04
	767CF6	0.65	0.64	0.50	0.79	-	-	2.58
	767JT9	0.01	-	0.01	-	-	-	0.02
	777200	0.15	0.07	0.16	0.06	-	-	0.46
	7773ER	0.09	0.06	0.09	0.06	-	-	0.31
	7878R	1.25	0.04	1.12	0.16	-	-	2.57
	A300-622R	0.02	0.03	0.02	0.03	-	-	0.11
	A310-304	0.01	-	-	0.01	-	-	0.02
	A319-131	14.50	2.28	14.80	1.98	-	-	33.57
	A320-211	3.94	1.22	4.81	0.35	-	-	10.33
	A320-232	8.29	3.65	9.56	2.39	-	-	23.89
	A320NEO	8.21	1.87	9.26	0.82	-	-	20.17

Table K.2
Fleet Mix in 2025

Aircraft Category	AEDT Aircraft ID	Arrivals		Departures		Touch-and-Go		Total
		Day	Night	Day	Night	Day	Night	
	A321-232	6.89	3.40	9.16	1.13	-	-	20.57
	A321NEO	0.02	1.12	0.48	0.67	-	-	2.29
	A330-301	0.30	-	0.30	-	-	-	0.59
	A330-343	0.30	-	0.30	-	-	-	0.59
	A340-211	0.00	-	0.00	-	-	-	0.01
	CL600	2.99	0.62	2.76	0.85	-	-	7.23
	CNA208	2.94	1.40	2.95	1.39	-	-	8.69
	CRJ9-ER	2.53	0.36	2.78	0.11	-	-	5.78
	CRJ9-LR	0.05	0.00	0.05	-	-	-	0.10
	DC93LW	-	0.00	0.00	-	-	-	0.01
	DHC8	1.41	0.03	1.42	0.01	-	-	2.88
	DHC830	1.15	0.36	1.17	0.34	-	-	3.02
	EMB14L	3.13	0.01	3.04	0.11	-	-	6.29
	EMB170	3.04	0.29	3.04	0.29	-	-	6.66
	EMB175	1.95	0.86	1.92	0.89	-	-	5.63
	EMB190	6.77	0.37	5.72	1.43	-	-	14.29
	HS748A	0.01	-	0.00	0.00	-	-	0.01
Air Carrier Total		254.88	49.81	258.43	46.26	-	-	609.38
Air Taxi	BEC58P	0.10	-	0.10	-	-	-	0.20
	CIT3	0.01	0.00	0.02	-	-	-	0.03
	CL600	1.09	0.06	1.09	0.05	-	-	2.29
	CNA172	0.03	-	0.03	-	-	-	0.06
	CNA182	0.04	-	0.04	-	-	-	0.09
	CNA208	1.54	0.77	1.51	0.80	-	-	4.62
	CNA441	0.01	0.01	0.02	-	-	-	0.03
	CNA500	0.98	0.08	1.02	0.05	-	-	2.13
	CNA510	0.09	0.18	0.08	0.20	-	-	0.55
	CNA55B	1.05	0.06	1.07	0.03	-	-	2.21
	CNA560E	0.15	0.01	0.15	0.01	-	-	0.32
	CNA560U	0.15	0.01	0.15	0.01	-	-	0.32
	CNA560XL	2.25	0.14	2.28	0.11	-	-	4.78
	CNA680	0.46	0.03	0.46	0.02	-	-	0.97
	CNA750	1.39	0.10	1.43	0.05	-	-	2.96
	COMSEP	0.14	-	0.14	-	-	-	0.29
	DHC6	0.62	0.07	0.64	0.05	-	-	1.38
	ECLIPSE500	0.02	-	0.02	-	-	-	0.05
	EMB120	0.03	0.00	0.03	-	-	-	0.06

Table K.2
Fleet Mix in 2025

Aircraft Category	AEDT Aircraft ID	Arrivals		Departures		Touch-and-Go		Total
		Day	Night	Day	Night	Day	Night	
	EMB145	2.74	0.28	2.82	0.20	-	-	6.05
	EMB14L	2.93	0.24	2.92	0.25	-	-	6.34
	F10062	0.09	0.01	0.09	0.01	-	-	0.19
	GASEPF	0.02	-	0.02	-	-	-	0.05
	GASEPV	0.05	0.01	0.05	0.01	-	-	0.12
	GIV	0.15	0.02	0.15	0.02	-	-	0.33
	GV	0.23	0.01	0.23	0.01	-	-	0.49
	IA1125	0.88	0.08	0.88	0.08	-	-	1.93
	LEAR35	1.01	0.11	1.02	0.09	-	-	2.22
	SF340	0.01	-	0.01	-	-	-	0.03
Air Taxi Total		18.27	2.28	18.49	2.06	-	-	41.09
General Aviation	1900D	0.01	-	0.01	-	-	-	0.02
	737300	0.00	-	0.00	-	-	-	0.01
	7373B2	0.00	-	0.00	-	-	-	0.01
	737700	0.04	-	0.04	-	-	-	0.07
	757PW	0.00	-	0.00	0.00	-	-	0.01
	757RR	0.00	-	0.00	0.00	-	-	0.01
	767300	0.01	-	0.01	-	-	-	0.02
	A109	0.02	-	0.02	0.00	-	-	0.04
	A319-131	0.01	-	0.01	-	-	-	0.02
	B206B3	0.00	-	0.00	-	-	-	0.00
	B212	0.00	-	0.00	-	-	-	0.00
	B407	0.03	0.00	0.04	0.00	-	-	0.08
	B427	0.01	-	0.01	-	-	-	0.01
	B429	0.01	-	0.01	-	-	-	0.01
	B430	0.01	0.01	0.02	-	-	-	0.03
	BEC58P	0.48	0.02	0.47	0.03	-	-	0.99
	CIT3	0.21	0.02	0.21	0.02	-	-	0.46
	CL600	1.25	0.09	1.28	0.05	-	-	2.66
	CNA172	0.21	0.03	0.21	0.03	0.02	-	0.50
	CNA182	0.15	0.00	0.16	0.00	0.01	-	0.32
	CNA206	0.21	0.00	0.21	-	0.01	-	0.43
	CNA208	0.93	0.17	0.95	0.15	0.00	-	2.20
	CNA20T	0.01	-	0.01	-	-	-	0.01
	CNA441	0.53	0.01	0.53	0.01	-	-	1.08
	CNA500	1.42	0.14	1.47	0.09	-	-	3.11
	CNA510	0.20	0.03	0.22	0.02	-	-	0.48

Table K.2
Fleet Mix in 2025

Aircraft Category	AEDT Aircraft ID	Arrivals		Departures		Touch-and-Go		Total
		Day	Night	Day	Night	Day	Night	
	CNA525C	0.22	0.01	0.22	0.02	-	-	0.47
	CNA55B	0.44	0.04	0.43	0.04	-	-	0.95
	CNA560E	0.08	0.01	0.08	0.01	-	-	0.17
	CNA560U	0.08	0.01	0.08	0.01	-	-	0.17
	CNA560XL	0.97	0.03	0.96	0.03	-	-	1.99
	CNA680	0.93	0.10	0.97	0.06	-	-	2.06
	CNA750	1.39	0.08	1.41	0.07	-	-	2.95
	COMSEP	2.01	0.07	2.04	0.05	0.04	-	4.22
	CRJ9-ER	0.01	0.00	0.02	-	-	-	0.03
	CRJ9-LR	0.01	0.00	0.02	-	-	-	0.03
	DHC6	1.22	0.09	1.22	0.08	-	-	2.61
	DHC8	0.13	-	0.13	-	-	-	0.27
	DHC830	0.02	0.00	0.02	0.00	-	-	0.05
	DO328	0.01	-	0.01	-	-	-	0.01
	EC130	0.00	-	0.00	-	-	-	0.00
	ECLIPSE500	0.06	0.01	0.07	0.00	-	-	0.14
	EMB145	0.04	0.03	0.06	0.01	-	-	0.14
	F10062	0.41	0.02	0.40	0.03	-	-	0.85
	GASEPF	0.59	0.01	0.59	0.01	0.04	-	1.24
	GASEPV	0.67	0.06	0.71	0.01	0.05	-	1.50
	GIV	0.55	0.04	0.55	0.04	-	-	1.18
	GV	0.88	0.15	0.92	0.11	-	-	2.05
	IA1125	0.92	0.04	0.91	0.05	-	-	1.92
	LEAR35	1.15	0.13	1.13	0.15	-	-	2.56
	MU3001	0.02	-	0.02	-	-	-	0.03
	PA30	0.00	-	0.00	-	-	-	0.01
	PA42	0.03	-	0.03	0.00	-	-	0.06
	R22	0.01	-	0.01	-	-	-	0.01
	R44	0.01	-	0.01	-	-	-	0.02
	S70	0.00	-	0.00	-	-	-	0.00
	S76	0.06	-	0.06	-	-	-	0.12
	SA330J	0.04	-	0.04	-	-	-	0.07
	SA355F	0.00	0.00	0.00	0.01	-	-	0.01
General Aviation Total		18.69	1.47	18.96	1.20	0.16	-	40.48
Military	737700	0.08	-	0.08	-	-	-	0.16
	C-130E	0.55	0.16	0.55	0.16	-	-	1.42
	C130HP	-	0.03	-	0.03	-	-	0.07

Table K.2
Fleet Mix in 2025

Aircraft Category	AEDT Aircraft ID	Arrivals		Departures		Touch-and-Go		Total
		Day	Night	Day	Night	Day	Night	
	CNA55B	0.09	-	0.08	0.01	-	-	0.17
	CNA560E	0.09	-	0.08	0.01	-	-	0.17
	CNA560U	0.09	-	0.08	0.01	-	-	0.17
	CNA560XL	0.09	-	0.08	0.01	-	-	0.17
	DC93LW	0.04	-	0.04	-	-	-	0.07
	DHC6	0.58	-	0.58	-	-	-	1.15
	GASEPF	0.09	-	0.09	-	-	-	0.19
	GV	0.12	-	0.12	-	-	-	0.24
	LEAR35	0.06	-	0.06	-	-	-	0.11
Military Total		1.86	0.19	1.83	0.23	-	-	4.11
Grand Total		335.06	65.31	342.26	58.11	0.16	-	800.90

Sources: HNTB Fleet Mix Forecast for BWI EA, 2016.

Attachment 2:

AEDT Noise and Emissions Analysis

of the Proposed Midfield Cargo Facility Improvements

Attachment 2: AEDT Noise and Emissions Analysis of the Proposed Midfield Cargo Facility Improvements

This analysis serves as an extension of the noise analysis from the Draft Environmental Assessment and Draft Section 4(f) Determination for Proposed Improvements 2016-2020 at BWI Marshall Airport (BWI EA). This document includes the data sources, assumptions, and methodologies applied in assessing noise impacts of the 2018 Proposed Action Midfield Cargo Facility Improvements operations. The Existing Conditions in this analysis are the same as the Existing Conditions in the BWI EA. The 2018 No Action (Year 2020) for this analysis was based on the 2020 Proposed Action Alternative of the Draft EA/Section 4(f) Determination for 2016-2020 Improvements at BWI Marshall Airport (see Attachment 1: *Appendix K-3, Future Scenarios Noise Analysis* from the BWI EA) plus the operations associated with the existing parking positions at the Midfield Cargo Facility. The 2018 Proposed Action (Year 2020) for this analysis includes the 2018 No Action operations plus the operations associated with the proposed new parking positions at the Midfield Cargo Facility.

1 NOISE MODEL INPUTS

Noise contours in this analysis were modeled using AEDT 2d. This section describes inputs to the noise model including the fleet mix, day/night split, stage length, runway use, track use, and run-up operations.

1.1 Fleet Mix

The 2018 No Action in this analysis (BWI EA 2020 Proposed Action plus the operations associated with the existing parking positions at the Midfield Cargo Facility) includes 749.3 Average Annual Day (AAD) operations. The 2018 Proposed Action operations include five additional AAD arrivals and five additional AAD departures by Boeing 767-300 widebody freighters (the proposed new parking positions at the Midfield Cargo Facility and the aircraft planned for use by the Cargo Operator), the most common widebody aircraft currently being purchased for all-cargo operations. Therefore, the 2018 Proposed Action represents an increase of 1.3% in operations compared with the 2018 No Action.

1.2 Day/Night Split

Based on input from the Midfield Cargo Operator for day/night split of existing operations in the Midfield Cargo area, it was calculated that 58.3% of the Midfield Cargo Facility operations would occur during acoustic daytime hours, and 41.7% of the cargo operations would occur during

acoustic nighttime hours for the 2018 No Action in the year 2020. Based on input from the Midfield Cargo Operator for specific operations that would occur at night and during the day, it was calculated that 59.1% of the Midfield Cargo Facility Improvements operations would occur during acoustic daytime hours, and 40.9% of the cargo operations would occur during acoustic nighttime hours for the 2018 Proposed Action in the year 2020.

1.3 Stage Length

Based on an analysis of the existing cargo operations of the potential Midfield Cargo Operator, it was assumed that the departure stage length distribution in **Table 1** would apply.

Table 1
Stage Length Distribution

Stage Length	Percent
1	27.4%
2	23.3%
3	22.8%
4	26.5%
Total	**100.0%**

Source: HNTB analysis of US DOT T100 data.

1.4 Runway Use

It was assumed that the Boeing 767-300 freighters would utilize the runways in the same manner as the Boeing 767-300 in the Existing Conditions. **Table 2** shows the overall runway use in the 2018 No Action and Proposed Action Alternatives.

Table 2
2018 No Action and 2018 Proposed Action Runway Utilization

Runway	2018 No Action (Year 2020)				2018 Proposed Action (Year 2020)			
	Arrivals		Departures		Arrivals		Departures	
	Day	Night	Day	Night	Day	Night	Day	Night
10	27.8%	30.9%	0.2%	0.3%	27.9%	30.8%	0.2%	0.3%
28	3.3%	3.9%	61.6%	62.2%	3.3%	3.9%	61.6%	62.2%
15L	2.2%	1.4%	2.9%	2.0%	2.2%	1.4%	2.9%	1.9%
33R	6.7%	3.8%	6.7%	4.1%	6.6%	3.8%	6.7%	3.9%
15R	1.6%	2.2%	28.4%	29.8%	1.6%	2.2%	28.5%	30.0%
33L	58.4%	57.7%	0.1%	1.7%	58.4%	57.9%	0.1%	1.8%
H01	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Sources: Radar Data and HNTB Analysis 2018.

Since the additional Boeing 767-300 operations associated with the 2018 Proposed Action Midfield Cargo Facility Improvements only account for approximately 1.3% of total operations, runway use changes between the 2018 No Action and 2018 Proposed Action are expected to be minor.

1.5 Track Use

This analysis assumes no changes to the track geometry or track use in the 2018 Proposed Action as compared with the 2018 No Action.

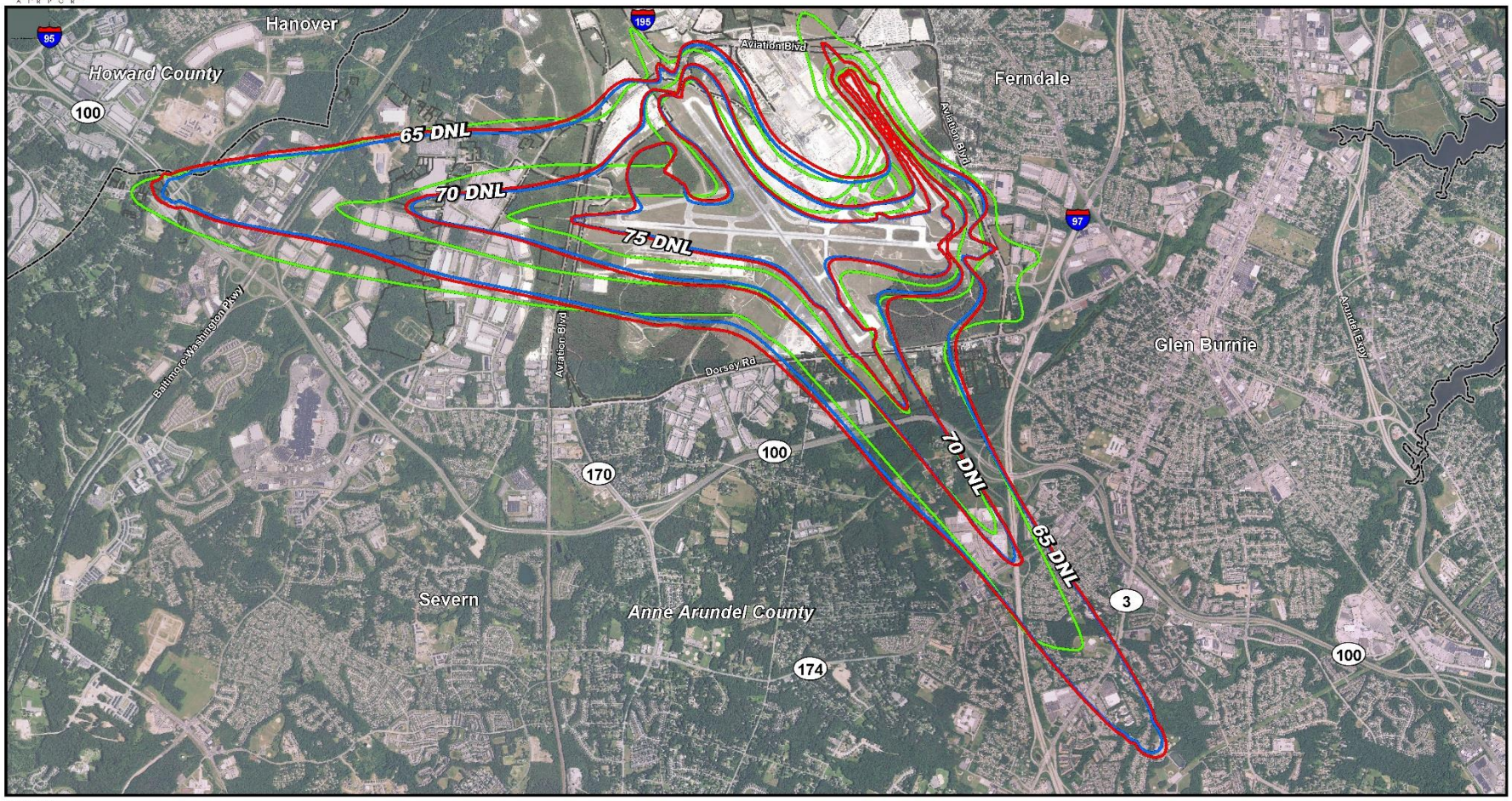
1.6 Aircraft Maintenance Engine Run-ups

This analysis assumes no additional run-up operations in the 2018 Proposed Action as compared with the 2018 No Action. The 2018 Proposed Action does not involve any changed or added facilities for aircraft maintenance, so no changes in run-up activity would be expected.

2 NOISE CONTOURS

Using the inputs described in the section above, the 2018 No Action and 2018 Proposed Action noise contours for the year 2020 were modeled using AEDT 2d. **Figure 1** compares the 2018 No Action and 2018 Proposed Action noise contours for the year 2020, with the 1998 EA Proposed Action noise contour for the year 2015. The noise analysis outputs indicate that the areas under the 65+ DNL contour in the 2018 Proposed Action would increase approximately 6.5% compared with the 2018 No Action. In comparison, the number of operations is expected to increase approximately 1.3%. The larger increase in the noise contour size can be attributed to the conservative assumptions regarding aircraft type and operational day/night split. The Boeing 767-300 is a widebody aircraft with relatively higher noise footprints than smaller jets and propellers. Additionally, the proposed operations include approximately 40% nighttime operations. As discussed in the previous section, nighttime operations are penalized by 10dB to account for their additional annoyance at night when the ambient noise is low and people are asleep.

Midfield Improvements



LEGEND

- 2018 No Action Noise Contour (Year 2020)
- 2018 Proposed Action Noise Contour (Year 2020)
- 1998 EA Proposed Action Noise Contour (Year 2015)
- BWI Airport Property
- County Boundary

Noise Contour Comparison
Figure 1

N

0 1,500 3,000 6,000 Feet

Source: Aerial - MDOT MAA (2016), National Park Service, Maryland Department of Planning, Google Earth

2.1 Comparison to 1998 EA

A visual analysis of the noise impacts defined in the 1998 EA Proposed Action shows that the noise exposure (illustrated in Figure 1) with the buildout of the Midfield Cargo Facility (Year 2015) is less off of all runway ends with the exception of Runway 33L, as compared to the noise exposure map for the 2018 Proposed Action (Year 2020). The projected contour south of Runway 33L is longer than the 1998 EA contour. This change is due to runway use changes that have occurred at the Airport unrelated to the Midfield Cargo development (i.e., changing fleet mix, changes in air carriers, changes in terminal use, etc.). **Table 3** compares the runway use assumed for the build out of the Midfield Cargo Facility in the 1998 EA to the runway use assumed in this analysis for the 2018 Proposed Action for heavy jets and large jets which are the primary contributors to the noise contour.

Table 3
Runway Use Comparison

Group	Runway	1998 EA (Year 2015)				2018 Proposed Action (Year 2020)			
		Departure		Arrival		Departure		Arrival	
		Day	Night	Day	Night	Day	Night	Day	Night
Heavy Jets	15R	25.0%	10.0%	4.0%	9.0%	37.5%	34.2%	2.2%	3.2%
	33L	2.0%	6.0%	60.0%	44.0%	0.0%	3.3%	59.1%	66.8%
	10	5.0%	2.0%	32.0%	41.0%	0.7%	0.6%	34.0%	26.6%
	28	69.0%	82.0%	5.0%	6.0%	61.7%	61.9%	4.7%	3.4%
	04	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	22	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	15L	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	33R	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Total	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*
Large Jets	15R	28.0%	17.0%	3.0%	5.0%	31.3%	31.7%	1.6%	2.1%
	33L	1.0%	3.0%	64.0%	53.0%	0.1%	1.6%	64.6%	60.7%
	10	1.0%	1.0%	28.0%	36.0%	0.1%	0.2%	30.1%	33.2%
	28	70.0%	79.0%	5.0%	7.0%	68.1%	66.4%	3.2%	3.8%
	04	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	22	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	15L	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
	33R	0.0%	0.0%	0.0%	0.0%	0.3%	0.1%	0.4%	0.3%
	Total	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

Note: Totals may not sum up due to rounding.

Note: Runway 4/22 was permanently closed on August 5, 2014.

Sources: 1998 EA Table D.7, BWI EA, and HNTB Analysis, 2018.

Heavy jet departures currently utilize Runway 15R more frequently and Runway 28 less frequently in the 2018 Proposed Action than assumed in the 1998 EA. Heavy jet nighttime arrivals utilize Runway 33L more frequently and Runway 10 less frequently in the 2018 Proposed Action than assumed in the 1998 EA. Large jet nighttime departures utilize Runway 15R more frequently and Runway 28 less frequently in the 2018 Proposed Action than in the 1998 EA. Large jet arrivals runway utilizations are generally in agreement between the 2018 Proposed Action and the 1998 EA.

Because of these changes in runway use over the span of 20 years, there are modest differences between the 2018 Proposed Action and 1998 EA noise contours. However, the size and shapes of the contours remain very similar. The noise exposure associated with the 2018 Proposed Action Midfield Cargo Facility Improvements operations add slightly to these contours.

3 AIRCRAFT EMISSIONS

The project is expected to be fully operational in the year 2020. The emissions associated with the Midfield Cargo Facility Improvements (2018 Proposed Action) including the operations associated with the existing apron and facilities in the year 2020 are provided in **Table 4.** These emissions include ground support equipment (GSE) and auxiliary power units (APU) for the estimated operations. The emissions by aircraft, GSE, and APU in this analysis were modeled using AEDT 2d.

The additional Airport operations emissions with the proposed Midfield Cargo Facility Improvements would not exceed *de minimis* levels and therefore no General Conformity determination or re-determination is necessary under the Clean Air Act. 40 C.F.R. Section 93.157(a). Additionally, the State Implementation Plan (*Maintenance Plan for the Washington DC-MD-VA 2008 Ozone NAAQS Nonattainment Area*, submitted December 20, 2017) includes emissions for BWI Marshall including: 2,028.54 tons/year of NO_X, 229.92 tons/year of SO_X, 57.07 tons/year of $PM_{2.5}$, and 448.99 tons/year of VOC, which were much higher than modeled emissions from the Airport, including the project emissions (*Appendix B1b: Technical support document for the development of area, and marine, airport, and railroad source (non-Nonroad model, MOVES2014a sources) emissions inventories for Maryland, 6/19/17*). As a result, the air quality conclusions of the 1998 EA relating to operational emissions remain valid.

Table 4
2020 Airport Operations Emissions (tons per year)

Emission Type	CO	NOx	SO_2	PM_{10}	$PM_{2.5}$	VOC
2020 Airport Operations[1]	1,465	1,116	107	21	18	197
2020 Midfield Cargo Facility Improvements Operations (2017 Expansion and 2018 Proposed)						
Aircraft, APU, GSE[2]	43	66	6	0.3	0.3	4
Surface Vehicle (On-Airport)[3]	0.5	1	0.004	0.05	0.04	0.001
Total with 2018 Proposed Action Associated Emissions	1,509	1,183	113	21	18	201
Potential BWI Marshall Construction in 2020[4]	23	7	0.03	41	4	2
Additional Emissions in 2020	67	74	6	41	4	6
De Minimis Levels	--	*100*	*100*	--	*100*	*50*
Exceed De Minimis?	--	*No*	*No*	--	*No*	*No*

Note: Airport operations include emissions from the following: aircraft, auxiliary power units, ground support units, on-airport roadways, curbsides, parking lots, boilers, generators, and training fires.

Sources:
[1] KBE analysis, *BWI Air Quality and GHG Management Plan Update (August 2017*). Inventory did not include 2017 Expansion.
[2] *AEDT, HNTB analysis, September 2018. Includes emissions for entire Midfield Cargo area and therefore overestimates emissions for the 2018 Proposed Action.*
[3] USEPA's MOVES "rate per distance" emission factors, *HNTB analysis, 2018.*
[4] *Draft EA and Draft Section 4(f) Determination Proposed Improvements 2016-2020 at BWI Marshall Airport,* Table 5.1-2 (January 2018).

4 SUMMARY

This analysis describes the noise model inputs and outputs for the proposed Midfield Cargo Facility Improvements operations. The number of operations in the 2018 Proposed Action is expected to increase by approximately 1.3% as compared to the 2018 No Action. For both the 2018 No Action and 2018 Proposed Action, approximately 60% of the Midfield Cargo Facility Improvements operations would occur during daytime hours and approximately 40% would occur during nighttime hours. The runway use is expected to change slightly as a result. The stage length distribution was based on the existing cargo operations of the potential Midfield Cargo Operator. No changes to the track geometry, track use, and engine maintenance run-ups were assumed. The output for the 2018 Proposed Action indicates an increase of approximately 5.9% of the areas under the 65+ DNL contour as compared to the 2018 No Action, due to the Boeing 767-300's relatively higher noise footprint and proposed nighttime operations. The additional Airport operations emissions with the proposed Midfield Cargo Facility Improvements would not exceed *de minimis* levels and therefore no General Conformity determination or re-determination is necessary under the Clean Air Act. 40 C.F.R. Section 93.157(a).

Attachment 3:

AEDT High Growth Noise Sensitivity Analysis

Attachment 3: AEDT High Growth Noise Sensitivity Analysis

This document includes the data sources, assumptions, and methodologies applied in assessing noise impacts of the 2018 High Growth Scenario: a conservative, high growth scenario for operations at the seven additional cargo positions proposed as part of the Midfield Cargo Facility Improvements. The 2018 High Growth Scenario for this analysis includes the 2018 No Action operations plus an additional 10 AAD aircraft departures or 7,300 annual aircraft departures from the proposed seven additional cargo positions.

1 NOISE MODEL INPUTS

Noise contours in this analysis were modeled using AEDT 2d. This section describes inputs to the noise model including the fleet mix, day/night split, stage length, runway use, track use, and run-up operations.

1.1 Fleet Mix

The 2018 High Growth Scenario operations include the 2018 No Action operations plus 10 AAD aircraft departures and 10 AAD aircraft arrivals by Boeing 767-300 widebody freighters (the aircraft planned for use by the Midfield Cargo Operator), the most common widebody aircraft currently being purchased for all-cargo operations. Therefore, the 2018 High Growth Scenario represents an increase of 2.7% in operations compared with the 2018 No Action.

1.2 Day/Night Split

Using a conservative approach for noise impacts, it was calculated that 50% of the Midfield Cargo Facility Improvements operations would occur during acoustic daytime hours, and 50% of the cargo operations would occur during acoustic nighttime hours for the 2018 High Growth Scenario.

1.3 Stage Length

Based on an analysis of the existing cargo operations of the potential Midfield Cargo Operator, it was assumed that the departure stage length distribution in **Table 1** would apply.

Table 1
Stage Length Distribution

Stage Length	Percent
1	27.4%
2	23.3%
3	22.8%
4	26.5%
Total	**100.0%**

Source: HNTB analysis of US DOT T100 data.

1.4 Runway Use

It was assumed that the Boeing 767-300 freighters would utilize the runways in the same manner as the Boeing 767-300 in the Existing Conditions. **Table 2** compares the overall runway use in the 2018 No Action and 2018 High Growth Scenario.

Table 2
2018 No Action and 2018 High Growth Runway Utilization

Runway	2018 No Action (Year 2020)				2018 High Growth Scenario			
	Arrivals		Departures		Arrivals		Departures	
	Day	Night	Day	Night	Day	Night	Day	Night
10	27.8%	30.9%	0.2%	0.3%	27.9%	30.5%	0.2%	0.3%
28	3.3%	3.9%	61.6%	62.2%	3.3%	3.9%	61.6%	62.2%
15L	2.2%	1.4%	2.9%	2.0%	2.2%	1.3%	2.9%	1.8%
33R	6.7%	3.8%	6.7%	4.1%	6.6%	3.6%	6.6%	3.7%
15R	1.6%	2.2%	28.4%	29.8%	1.6%	2.3%	28.5%	30.1%
33L	58.4%	57.7%	0.1%	1.7%	58.4%	58.5%	0.1%	1.8%
H01	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Sources: Radar Data and HNTB Analysis 2018.

Since the additional Boeing 767-300 operations associated with the 2018 High Growth Scenario Midfield Cargo Facility Improvements only account for approximately 2.7% of total operations, runway use changes between the 2018 No Action and 2018High Growth Scenario are expected to be minor.

1.5 Track Use

This analysis assumes no changes to the track geometry or track use in the 2018 High Growth Scenario as compared with the 2018 No Action.

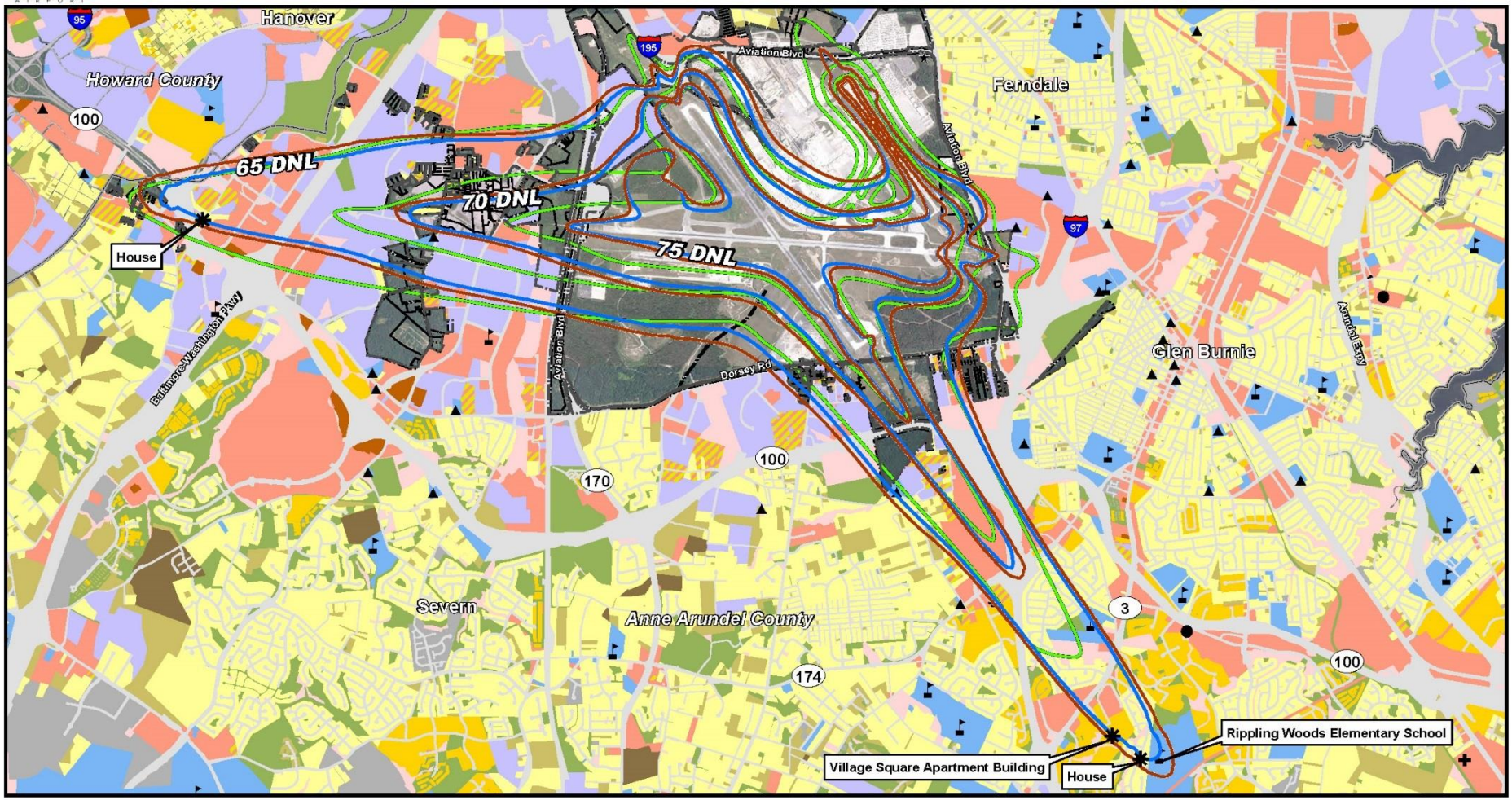
1.6 Aircraft Maintenance Engine Run-ups

This analysis assumes no additional run-up operations in the 2018 High Growth Scenario as compared with the 2018 No Action. The 2018 High Growth Scenario does not involve any changed or added facilities for aircraft maintenance, so no changes in run-up activity would be expected.

2 NOISE CONTOURS

Using the inputs described in the section above, the 2018 High Growth Scenario noise contour for the was modeled using AEDT 2d. **Figure 1** compares the 2018 No Action and 2018 High Growth Scenario noise contours, with the 1998 EA Proposed Action noise contour for the year 2015. The noise analysis outputs indicate that the areas under the 65+ DNL contour in the 2018 High Growth Scenario would increase approximately 11.3% compared with the 2018 No Action. In comparison, the number of operations is expected to increase approximately 2.7%. The larger increase in the noise contour size can be attributed to the conservative assumptions regarding aircraft type and operational day/night split. The Boeing 767-300 is a widebody aircraft with relatively higher noise footprints than smaller jets and propellers. Additionally, the proposed operations include approximately 50% nighttime operations. As discussed in the previous section, nighttime operations are penalized by 10dB to account for their additional annoyance at night when the ambient noise is low and people are asleep.

Midfield Improvements



LEGEND

- 2018 No Action Noise Contour (Year 2020)
- 2018 High Growth Scenario Noise Contour
- 1998 Proposed Action Noise Contour (Year 2015)
- Hospital
- Nursing Home
- School
- Place of Worship
- Historic Resource
- Table 4.21 Listed Housing Unit

Existing Land Use

- Single Family
- Multi-Family Residential
- Mobile Home
- Transient Lodging
- Public Use
- Recreational Open Space
- Mixed Use
- Commercial Use
- Commercial Use Exempt
- Manufacturing and Production
- Transportation
- Vacant / Undefined
- Undeveloped Zoned Residential
- BWI Airport Property
- County Boundary

High Growth Sensitivity Analysis
Noise Contours with Land Use
Figure 1

N

0 1,500 3,000 6,000 Feet

Source: Aerial - MDOT MAA (2016), National Park Service, Maryland Department of Planning, Google Earth

2.1 Comparison to 1998 EA

A visual analysis of the noise impacts defined in the 1998 EA Proposed Action shows that the noise exposure (illustrated in Figure 1) with the buildout of the Midfield Cargo Facility (Year 2015) is less off of all runway ends with the exception of Runway 33L, as compared to the noise exposure map for the 2018 High Growth Scenario. The projected contour south of Runway 33L is longer than the 1998 EA contour. This change is due to runway use changes that have occurred at the Airport unrelated to the Midfield Cargo development (i.e., changing fleet mix, changes in air carriers, changes in terminal use, etc.). **Table 3** compares the runway use assumed for the build out of the Midfield Cargo Facility in the 1998 EA to the runway use assumed in this analysis for the 2018 High Growth Scenario for heavy jets and large jets which are the primary contributors to the noise contour.

Table 3
Runway Use Comparison

Group	Runway	1998 EA (Year 2015)				2018 High Growth Scenario			
		Departure		Arrival		Departure		Arrival	
		Day	Night	Day	Night	Day	Night	Day	Night
Heavy Jets	15R	25.0%	10.0%	4.0%	9.0%	36.6%	34.2%	2.2%	3.3%
	33L	2.0%	6.0%	60.0%	44.0%	0.0%	3.2%	59.0%	67.0%
	10	5.0%	2.0%	32.0%	41.0%	0.8%	0.6%	34.0%	26.2%
	28	69.0%	82.0%	5.0%	6.0%	62.7%	62.0%	4.8%	3.5%
	04	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	22	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	15L	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	33R	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Total	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*
Large Jets	15R	28.0%	17.0%	3.0%	5.0%	31.3%	31.7%	1.6%	2.1%
	33L	1.0%	3.0%	64.0%	53.0%	0.1%	1.6%	64.6%	60.7%
	10	1.0%	1.0%	28.0%	36.0%	0.1%	0.2%	30.1%	33.2%
	28	70.0%	79.0%	5.0%	7.0%	68.1%	66.4%	3.2%	3.8%
	04	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	22	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	15L	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
	33R	0.0%	0.0%	0.0%	0.0%	0.3%	0.1%	0.4%	0.3%
	Total	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*	*100.0%*

Note: Totals may not sum up due to rounding.

Note: Runway 4/22 was permanently closed on August 5, 2014.

Sources: 1998 EA Table D.7, BWI EA, and HNTB Analysis, 2018.

Heavy jet departures currently utilize Runway 15R more frequently and Runway 28 less frequently in the 2018 High Growth Scenario than assumed in the 1998 EA. Heavy jet nighttime arrivals utilize Runway 33L more frequently and Runway 10 less frequently in the 2018 High Growth Scenario than assumed in the 1998 EA. Large jet nighttime departures utilize Runway 15R more frequently and Runway 28 less frequently in the 2018 High Growth Scenario than in the 1998 EA. Large jet arrivals runway utilizations are generally in agreement between the 2018 High Growth Scenario and the 1998 EA.

Because of these changes in runway use over the span of 20 years, there are modest differences between the 2018 High Growth Scenario and 1998 EA noise contours. However, the size and shapes of the contours remain similar. The noise exposure associated with the 2018 High Growth Scenario Midfield Cargo Facility Improvements operations add slightly to these contours.

3 SUMMARY

This analysis describes the noise model inputs and outputs for the proposed Midfield Cargo Facility Improvements under a conservative, High Growth Scenario. The number of operations in the 2018 High Growth Scenario is expected to increase by approximately 2.7% as compared to the 2018 No Action. For the 2018 No Action and 2018 High Growth Scenario, approximately 40% and 50% of the Midfield Cargo Facility Improvements operations would occur during nighttime hours, respectively. The runway use is expected to change slightly as a result. The stage length distribution was based on the existing cargo operations of the potential Midfield Cargo Operator. No changes to the track geometry, track use, and engine maintenance run-ups were assumed. The output for the 2018 High Growth Scenario indicates an increase of approximately 11.3% of the areas under the 65+ DNL contour as compared to the 2018 No Action, due to the Boeing 767-300's relatively higher noise footprint and conservative assumption of 50% nighttime operations.

Appendix G

Stormwater

BWI
ESD Computations for **Midfield Cargo Ramp Expansion - Signal Branch**

Total LOD =	1,393,491	s.f. =	31.99	ac.	

Existing impervious area in LOD=	0	s.f.	0.00	ac.
%Existing impervious area in LOD=	0%	**USE NEW DEVELOPMENT SINCE <40%**		

Pavement Removal =	0	s.f =	0.00	ac.
New Pavement =	1,393,491	s.f =	31.99	ac.
Net (ESD Required)=	1,393,491	s.f =	31.99	ac.
Redevelopment Area Requiring ESD = (50% of existing impervious area in LOD)	0	s.f =	**0.00**	**ac.**
New Development for ESD = (Net increase/decrease in impervious area)	1,393,491	s.f =	31.99	ac.
	IART	=	31.99	ac.

B. Compute ESDv2 for New Development

New Development =	1,393,491	s.f. =	31.99	ac.

Determine ESD Implementation Goals

1.1 Determine Pre-Developed Conditions

Soil Conditions

HSG	RCN	Area (s.f.)	Area (ac.)	Percent
A	38	0	0.00	0.00%
B	55	1,393,491	31.99	100.00%
C	70	0	0.00	0.00%
D	77	0	0.00	0.00%
Total		1,393,491	31.99	

Assume 100% A soils

Determine composite RCN for "woods in good condition"

$$RCN = \frac{(38)(0) + (55)(31.99) + (70)(0) + (77)(0)}{31.99} = 55$$ <-- Target RCN

1.2 Determine Target Pe using Table 5.3

Determined Proposed Imperviousness (%I)

Total Impervious =	1,393,491	s.f =	31.99	ac.
Impervious in A soils =	0	=	0.00%	of total impervious in A soils
Impervious in B soils =	1,393,491	=	100.00%	of total impervious in B soils
Impervious in C soils =	0	=	0.00%	of total impervious in C soils
Impervious in D soils =	0	=	0.00%	of total impervious in D soils
			100%	
Total LOD =	1,393,491	s.f. =	31.99	ac.

%I = 100.00%

Determine Pe from Table 5.3

Using %I = 0% and A soils, target Pe =	0	inches
Using %I =100% and B soils, target Pe =	2.6	inches
Using %I = 0% and C soils, target Pe =	0	inches
Using %I = 0% and D soils, target Pe =	0	inches

$$Pe = \frac{(0)(0) + (2.6)(31.99) + (0)(0) + (0)(0)}{31.99}$$

Target Pe = 2.60 inches

1.3 Compute ESDv2

Qe2 = Pe x Rv
Rv = 0.05 + .009 x %I
Rv = 0.05 + .009 x 100.00%
Rv = 0.95000
Qe2 = 2.6 x 0.95
Qe2 = 2.47

$$\textbf{ESDv2} = \frac{(Pe)(Rv)(A)}{12} = \frac{(2.6)(0.95)(1393491.188)}{12}$$

ESDv2 = 286,827 c.f.
ESDv2 = 6.58 ac-ft

C. Compute ESDv Total

ESDv Total = ESDv1 + ESDv2
ESDV Total = 0 c.f. + 286826.9 c.f. = **286,827 c.f.**
ESDV Total = **6.58 ac-ft**

BWI

ESD Computations for Midfield Cargo Ramp Expansion - Signal Branch

Table 5.3 Rainfall Targets/Runoff Curve Number Reductions used for ESD

Hydrologic Soil Group A										
%I	RCN*	P_E = 1"	1.2"	1.4"	1.6"	1.8"	2.0"	2.2"	2.4"	2.6"
0%	40									
5%	43									
10%	46									
15%	48	38								
20%	51	40	38	38						
25%	54	41	40	39						
30%	57	42	41	39	38					
35%	60	44	42	40	39					
40%	61	44	42	40	39					
45%	66	48	46	41	40					
50%	69	51	48	42	41	38				
55%	72	54	50	42	41	39				
60%	74	57	52	44	42	40	38			
65%	77	61	55	47	44	42	40			
70%	80	66	61	55	50	45	40			
75%	84	71	67	62	56	48	40	38		
80%	86	73	70	65	60	52	44	40		
85%	89	77	74	70	65	58	49	42	38	
90%	92	81	78	74	70	65	58	48	42	38
95%	95	85	82	78	75	70	65	57	50	39
100%	98	89	86	83	80	76	72	66	59	40

Hydrologic Soil Group B										
%I	RCN*	P_E = 1"	1.2"	1.4"	1.6"	1.8"	2.0"	2.2"	2.4"	2.6"
0%	61									
5%	63									
10%	65									
15%	67	55								
20%	68	60	55	55						
25%	70	64	61	58						
30%	72	65	62	59	55					
35%	74	66	63	60	56					
40%	75	66	63	60	56					
45%	78	68	66	62	58					
50%	80	70	67	64	60					
55%	81	71	68	65	61	55				
60%	83	73	70	67	63	58				
65%	85	75	72	69	65	60	55			
70%	87	77	74	71	67	62	57			
75%	89	79	76	73	69	65	59			
80%	91	81	78	75	71	66	61			
85%	92	82	79	76	72	67	62	55		
90%	94	84	81	78	74	70	65	59	55	
95%	96	87	84	81	77	73	69	63	57	
100%	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	55

Cp_v Addressed (RCN = Woods in Good Condition)

RCN Applied to Cp_v Calculations

Table 5.3 Runoff Curve Number Reductions used for Environmental Site Design (continued)

Hydrologic Soil Group C										
%I	RCN*	P_E = 1"	1.2"	1.4"	1.6"	1.8"	2.0"	2.2"	2.4"	2.6"
0%	74									
5%	75									
10%	76									
15%	78									
20%	79	70								
25%	80	72	70	70						
30%	81	73	72	71						
35%	82	74	73	72	70					
40%	84	77	75	73	71					
45%	85	78	76	74	71					
50%	86	78	76	74	71					
55%	86	78	76	74	71	70				
60%	88	80	78	76	73	71				
65%	90	82	80	77	75	72				
70%	91	82	80	78	75	72				
75%	92	83	81	79	75	72				
80%	93	84	82	79	76	72				
85%	94	85	82	79	76	72				
90%	95	86	83	80	77	73	70			
95%	97	88	85	82	79	75	71			
100%	98	89	86	83	80	76	72	70		

Hydrologic Soil Group D										
%I	RCN*	P_E = 1"	1.2"	1.4"	1.6"	1.8"	2.0"	2.2"	2.4"	2.6"
0%	80									
5%	81									
10%	82									
15%	83									
20%	84	77								
25%	85	78								
30%	85	78	77	77						
35%	86	79	78	78						
40%	87	82	81	79	77					
45%	88	82	81	79	78					
50%	89	83	82	80	78					
55%	90	84	82	80	78					
60%	91	85	83	81	78					
65%	92	85	83	81	78					
70%	93	86	84	81	78					
75%	94	86	84	81	78					
80%	94	86	84	82	79					
85%	95	86	84	82	79					
90%	96	87	84	82	79	77				
95%	97	88	85	82	80	78				
100%	98	89	86	83	80	78	77			

Cp_v Addressed (RCN = Woods in Good Condition)

RCN Applied to Cp_v Calculations

BWI
ESD Computations for **Midfield Cargo Ramp Expansion - Kitten Branch**

Total LOD =	143,748	s.f. =	3.30	ac.	
Existing impervious area in LOD=		0	s.f.	0.00	ac.
%Existing impervious area in LOD=		0%	**USE NEW DEVELOPMENT SINCE <40%**		
Pavement Removal =		0	s.f =	0.00	ac.
New Pavement =		143,748	s.f =	3.30	ac.
Net (ESD Required)=		143,748	s.f =	3.30	ac.
Redevelopment Area Requiring ESD = (50% of existing impervious area in LOD)		0	s.f =	**0.00**	**ac.**
New Development for ESD = (Net increase/decrease in impervious area)		143,748	s.f =	3.30	ac.
		IART	=	3.30	ac.

B. Compute ESDv2 for New Development

New Development = 143,748 s.f. = 3.30 ac.

Determine ESD Implementation Goals

1.1 Determine Pre-Developed Conditions

Soil Conditions

HSG	RCN	Area (s.f.)	Area (ac.)	Percent
A	38	4,356	0.10	3.03%
B	55	139,392	3.20	96.97%
C	70	0	0.00	0.00%
D	77	0	0.00	0.00%
Total		143,748	3.30	

Determine composite RCN for "woods in good condition"

$$RCN = \frac{(38)(0.1) + (55)(3.2) + (70)(0) + (77)(0)}{3.30} = 54$$ <-- Target RCN

1.2 Determine Target Pe using Table 5.3

Determined Proposed Imperviousness (%I)

Total Impervious =	143,748	s.f =	3.30	ac.
Impervious in A soils =	4,356	=	3.03%	of total impervious in A soils
Impervious in B soils =	139,392	=	96.97%	of total impervious in B soils
Impervious in C soils =	0	=	0.00%	of total impervious in C soils
Impervious in D soils =	0	=	0.00%	of total impervious in D soils
			100%	

Total LOD =	143,748	s.f. =	3.30	ac.
%I =			100.00%	

Determine Pe from Table 5.3

Using %I = 100% and A soils, target Pe =	2.6	inches
Using %I =100% and B soils, target Pe =	2.6	inches
Using %I = 0% and C soils, target Pe =	0	inches
Using %I = 0% and D soils, target Pe =	0	inches

$$Pe = \frac{(2.6)(0.1) + (2.6)(3.2) + (0)(0) + (0)(0)}{3.30}$$

Target Pe = 2.60 inches

1.3 Compute ESDv2

Qe2 = Pe x Rv
Rv = 0.05 + .009 x %I
Rv = 0.05 + .009 x 100.00%
Rv = 0.95000
Qe2 = 2.6 x 0.95
Qe2 = 2.47

$$\textbf{ESDv2} = \frac{(Pe)(Rv)(A)}{12} = \frac{(2.6)(0.95)(143748)}{12}$$

ESDv2	=	29,588	c.f.
ESDv2	**=**	**0.68**	**ac-ft**

C. Compute ESDv Total

ESDv Total = ESDv1 + ESDv2

ESDV Total =	0 c.f. + 29588.1 c.f. =	**29,588**	**c.f.**
ESDV Total =		**0.68**	**ac-ft**

BWI

ESD Computations for Midfield Cargo Ramp Expansion - Kitten Branch

Table 5.3 Rainfall Targets/Runoff Curve Number Reductions used for ESD

Hydrologic Soil Group A										
%I	RCN*	P_E = 1"	1.2"	1.4"	1.6"	1.8"	2.0"	2.2"	2.4"	2.6"
0%	40									
5%	43									
10%	46									
15%	48	38								
20%	51	40	38	38						
25%	54	41	40	39						
30%	57	42	41	39	38					
35%	60	44	42	40	39					
40%	61	44	42	40	39					
45%	66	48	46	41	40					
50%	69	51	48	42	41	38				
55%	72	54	50	42	41	39				
60%	74	57	52	44	42	40	38			
65%	77	61	55	47	44	42	40			
70%	80	66	61	55	50	45	40			
75%	84	71	67	62	56	48	40	38		
80%	86	73	70	65	60	52	44	40		
85%	89	77	74	70	65	58	49	42	38	
90%	92	81	78	74	70	65	58	48	42	38
95%	95	85	82	78	75	70	65	57	50	39
100%	98	89	86	83	80	76	72	66	58	40

Hydrologic Soil Group B										
%I	RCN*	P_E = 1"	1.2"	1.4"	1.6"	1.8"	2.0"	2.2"	2.4"	2.6"
0%	61									
5%	63									
10%	65									
15%	67	55								
20%	68	60	55	55						
25%	70	64	61	58						
30%	72	65	62	59	55					
35%	74	66	63	60	56					
40%	75	66	63	60	56					
45%	78	68	66	62	58					
50%	80	70	67	64	60					
55%	81	71	68	65	61	55				
60%	83	73	70	67	63	58				
65%	85	75	72	69	65	60	55			
70%	87	77	74	71	67	62	57			
75%	89	79	76	73	69	65	59			
80%	91	81	78	75	71	66	61			
85%	92	82	79	76	72	67	62	55		
90%	94	84	81	78	74	70	65	59	55	
95%	96	87	84	81	77	73	69	63	57	
100%	98	89	86	83	80	76	72	66	59	55

Cp_v Addressed (RCN = Woods in Good Condition)

RCN Applied to Cp_v Calculations

Table 5.3 Runoff Curve Number Reductions used for Environmental Site Design (continued)

Hydrologic Soil Group C										
%I	RCN*	P_E = 1"	1.2"	1.4"	1.6"	1.8"	2.0"	2.2"	2.4"	2.6"
0%	74									
5%	75									
10%	76									
15%	78									
20%	79	70								
25%	80	72	70	70						
30%	81	73	72	71						
35%	82	74	73	72	70					
40%	84	77	75	73	71					
45%	85	78	76	74	71					
50%	86	78	76	74	71					
55%	86	78	76	74	71	70				
60%	88	80	78	76	73	71				
65%	90	82	80	77	75	72				
70%	91	82	80	78	75	72				
75%	92	83	81	79	75	72				
80%	93	84	82	79	76	72				
85%	94	85	82	79	76	72				
90%	95	86	83	80	77	73	70			
95%	97	88	85	82	79	75	71			
100%	98	89	86	83	80	76	72	70		

Hydrologic Soil Group D										
%I	RCN*	P_E = 1"	1.2"	1.4"	1.6"	1.8"	2.0"	2.2"	2.4"	2.6"
0%	80									
5%	81									
10%	82									
15%	83									
20%	84	77								
25%	85	78								
30%	85	78	77	77						
35%	86	79	78	78						
40%	87	82	81	79	77					
45%	88	82	81	79	78					
50%	89	83	82	80	78					
55%	90	84	82	80	78					
60%	91	85	83	81	78					
65%	92	85	83	81	78					
70%	93	86	84	81	78					
75%	94	86	84	81	78					
80%	94	86	84	82	79					
85%	95	86	84	82	79					
90%	96	87	84	82	79	77				
95%	97	88	85	82	80	78				
100%	98	89	86	83	80	78	77			

Cp_v Addressed (RCN = Woods in Good Condition)

RCN Applied to Cp_v Calculations

Attachment 7:

MAA Regional Aircraft Rescue and Firefighting (ARFF) Training Facility

Program Definition Document

MAA-AE-14-002

August 2018

BALTIMORE/WASHINGTON INTERNATIONAL Thurgood Marshall AIRPORT

MAA Regional Aircraft Rescue and Firefighting (ARFF) Training Facility

Program Definition Document

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND AVIATION ADMINISTRATION

MAA-AE-14-002
Task 5731

August 2018

MAA Regional Aircraft Rescue and Firefighting (ARFF) Training Facility

Program Definition Document

MAA-AE-14-002 / Task 5731

August 2018

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND AVIATION ADMINISTRATION

TC TABLE OF CONTENTS

1.0 INTRODUCTION 1-1
1.1 Background 1-1
1.2 Expanded Program and Functions 1-1
1.2.1 Regional ARFF Training 1-2
1.2.2 Realistic Firefighter Training 1-2
1.2.3 Employee Training Spaces 1-3
1.2.4 Emergency Operations Center (EOC) 1-4
1.3 Program Description 1-4
1.4 Project Location 1-5
1.5 Project Approach 1-5
2.0 PRE-DESIGN CONSIDERATIONS 2-1
2.1 Site Conditions 2-1
2.1.1 Land Use and Cover Types 2-1
2.1.2 Topography, Soil Types and Permeability 2-1
2.1.3 Drainage 2-1
2.2 FAA Requirements on Location 2-2
2.2.1 FAA Siting Criteria 2-2
2.2.2 Security Information Display Area (SIDA) 2-2
2.3 Environmental Factors 2-3
2.3.1 Air Quality 2-3
2.3.2 Forested Areas and Habitat 2-3
2.3.3 Hazardous Materials and Wastes 2-4
2.3.4 Historic Sites 2-4
2.3.5 Groundwater 2-4
2.4 Utilities and Infrastructure 2-6
2.4.1 Electricity 2-6
2.4.2 Water 2-6
2.4.3 Sewer 2-6
2.4.4 Natural Gas 2-6
2.4.5 Telecommunications 2-6
2.4.6 FAA Connectivity 2-6
3.0 SITE LAYOUT 3-1
3.1 Fire Training Area 3-1
3.1.1 Burn Area Structure 3-1
3.1.2 Vehicle Maneuvering Area 3-3
3.1.3 Aircraft Mock Up 3-4
3.1.4 Control Tower 3-4
3.1.5 Fuel Supply and Storage 3-5
3.1.6 Wastewater Treatment 3-5
3.1.7 Burn Building 3-6
3.1.8 Aircraft Rescue Trainer 3-7
3.1.9 Flashover Simulator 3-7
3.1.10 Confined Space Rescue Trainer 3-8
3.1.11 Vehicle Disassembly 3-8
3.1.12 Fire Extinguisher Training 3-9
3.2 Classroom Training Building 3-9
3.3 Vehicular Access 3-9
3.3.1 Landside Roadways 3-9
3.3.2 Airside Access and Gates 3-11
3.4 Grading, Drainage and Stormwater Management 3-11
3.5 Utilities 3-13
3.5.1 Electricity 3-15
3.5.2 Domestic Water 3-15
3.5.3 Fire Protection 3-15
3.5.4 Sanitary 3-15
3.5.5 Natural Gas 3-16
3.5.6 Communications/Connectivity 3-16
4.0 BUILDING PLAN 4-1
4.1 Orientation 4-1
4.2 Configuration and Layout 4-1
4.3 ARFF Training 4-3
4.4 FAR Part 139 Training 4-5
4.4.1 Driver Simulation 4-5
4.4.2 Workshop (Airfield Electrical) 4-5

4.5 Emergency Operations Center (EOC) 4-5
4.6 MAA Employee Training 4-7
4.7 Building Support 4-7
4.8 Design Narrative 4-8
4.8.1 Exterior 4-8
4.8.2 Interior 4-8
4.8.3 Building Systems and Utilities.....4-8
4.8.4 Codes and Standards.....4-9
5.0 IMPLEMENTATION.....5-1
5.1 Cost Estimate 5-1
5.1.1 Methodology 5-1
5.1.2 Inclusions, Exclusions and Assumptions 5-1
5.2 Schedule 5-3
5.3 Federal Funding Eligibility.....5-4
5.4 Considerations for Preliminary Design.....5-4

LIST OF FIGURES

Figure 1: Project Location 1-5
Figure 2: Proximity to Water Supply Wells (Glen Burnie Public Water System) 2-5
Figure 3: Proximity to Water Supply Wells (AAC Department of Public Works) 2-5
Figure 4: Site Layout Plan 3-2
Figure 5: Burn Structure Area 3-3
Figure 6: Vehicle Maneuvering Area 3-3
Figure 7: Simulated Aircraft Fire Trainer 3-4
Figure 8: Burn Pit Control Tower 3-4
Figure 9: Fireguard™ Above Ground Tanks 3-5
Figure 10: Industrial Wastewater Treatment/ASH Technology 3-6
Figure 11: Realistic Interior Fire Building 3-6
Figure 12: Boeing 727 Mock Medical Response Exercise 3-7
Figure 13: Flashover Simulator 3-7
Figure 14: Confined Space Rescue Training Package 3-8
Figure 15: Vehicle Extrication 3-8
Figure 16: Fire Extinguisher Training 3-9
Figure 17: Road Closure Fence Gate 3-9
Figure 18: Aviation Boulevard Intersection Improvements 3-10
Figure 19: Preliminary Grading & Drainage Plan 3-12
Figure 20: Proposed Utilities 3-14
Figure 21: Building Layout Plan 4-2
Figure 22: Classroom Training 4-3
Figure 23: Emergency Medical Technician Training 4-3
Figure 24: Fire-Rescue Triage Training 4-4
Figure 25: Rope/Rescue Training 4-4
Figure 26: Airport Driving Simulator 4-5
Figure 27: Airfield Lighting Maintenance/Training Room 4-5
Figure 28: EOC/Large Training Room 4-6
Figure 29: Project Schedule 5-3

LIST OF TABLES

Table 1: ROM Cost Estimates 5-2
Table 2: Federal Funding Eligibility 5-5
Table 3: AIP Eligible Costs 5-5

Appendix A: MAA Training Facility Survey Process
Appendix B: Spatial Program
Appendix C: Program Cost Estimates
Appendix D: Plan Set (Bound Separately)

ES EXECUTIVE SUMMARY

This Program Definition Document (PDD) envisions the Maryland Aviation Administration's (MAA) plan to develop a Regional Airport Rescue & Firefighting (ARFF) Training Facility at Baltimore/ Washington Thurgood Marshall International Airport (BWI Marshall). The Program includes:

- **Live-fire training area** where ARFF service personnel from BWI Marshall and other airport fire departments will be able to conduct realistic training in the use of firefighting apparatus and the application of extinguishing agents.
- **Training building** with multiple classrooms, offices, locker rooms, a break room, vehicle storage bays, and a control tower overlooking the fire training area.

The purpose of the program is to provide classroom and live-fire instruction to develop and maintain the skills necessary to perform ARFF duties in accordance with FAR Part 139 requirements for airport certification and ARFF training. In addition, and in conjunction with the training purpose of the program, the building also provides space for the airport's Emergency Operations Center (EOC), simulators and a workshop for airport operations and maintenance personnel, and classrooms to support other MAA employee development programs.

The project site consists of 27 acres of open space on the east side of the airport. The land is undeveloped, topographically high and mostly covered with trees and shrubs. An entrance road will be provided that connects to the intersection of Aviation Boulevard and Cromwell Park Drive.

The live-fire training area includes a jet fuel spill burn pit with an aircraft mock-up/simulator. The burn pit will be equipped with a dual fuel system having the option of two fuel sources—either jet fuel or propane. The aircraft mock-up, or Specialized Aircraft Fire Trainer (SAFT), uses propane and a sophisticated fuel delivery system to recreate different emergency scenarios including interior and exterior incident fires. Both fuel systems are managed from a control tower located in the southwest corner of the ARFF training building.

The training building will be a single story structure (except for the control tower) with a footprint of ±26,000 square feet. The building size and configuration is based on the program space required to support each functional area, using a design layout that provides efficient ingress/egress through secure and non-secure areas. More than half the building space will be allocated for ARFF training and emergency/response preparedness. Other elements of the project include utility connections, airside vehicle service roads, security gates and fencing, and stormwater management facilities.

The total capital program cost is $72 million ($2018), of which up to 77 percent could be eligible for federal funding. If approved and implemented, the design/construction process is expected to take approximately 24 months to complete.

1 INTRODUCTION

1.1 Background

The Maryland Aviation Administration (MAA) operates an Airport Rescue and Firefighting (ARFF) training facility to provide a safe training environment for airport firefighters from BWI Marshall Airport and from other airports in the region. The facility is also frequently used as a mutual aid resource for training first responders from Baltimore City and surrounding counties. In addition, instructors from the Maryland Fire Rescue Institute (MFRI) of the University of Maryland utilize this facility for ARFF classes with live-fire training for in-state and many out-of-state personnel.

The live-fire training area is a four-acre site located in the southwest area of the airport along Mathison Way between Aviation Boulevard and the ARFF station. The existing facility provides a jet fuel burn pit, fuselage trainer, confined space trainer, flashover simulator, and support facilities including fuel storage tanks, wastewater storage tanks, a storage building, and a double-wide trailer for classroom training, safety talks, briefings before and after live-fire exercises, and for MFRI course testing.

Built in 1986, the training facility requires numerous improvements to meet current FAA design standards and to comply with FAA requirements for firefighter training. The various deficiencies are outlined in a report prepared in 2005.[1] However, since that report, it is no longer recommended to improve the existing facility because this location conflicts with future development plans for the area. Therefore, the MAA is proposing to construct a new ARFF training facility elsewhere on the airport.

A site selection study and relocation analysis was prepared in 2013.[2] The study identifies a preferred location, type of facility, and provides a rough order of magnitude (ROM) cost estimate based on a propane fuel system. The initial project plan included all the basic components required for an FAA-approved live-fire training facility, including a burn pit with an aircraft mock-up and a vehicle maneuvering area, plus a support building for classrooms and storage space for ARFF training vehicles and equipment.

1.2 Expanded Program and Functions

In 2017, the MAA's vision for the project was expanded to include a multi-purpose facility with more realistic fire training resources and capabilities, additional classrooms to accommodate a wider array of airport first responder and employee training needs, and to serve as the command center and control facility for managing and coordinating events in the aftermath of an airport emergency or disaster.

Specifically, for the live-fire training facility components:

- The new facility is proposed as a "regional" ARFF training facility to reflect its current and future role

[1] Fire Training Facility Improvements, Baltimore/Washington International Airport, prepared by Michael Baker, Jr., Inc. (Draft, January 17, 2005).

[2] Airport Rescue and Fire Fighting (ARFF) Training Facility Relocation Analysis, prepared by AECOM and ADCI (October 2013).

- The burn pit will have dual fuel capability—propane with water as extinguishing agent, or jet fuel with aqueous film forming foam (AFFF) as the extinguishing agent

Beyond the live-fire training facility components identified in the 2013 site selection study, this program is recommended to support the following additional facilities:

- Classrooms and training spaces required for FAR Part 139 airport employee certification
- The MAA's Office of Organizational Development will be relocated here
- The BWI Marshall Emergency Operations Center (EOC) will be relocated to this facility

1.2.1 Regional ARFF Training

The existing facility is used to train firefighters from BWI Marshall and other airports as well. In 2017, BWI Marshall fire/rescue personnel provided ARFF training to firefighters from the following airports:

- Hagerstown Regional Airport (HGR)
- Altoona-Blair County Airport (AOO)
- Ronald Reagan Washington National Airport (DCA)
- Dulles International Airport (IAD)
- Harrisburg International Airport (MDT)

In addition, the following fire departments have expressed interest in conducting ARFF training at BWI Marshall Airport:

- Easton Volunteer Fire Company/Easton Airport (ESN)
- Salisbury Fire Department/Salisbury Airport (SBY)
- Philadelphia International Airport (PHL)
- MDANG 175th Wing/Martin State Airport (MTN)
- Dover Air Force Base

Also, in partnership with the Maryland Fire Rescue Institute (MFRI) of the University of Maryland, ARFF classes with live-fire training for in-state and many out-of-state personnel are provided.

Furthermore, FAR Part 139 establishes certification and recertification requirements for commercial service airports, and these requirements include drills and exercises at least once a year. Part 139 requires that the airport have an approved emergency plan that identifies all mutual aid agreements and partners which include the following organizations:

- Anne Arundel County
- Baltimore County
- Howard County
- Baltimore City
- Galena Volunteer Fire Company
- Fairfax County

Based on this information, BWI Marshall Airport's ARFF training activities appear to meet the qualifications to be designated and funded as a "regional" training facility.

1.2.2 Realistic Firefighter Training

The existing ARFF training facility is unique for its design and capability to burn jet fuel and the opportunity to extinguish actual

jet fuel fires using AFFF.[3] Other ARFF training facilities in the region, including Pittsburgh International Airport (PIT), Philadelphia International Airport (PHL) and John F. Kennedy International Airport (JFK) do not provide this option.[4] Instead, they rely on propane burners to simulate a jet fuel spill fire and they use water to spray sensors that gradually reduce and eventually shut-off the flames. Although using propane offers both operational and environmental advantages, training with jet fuel gives firefighters hands-on experience with real-time flame spread, flame reaction, and the intense heat associated with an actual jet fuel spill fire.

BWI Marshall Airport fire/rescue personnel also use AFFF concentrates to demonstrate and teach firefighters the strategies and tactics for combatting a jet fuel spill fire—applications that cannot be accurately recreated using water as the extinguishing agent. Although training foams are available as a substitute, those concentrates have different chemical compositions and cannot be used with the ARFF vehicle apparatus without recalibrating the foam proportioning systems to achieve the correct concentrations for the different types of foams.

The proposed live-fire training area will be equipped for "dual-fuel" fire simulations that burn either jet fuel for maximum realism or propane to reduce environmental effects such as air and water pollution. As a regional ARFF training facility with a jet fuel burn pit, other airport fire/rescue personnel and local fire departments will be able to continue to rely on BWI Marshall Airport for this highly specialized type of training that is not available elsewhere in the region.

1.2.3 Employee Training Spaces

Many airport job classifications require training, testing, and in some cases, certification/re-certification. A survey was conducted to identify the training needs of the MAA. The survey was distributed to all offices within the various divisions of the MAA.[5] The findings indicate that MAA employee training is decentralized and that much of the training is occurring using any available space such as meeting rooms, conferences rooms, empty offices, etc. (see **Appendix A**). Operationally this is challenging, as these spaces may not be set up appropriately for a classroom or learning environment.

The MAA Office of Organizational Development is responsible for MAA-wide training programs. In keeping with the training purpose of the building, the MAA decided that the Office of Organizational Development should be relocated there. The survey results were used to determine space requirements for employee training including training classrooms, a computer training room, and

[3] There are no other ARFF training facilities equipped with jet fuel burn pits in the FAA's Eastern Region (DE, MD, NJ, NY, PA, VA, WV, DC). The nearest comparable facility is at Boston Logan International Airport (BOS) more than 400 miles away.

[4] The burn pit at Dulles International Airport is rarely used because of environmental concerns and age. Consequently, both Metropolitan Washington Airport Authority (MWAA) airports (DCA/IAD) have been using BWI Marshall for live-fire training.

[5] The survey was also offered to other potential stakeholders (e.g., airlines, TSA, vendors/suppliers, etc.). Initial feedback indicated their training needs were adequately met and that they would not be likely to utilize the proposed training building.

training space that requires special equipment such as airport driving simulators. The training facility will provide flexible and technology-advanced learning environments that area safe, healthy, comfortable, aesthetically-pleasing, and accessible.

1.2.4 Emergency Operations Center (EOC)

The EOC is a centralized facility on the airport that is staffed and equipped to support the incident commander and first responders at the scene of an aircraft accident or airport incident. The EOC is the primary command and control facility from which these activities are managed and resources are deployed.

The EOC allows ARFF personnel, police, security, air traffic control, dispatch, Transportation Security Administration, emergency medical services, local safety authorities, public safety and other airport operations to train together, ensuring complete continuity across all agencies and striving for the best possible outcome.

The EOC is also used for incident command training and support space for various personnel to prepare for an airport emergency and to practice implementing the Airport Emergency Plan in accordance with FAR Part 139 requirements.

The existing EOC is located in the lower level of Concourse C in the terminal building and is not easily accessible to off-airport personnel. Given the routine training requirements associated with the Airport Emergency Plan, the EOC facility will be relocated to the proposed ARFF training facility.

1.3 Program Description

Based on the aforementioned needs, the MAA is proposing to construct a Regional ARFF training facility that consists of a live-fire training area and a related classroom training building with storage bays for fire/rescue vehicles and associated equipment. The building will also be used to relocate and consolidate airport emergency preparedness and departmental training functions.

The main elements of the program are:

- **ARFF Live-Fire Training Area –** a fixed facility with a specialized fuel-spill burn pit, an aircraft mock-up, simulators, and props used for airport fire/rescue and emergency response training
- **ARFF Classroom Training –** an adjacent building with multi-functional spaces designed to meet the educational and practical needs of the ARFF training program
- **Emergency Operations Center (EOC)–** the EOC is a designated area for airport operations personnel to develop, coordinate, exercise, and implement the airport's emergency plans
- **Part 139 Training –** classroom space, simulators, a workshop, and related space used for airport operations and field maintenance training and certification requirements
- **Employee Training –** office space for the MAA's Office of Organizational Development and training space that is flexible, technologically-advanced, and able to meet the specific space and equipment needs of the training program and curriculum.

1.4 Project Location

The project site will be located on existing airport property in the southeast quadrant of the airport near the intersection of Aviation Boulevard (SR 162) and Dorsey Road (SR 176), immediately south of the Taxiway "V" turnaround for Runway 28 (see **Figure 1**).

Landside access to the ARFF training facility will be a new east-west entrance road connected to the intersection of Aviation Boulevard and Cromwell Park Drive. Airside access will be provided by an airport vehicle service road (VSR) to the north and another to the west.

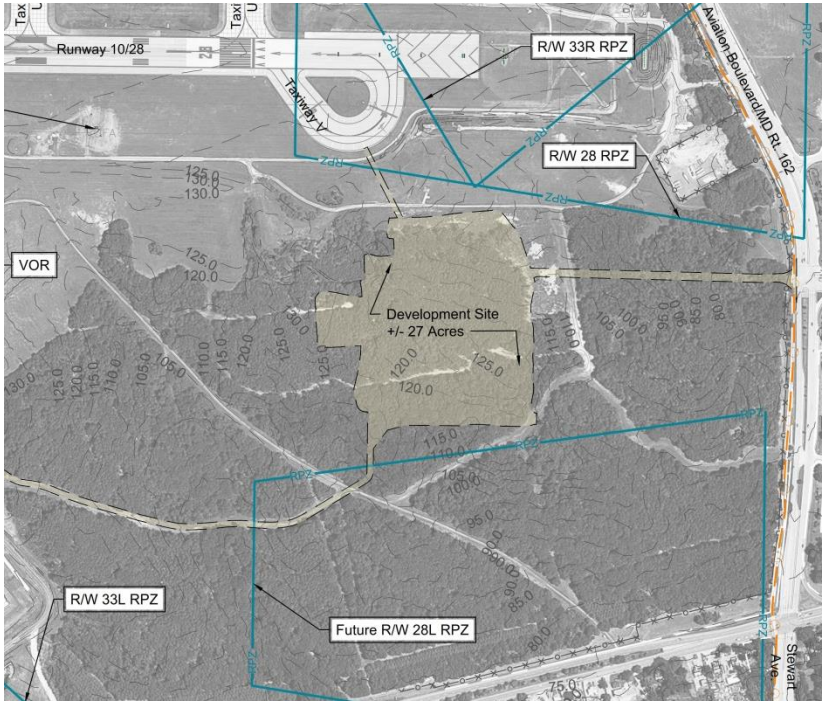


Figure 1: Project Location

1.5 Project Approach

This PDD is a statement of the scope, objectives, and participants in the project and is intended to provide a shared understanding of the project. The report is organized around the completion of the following tasks, which comprise the sections of the document:

- Section 1: Introduction – provides background information and define the elements of the project
- Section 2: Pre-Design Considerations – identifies planning parameters for the building and the site
- Section 3: Site Layout Plan – presents a conceptual plan to illustrate all the elements of the project
- Section 4: Building Layout – presents a conceptual plan to accommodate the building space program
- Section 5: Implementation – provides a conceptual cost estimate and a development schedule

2 PRE-DESIGN CONSIDERATIONS

This section describes the existing site conditions, identifies potential issues and constraints, and discusses planning parameters related to developing the ARFF training facility.

2.1 Site Conditions

2.1.1 Land Use and Cover Types

The project site is vacant land consisting of grassland, wooded areas, and unpaved roads. Historical aerial photography and topographic mapping indicate the presence of an orchard (c. 1950) that was mostly overgrown after 30 years (c. 1980) and that it has remained a mostly wooded area since then.

2.1.2 Topography, Soil Types and Permeability

Site elevations vary ±31 feet across the project site ranging from approximately 98 feet to 129 feet above mean sea level (MSL) with the highest elevation occurring near the west side of the site and the lowest elevation occurring near the northeast corner of the site.

The predominant soil type is *Galestown* loamy sand (0 to 5 percent slopes) described as somewhat excessively drained, with very low runoff, no frequency of flooding, and no hydric soil characteristics (USDA National Resources Conservation Service, Web Soil Survey)[6].

BWI Marshall is located in Anne Arundel County, and the County is located within the Coastal Plain Aquifer system. Coastal Plain groundwater characteristics include unconsolidated sediments, confined aquifers, and usually high well yields. According to the Maryland Geological Survey, two confining units separate three major aquifers beneath the project site[7] , which helps to lessen the downward migration of inadvertent spills or releases.

2.1.3 Drainage

There are no bodies of water or man-made drainage features within the project site. Irving Branch flows west to east along a swale located between the project site and the Taxiway "V" turnaround near the approach to Runway 28. The need for an airfield access road requires crossing Irving Branch, which requires approval from the Maryland Department of the Environment (MDE) and the U.S. Army Corps of Engineers.

[6] https://websoilsurvey.sc.egov.usda.gov/app/WebSoilSurvey.aspx

[7] Groundwater in Anne Arundel County, Maryland Geological Survey (March 2012)

2.2 FAA Requirements on Location

The project location complies with FAA guidance pertaining to requirements for siting ARFF training facilities (see FAA AC 150/5220-17B). The guidelines outlined by the FAA require that all new facilities are planned, designed and constructed to meet the following criteria:

- **Location outside all restricted areas noted in AC 150/5300-13, Airport Design.** The project site has been evaluated for compliance with the current Airport Layout Plan (ALP) and current master plan. There are no apparent conflicts with airfield clearance standard dimensions, navigable airspace, or interference with terminal approach procedures.

- **Location where smoke and the associated thermal plume will not hinder aircraft operations or air traffic control (ATC) tower's surveillance of the movement area.** Prevailing winds are from the west-northwest, which means the project site is downwind from the airfield and the ATC tower. Safety protocols require that live-fire training exercises are conducted only if/when weather conditions are acceptable, and the burn activities are always coordinated with ATC tower personnel.

- **Location where the aircraft mock-up (e.g., tail height) and support components (e.g., buildings) will not interfere with navigational aids.** The project site is located ±2,000 feet southeast of the VOR and the area in between the project site and the VOR is buffered by dense trees.

- **Location greater than 1,000 feet (300 meters) from residential areas and 300 feet (90m) from airport buildings and public vehicle parking lots.** There are no residential areas, airport structures or parking lots located in the vicinity of the project site. The final location of the proposed training building and associated parking lot should be reviewed for compliance with this requirement.

The preferred location for the ARFF facility as shown on the current approved ALP has been evaluated and determined to comply with FAA siting requirements including *FAR Part 77, Objects Affecting Navigable Airspace*. During preliminary engineering, an *FAA Form 7460, Notice of Proposed Construction or Alternation*, should be submitted again to the FAA for review and approval.

In addition, the ARFF training facility will be designed to achieve and maintain positive control between the secure and non-secure areas including measures to perform the access control functions required under CFR 49 Part 1542, Airport Security. BWI Marshall uses a sophisticated physical access control system (PACS) to limit employee access throughout the airport and to keep unauthorized personnel and the public out of areas they do not belong. Access controls are typically locks on gates and doors that require a magnetic card issued to persons authorized to enter.

2.3 Environmental Factors

The project site consists primarily of topographically high land covered mostly with trees and shrubs. No surface water or coastal resources are present and there are no mapped floodplains or wetlands within the limits of disturbance. Vegetated open space affected by the project may include soil types listed as important to agriculture, but the airport is within a designated Urbanized Area and for that reason no or low impacts to farmland are anticipated. No existing hazardous materials or waste sites are identified in the vicinity of the project.

The ARFF training facility was evaluated in a Preliminary Final Environmental Assessment (EA) for ALP approval of planned airport improvements anticipated over the next five years.[8] No significant impacts are identified and an FAA environmental determination is expected in 2018. It is noted, however, that the project definition has changed since the scope of the Preliminary Final EA was prepared in 2016. For example, the building is larger to include additional functions, the limit of disturbance is expanded to accommodate the preliminary grading and drainage plan, and a jet fuel burn pit has been added.

It is not practical to revise the Preliminary Final EA with new project information at this time. If this project is programmed for implementation, the project-related impacts addressed in the FAA's environmental decision will have to be re-evaluated based on the expanded scope of the project. Topics of particular interest include, but may not be limited to, the following:

2.3.1 Air Quality

Air emissions from BWI Marshall Airport are regulated under the current Title V Air Permit, which is administered by the EPA and is valid through January 31, 2019. The operating permit ensures that air quality control requirements are in place and met. The existing live-fire training facility is permitted as a significant emissions source. Similarly, the proposed facility will also be considered significant. Therefore, agency consultation and air permitting requirements should be considered early in the design process.

2.3.2 Forested Areas and Habitat

No critical habitat supporting either federally-listed threatened or endangered species would be affected by the project. However, the forest stands in the affected area are designated as potential forest interior dwelling species (FIDS) habitat by the Maryland Department of Natural Resources (MDNR). The project site is ±27 acres; of which, ±21 acres are forested and will need to be cleared to accommodate the project. It should be noted that, according to the Preliminary Final EA, a large number of the trees in this area are already scheduled to be cleared for Tree Obstruction Removal projects unrelated to the ARFF training facility. Consultation with the MDNR will be necessary.

[8] Preliminary Final Environmental Assessment and Section 4(f) Evaluation, Proposed Improvements 2016-2020 at Baltimore/Washington International Thurgood Marshall Airport (February, 2018).

2.3.3 Hazardous Materials and Waste

ARFF training activities involve the use, handling, and storage of regulated hazardous materials and the treatment and disposal of wastes. Hazardous materials include jet fuel and propane for burning and emulsifying/foaming agents for fire suppression. Fire training wastewater contains high concentrations of residual/unburned fuel, carbon particles/soot, and firefighting chemicals including those used in AFFF.[9] Consequently, wastewater from the burn pit is not permitted to be discharged directly into municipal sanitary or storm sewer systems.

To mitigate potential environmental risks, the fuel supply will be stored in aboveground storage tanks (ASTs) with secondary containment, and the tank staging area will be located away from the stormwater management system. Wastewater from the burn pit will be collected, recycled and reused, which requires an oil/water separator, a waste fuel tank, a treatment system to process AFFF-laden wastewater, and a sludge collection tank. As an added measure of protection, a flexible membrane liner (or "geomembrane" system) should be constructed beneath the fire training area and a groundwater monitoring system installed to detect contaminated media.

[9] AFFF poses environmental concerns due to its resistance to biodegradation, high chemical oxidation demand (COD), toxicity, and its extreme foaming capability.

2.3.4 Historic Sites

The project site and surrounding area has been investigated for the presence/absence of historic and cultural resources. Four historic sites were identified in the vicinity of the project; they are: 18AN788, 18AN1596, 18AN1597, and 18AN877. According to the Preliminary Final EA, impacts to these sites, if any, would not be considered an adverse effect because of the amount of prior disturbance which has already affected the integrity of these sites.[10]

2.3.5 Groundwater

BWI Marshall Airport, including the project site, is located outside the recharge area associated with unconfined and semi-confined wells of the Glen Burnie Public Water System.[11] As shown in **Figure 2**, the Glen Burnie Area is located in northern Anne Arundel County and south of the airport, and the well fields are located within an area that ranges approximately 1 to 3 miles south and southeast of the airport property. The ARFF training facility would not be expected to affect these well fields.

[10] Preliminary Final Environmental Assessment and Section 4(f) Evaluation, Proposed Improvements 2016-2020 at Baltimore/Washington International Thurgood Marshall Airport (January 5, 2018).

[11] Source Water Protection Plan for the Glen Burnie, Maryland, Public Water System (October 2013).

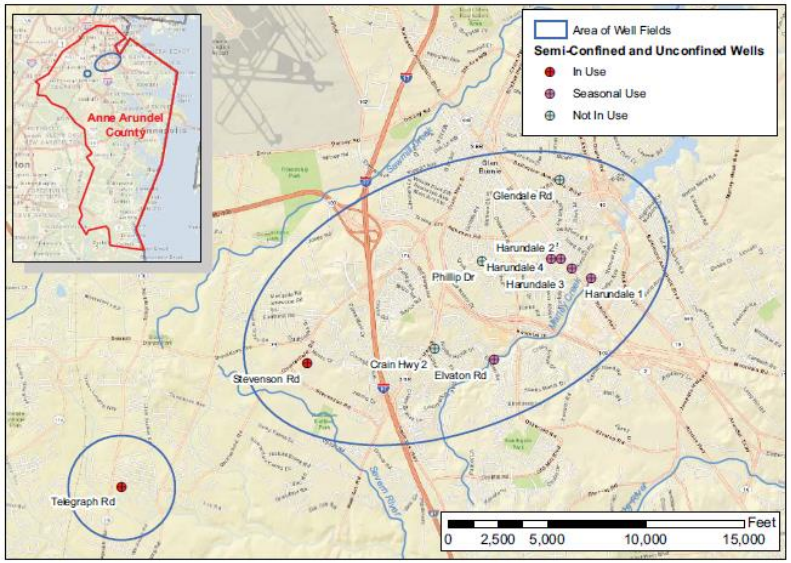


Figure 2: Proximity to Water Supply Wells (Glen Burnie Public Water System)

The project site is, however, located within a wellhead protection area (WHPA) identified in the Anne Arundel County Wellhead Protection Plan[12] (see **Figure 3**). A municipal water supply well (Dorsey 18) is located approximately 1,500 feet east of the project site near the intersection of Aviation Boulevard and Cromwell Park Drive (co-located with the Royal Farms convenience store, gas station and underground fuel storage tanks). The WHPA includes two (2) zones of protection, with Zone 1 being the most restrictive. The project site is located near the outer limit of Zone 2. Given the proposed use and storage of hazardous materials required to operate the ARFF training facility, further investigation and coordination with the County will be needed to determine what conditions may apply to obtain approval for the project in this location.

A model wellhead protection overlay ordinance has been developed by MDE for local governments to use.[13] Although Anne Arundel County has not adopted the ordinance, it is recommended to review the draft ordinance for compliance and to monitor the status of the ordinance in the event it could be formally adopted.

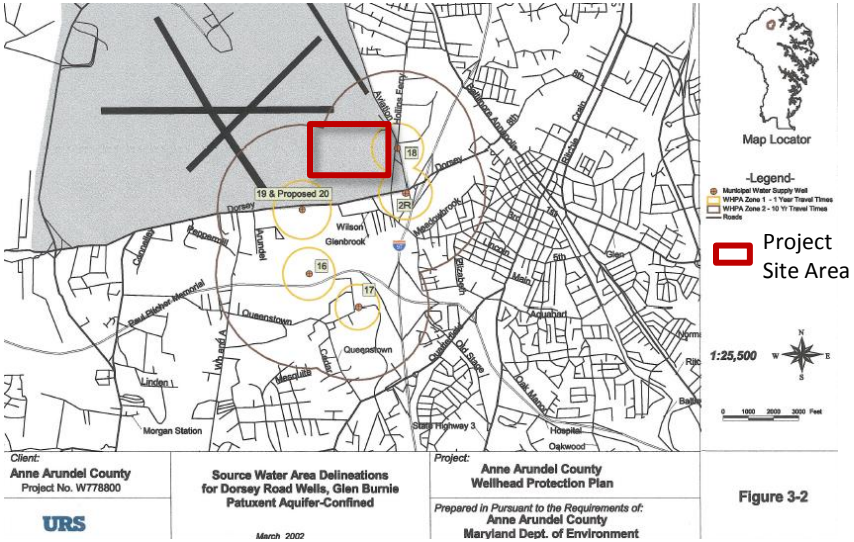


Figure 3: Proximity to Water Supply Wells (AAC Department of Public Works)

[12] Final Wellhead Protection Plan for the Glen Burnie, Broad Creek Pressure Zone, and City of Annapolis Study Area. Prepared for the Department of Public Work, Anne Arundel County, Maryland, by URS Corporation (June 2003).

[13] Source Water Protection Plan for the Glen Burnie, Maryland Public Water System, October, 2013

2.4 Utilities and Infrastructure

2.4.1 Electricity

Electric service will be provided by the Baltimore Gas and Electric Company (BGE) and permitted by Anne Arundel County. BWI Marshall has two substations—North and South. The South substation is nearest to the project site but there is no capacity available to accommodate additional demand. Therefore, new and separate service will need to be requested and designed in consultation with BGE using existing power cables that run above ground along Aviation Boulevard.

2.4.2 Water

Water service will be provided by Anne Arundel County Department of Public Works. The nearest commercial service is a 16 inch steel pipe that runs underground along Aviation Boulevard. New service to the site will need to be requested and designed in consultation with the County's Bureau of Utility Operations.

2.4.3 Sewer

Sanitary waste from the training facility must be routed to the airport's private sewer system that flows to Baltimore City. The nearest point of access is an existing man-hole (MH-14), which is located ±5,800 feet west of the project site near the ARFF station. Due to the extensive distance, a lift station and force main will be required. Due to the routing, horizontal drilling is also required to cross underneath Taxiway "D" and Runway 15R-33L to reach MH-14.

2.4.4 Natural Gas

Gas service will be provided by BGE and permitted by Anne Arundel County. The nearest commercial service is a steel pipe that runs underground along Aviation Boulevard. The size of this pipe is unknown. New service to the training facility will need to be requested and designed in consultation with BGE and the County's Bureau of Utility Operations.

2.4.5 Telecommunications

The ARFF training facility must connect to the MAA's fiber optic network for the fire alarm system, security system, telephone/data system, etc. The nearest point of access is a junction box at/near the MAC Building.

2.4.6 FAA Connectivity

The ARFF training facility will not be connected to any FAA power cables or communications lines and there are no known FAA cables or lines located within the project site.

3 SITE LAYOUT

The project site is ±27 acres and consists of the fire training area, the classroom training building, access roadways and parking, stormwater management and drainage areas, and site utilities (see **Figure 4**).

3.1 Fire Training Area

The training area consists of a burn structure equipped with an aircraft mock-up, the surrounding ARFF vehicle maneuvering area, a control tower, supplemental fire training simulators, and various support systems for fuel storage and delivery, and wastewater treatment. The facility layout and design must comply with the requirements set forth in FAA AC 150/5220-17A, Aircraft Rescue and Fire Fighting (ARFF) Training Facilities, as well as the National Fire Protection Association (NFPA) 1003 requirements for aviation firefighter training.

3.1.1 Burn Area Structure

The fuel spill burn area, or burn pit, provides fire fighters with a realistic scenario to practice responding to, gaining control of, and extinguishing a ground based, aviation fuel spill fire typical of an aircraft accident or incident. The proposed fire generation system allows for "dual-fueled" simulations that burn either jet fuel for maximum realism or propane for computer-generated fire training scenarios.

The size of the burn area is a function of the airport ARFF Index.[14] BWI Marshall's airport master plan states that the ARFF training facility should be designed to meet ARFF Index D. However, as a regional training facility that is likely to be used by other large airports including Ronald Reagan Washington National Airport (DCA) and Washington Dulles International Airport (IAD), and potentially Philadelphia International Airport (PHL) and Dover Air Force Base, for planning purposes the burn area dimensions are based upon ARFF Index E, which includes aircraft at least 200 feet in length.

[14] 14 CFR 139.315 – Aircraft rescue and firefighting: Index determination.

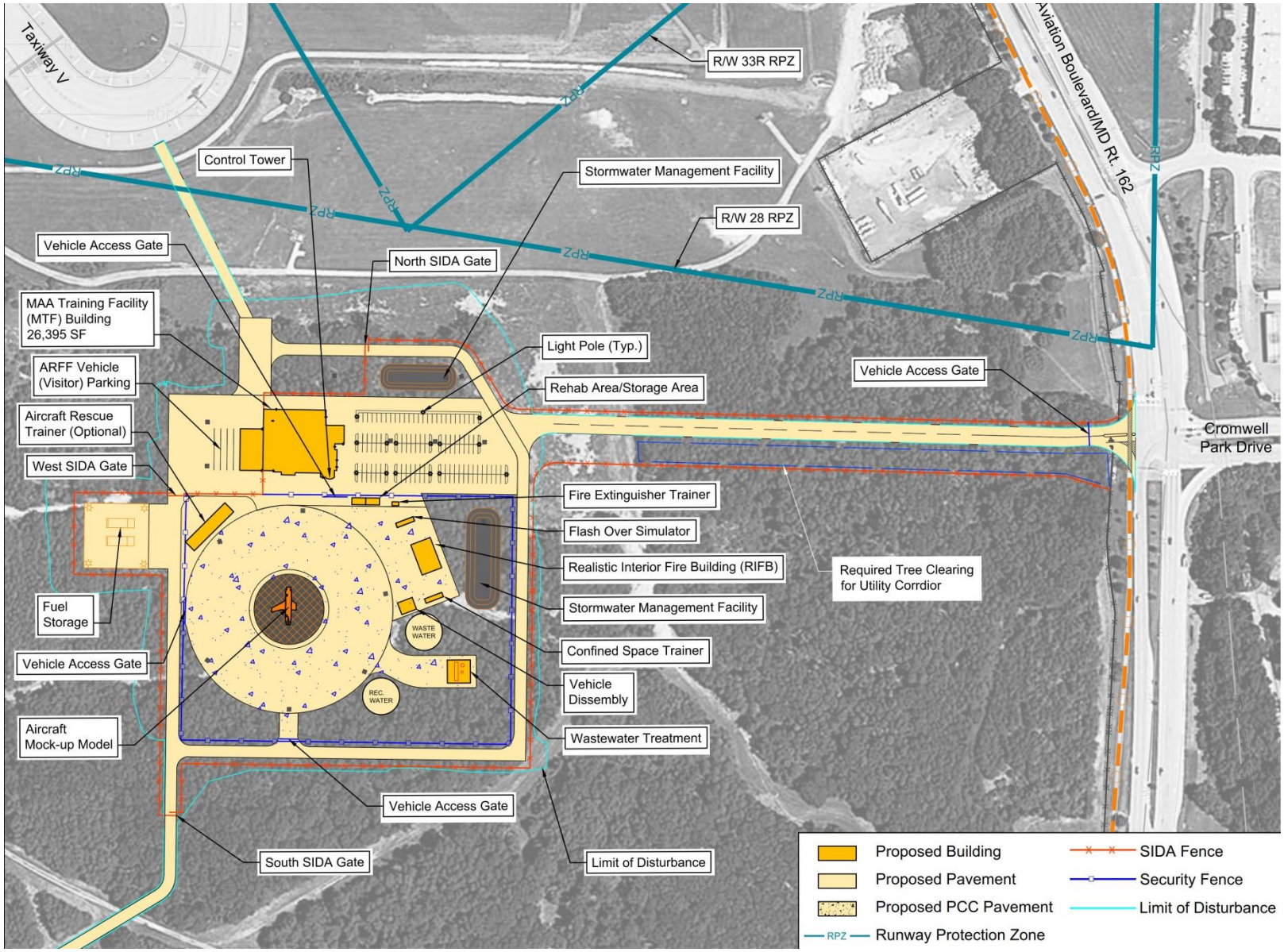


Figure 4: Site Layout Plan

The burn area is a circle with a diameter of 152 feet and consists of a concrete basin and a perimeter curb (refractory as required) to retain fluids (see **Figure 5**, as an example). The basin will be covered by crushed stone or concrete with depressed steel grates and it has a drainage system that flows to a wastewater treatment system. Below the basin is a flexible membrane liner as a secondary means of containment to safeguard groundwater. The burn area also includes a single aircraft mock-up orientated with its nose-axis directed toward the control tower.

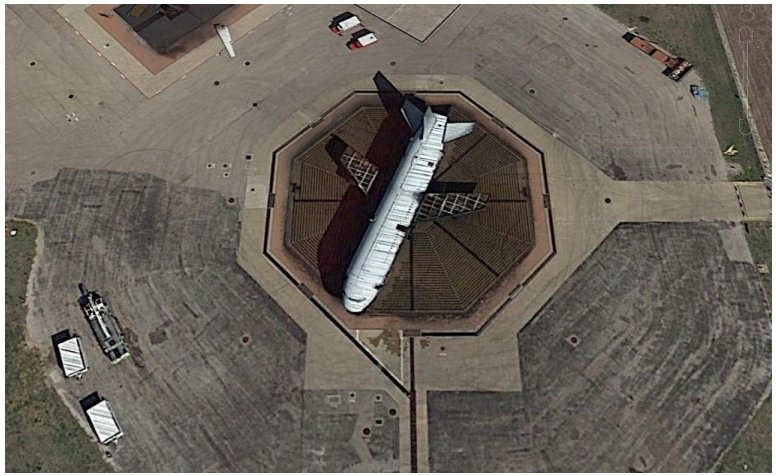


Figure 5: Burn Structure Area

3.1.2 Vehicle Maneuvering Area

The burn area will be surrounded by a Portland cement concrete apron with a drainage system for collection and treatment of training spills, rainfall, and snow melt (see **Figure 6** as an example). The surface area is designed to accommodate fully loaded ARFF vehicles, sized to allow for the tactical operation of ARFF vehicles and deployment of personnel, and gradually sloped to collect and convey runoff towards a water quality treatment system. Adjacent to the burn area, the concrete apron is extended to include the simulators for the other ARFF training activities. As shown on the Site Layout Plan (Figure 4), the total concrete apron area is ±20,000 square yards.

Figure 6: Vehicle Maneuvering Area

3.1.3 Aircraft Mock Up

The aircraft mock-up, or Specialized Aircraft Fire Trainer (SAFT), will be a fixed structure located in the center of the burn pit (see **Figure 7** as an example) and orientated with its nose-axis directed at the control tower. High intensity propane burners are used to recreate a series of different emergency scenarios including interior and exterior incident fires, all managed by the adjacent control tower with complete command control over the fire training. The SAFT consists of a 75-foot mock-up of a modified narrow-body or wide-body aircraft fuselage (main deck and broken wing) with customized piping for delivering propane to nozzles or other burner elements. Simulated fire scenarios include an interior cabin fire, cockpit fire, an engine fire, an auxiliary power unit (APU) fire, a wheel/brake fire, and others. The SAFT is outfitted with ventilation systems, water supply and sprinklers for cooling, and compressed air can be provided for simulating a tire explosion.

Figure 7: Simulated Aircraft Fire Trainer

3.1.4 Control Tower

The control tower will be located in the southeast corner of the classroom training building and provides the instructor or safety officer with an elevated viewing area for monitoring and control over the fire training exercises (see **Figure 8** as an example). From the tower cab, computer workstations provide full control of the mechanical and electrical connections to the burn pit area, safety shutdowns, communications systems, and can include video monitoring of the entire site. Training software and hardware are included as part of the computer system. The control tower will be located upwind from the burn pit to alleviate blinding smoke and fire hazards caused by wandering gas vapors.

Figure 8: Burn Pit Control Tower

3.1.5 Fuel Supply and Storage

A dual fuel tank facility is proposed that includes both jet fuel and propane options to support a wide range of ARFF training scenarios (see **Figure 9** as an example). The fully-integrated system includes fuel storage tanks, explosion-proof pumps, metered supply piping, and a delivery network to the burn area structure including the aircraft mock-up/SAFT.

Fuel tank installation is proposed to be at-grade. Both fuels utilize aboveground storage tanks (ASTs) on concrete slab foundations. The jet fuel tank(s) should have capacity for approximately 20,000 gallons total. Tank design requirements include steel construction with welded joints; secondary containment/double-wall tanks to prevent leakage; venting so fumes can escape; cathodic protection to reduce corrosion; curbed spill dike area; and, spill prevention/control measures as needed to comply with MDE permit requirements. As an added mitigation measure, groundwater monitoring may be required.

The propane tank(s) will have capacity for a minimum of 4,000 gallons total. Additional capacity may be needed depending on the frequency of burn pit operations using propane. This will be a regulated pressure delivery and gas exchange system. Tank design requirements include steel tank construction with welded steel joints and cathodic protection to reduce corrosion.

Ancillary items include a service road for access/egress and a filling port for truck deliveries, protective bollards to ensure trucks and other vehicles do not impact the tank facilities, and requisite fencing, lighting, signage, etc., appropriate for a bulk fuel storage facility.

Figure 9: Fireguard™ Above Ground Tanks

3.1.6 Wastewater Treatment

Burn pit operations generate industrial wastewater containing suspended solids, oils and greases (O&G), petroleum hydrocarbons, emulsion stabilizing agents, and aqueous, film-forming foam (AFFF) liquids. Addressing these waste streams often causes fouling of existing treatment equipment, commonly oil/water separators, or risk of discharges to the environment that exceed regulatory standards. Therefore, on-site treatment is proposed to recycle and reuse the water required for burn pit operations.

The only practical treatment system available for efficient oil/water emulsion and AFFF removal is the Air-Sparged Hydrocyclone (ASH) technology (see **Figure 10**). This process transfers contaminated

wastewater from the burn pit to a storage tank for treatment through the ASH unit so the treated wastewater can be used to refill the burn pit for the next fire training operation. For this application, the ASH unit would be manufactured in a permanent configuration to be part of the fire training facility. Generally, the unit is mounted inside a metal container and is connected to wastewater storage and recycled water storage tanks, a sludge collection tank, chemical mix tank, and a fuel/water separator.

Figure 10: Industrial Wastewater Treatment/ASH Technology

Primary treatment using ASH technology reduces concentrations of O&G and AFFF to a level that is typically below the limit for discharge to the municipal sanitary sewer system, if necessary. A secondary treatment option would be required to reduce concentrations to a level typically below the limit for discharge to the stormwater system, which is not proposed or expected to be necessary.

3.1.7 Burn Building

A realistic interior fire building (RIFB or burn building) will be provided for Class A structural training (see **Figure 11** as an example). The RIFB is a burn prop that replicates the intense fire, heat, and smoke of an interior structural fire and is used for breathing apparatus training or search & rescue drills. The basic fire scenarios in the RIFB can include a burn room, a burn area, an inset balcony, internal stair, external stair, and roof vents. The specified fire source material will be Class A: ordinary combustibles such as approved clean wood; no fuel lines are proposed.

Figure 11: Realistic Interior Fire Building

The RIFB will be a two-story metal or masonry building on a concrete slab foundation. The structure is designed throughout with a protective lining system able to withstand repeated high temperatures and extreme thermal shock created during fire evolutions. The base of the RIFB has floor drains for capturing discharged fire water, which will be conveyed to the wastewater treatment facility.

3.1.8 Aircraft Rescue Trainer

The site layout plan provides a space allowance for an aircraft rescue trainer. The trainer will be either an actual or simulated aircraft fuselage that is modified to support non-fire training exercises such as passenger evacuations, medical emergencies, hazmat situations, and other crisis management incidents often triggering procedures for mutual aid response (see **Figure 12** as an example). This is an optional component of the project that would allow these ARFF training activities to be relocated from the existing aircraft parked in the Gold Lot to the new ARFF training center.

Figure 12: Boeing 727 Mock Medical Response Exercise

3.1.9 Flashover Simulator

Flashover is the stage of a fire during which radiant heat from burning objects causes all combustible surfaces to reach their ignition temperature, causing the entire room to erupt into flames. Flashover can occur in as little as three minutes as temperatures quickly reach 1,100 – 1,500 degrees. The flashover simulator gives firefighters the opportunity to observe fire progression and behavior from ignition to flashover in a controlled setting.

The flashover simulator will be a packaged system consisting of a split-level container with a 20’ observation module, a 10’ burn module, adjustable vents, and fire doors (see **Figure 13** as an example). The specified fire source material will be Class A: ordinary combustibles such as approved clean wood; no fuel lines are proposed. The simulator has floor drains for capturing discharged fire water, which will be conveyed to the wastewater treatment facility as part of the ARFF burn pit drainage system. The simulator is mounted to a concrete slab foundation.

Figure 13: Flashover Simulator

3.1.10 Confined Space Rescue Trainer

Aircraft cabins are a good example of a confined space with obstacles and barriers that can cause entrapment of the firefighter. This simulator assists ARFF personnel in meeting the training needs for a confined space rescue (see **Figure 14** as an example). The modular package is completely customizable and can be multi-level with varying types of realistic confined space environments. No live fire is specified for this training activity so there will be no need for fuel lines, water lines or environmental controls.

Figure 14: Confined Space Rescue Training Package

3.1.11 Vehicle Disassembly

This training area provides first responders with the practical skills needed for the swift extrication of victims from a variety of vehicle entrapments (see **Figure 15** as an example). Training exercises involve the use and destruction of a vehicle using heavy rescue tools, rescue systems, saws, spreaders, and tools designed to cut through new automotive materials. The tools and techniques used in vehicle extrication are applied to any situation where a patient must be removed from an area of entrapment. The training area will be a concrete slab foundation with drainage features to collect and convey any spilled fluids to an oil/water separator.

Figure 15: Vehicle Extrication

3.1.12 Fire Extinguisher Training

This area provides fire fighters and other first responders with hands-on training with fire simulations using portable fire extinguishers in a safe learning environment (see **Figure 16** as an example). The training area will be a concrete slab foundation with various props used to demonstrate various types of extinguishers and other fire protection equipment. Drainage features will be provided to collect and convey spent extinguishing agents towards the wastewater treatment system.

3.2 Classroom Training Building

The ARFF training building will be a ±26,000 square foot single-story structure (except for the control tower) and will be located on the north side of the fire training area with the control tower overlooking the burn area structure. More detailed information about the building is provided next in **Section 4: Building Layout**.

Figure 16: Fire Extinguisher Training

3.3 Vehicular Access

The training building will be situated along the Airport Operations Area (AOA) fence line to allow vehicular access from both the airside and the landside.

3.3.1 Landside Roadways

The main entrance will be a two-lane, east-west roadway that connects to Aviation Boulevard at the intersection of Cromwell Park Drive. The existing three-way, controlled intersection will be modified to become a traditional four-way intersection. **Figure 18** depicts the improvements needed to accommodate the project. Preliminary design will require a traffic impact analysis as well as coordination with the Maryland SHA Access Permit Division.

A road closure fence gate will be provided near the main entrance to prevent unauthorized vehicles from entering the property when the training facility is closed (see **Figure 17** as an example). Curb cuts and pavement markings are also provided to identify and maintain the existing bike lane.

Figure 17: Road Closure Fence Gate

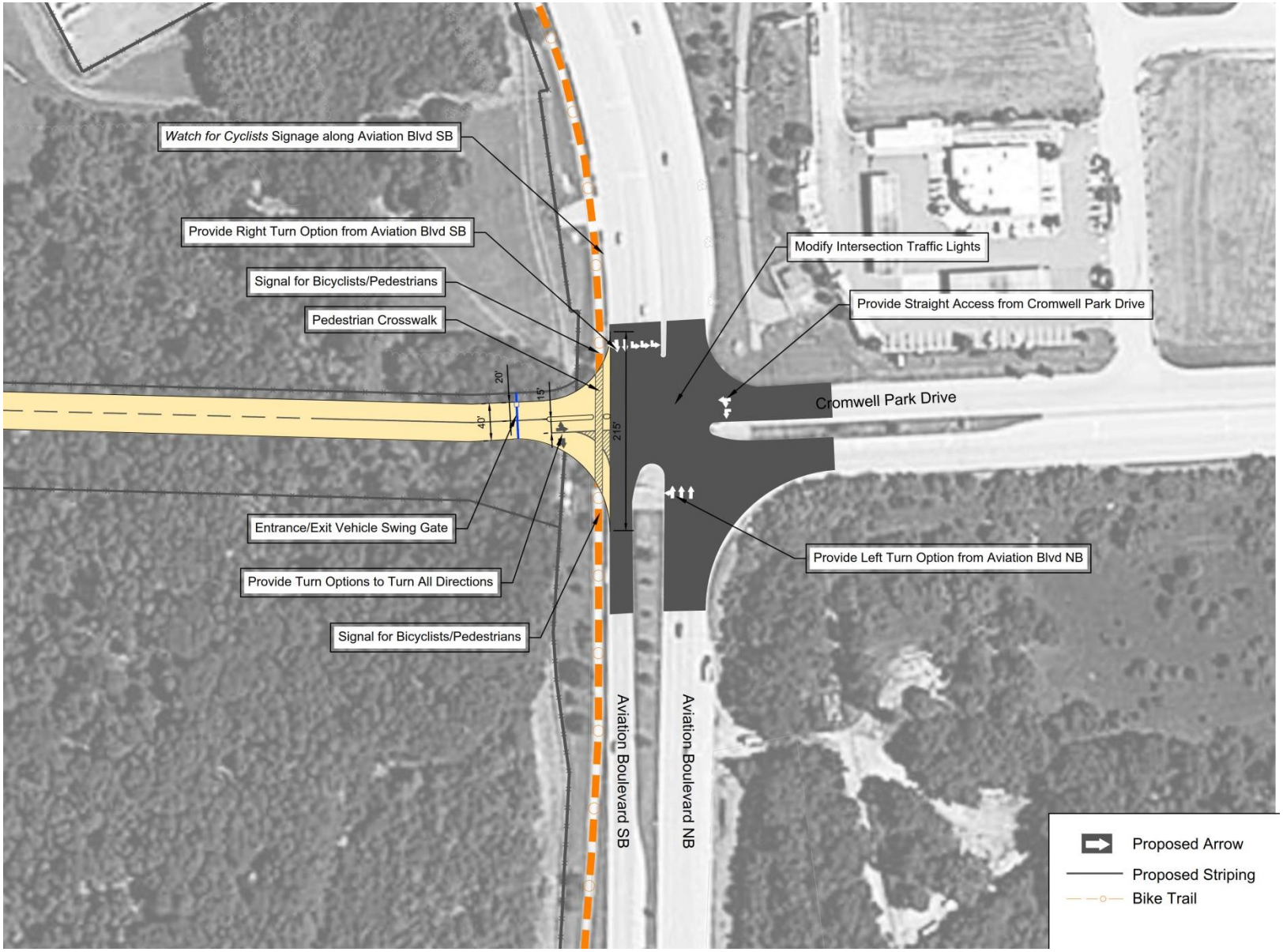


Figure 18: Aviation Boulevard Intersection Improvements

From the main entrance road, a perimeter service road extends around the south side of the fire training area and leads to the fuel storage tanks and terminates at the AOA gate. Along this service road, two separate driveways connect to the ARFF vehicle maneuvering area in compliance with FAA standards. A second perimeter service road extends around the north side of the building, through an AOA gate, and terminates at the ARFF vehicle service road that connects to Taxiway "V".

For the main entrance road and perimeter service roads, all roadway design standards, turning movements and associated geometry must be able to accommodate ARFF vehicles and equipment including firefighting apparatus as well as semi-trailer trucks for fuel deliveries.

There are 123 vehicle parking spaces located near the east entrances to the building—six islands with 16 spaces each plus 27 spaces along the north side of the parking lot. The parking area includes allowances for handicapped parking, vehicle circulation in front of the main doors, a fire lane, and loading zone for deliveries to the kitchen/catering area along the north side of the building.

3.3.2 Airside Access and Gates

The ARFF training facility will be located along the Airport Operations Area (AOA) fence line. As shown on the Site Layout Plan (Figure 4), three security gates allow authorized vehicles to pass between the airside/secure and landside/non-secure areas. The North Gate is located along the perimeter road on the north side of the training building. The South Gate is located along the perimeter road on the south side of the fire training area. A third gate allows vehicles to pass between the fire training area (non-secure) to the building apron near the ARFF vehicle storage bays (secure). Each gate is equipped with access controls that require a magnetic card issued only to persons authorized to operate a vehicle within the AOA.

Two airside vehicle service roads (VSRs) provide access to the site from within the AOA. The South VSR is an unimproved road between TW "D" and the South Gate. This road will need to be improved if it is to be used regularly. The North VSR will be a new connection between the training building and Taxiway "V." The AOA fence line is situated to allow ARFF training vehicles to pull through and park inside the vehicle/equipment storage bays while remaining on the airside of the building.

3.4 Grading, Drainage and Stormwater Management

A rough grading analysis has been prepared to estimate the project's limit of disturbance (LOD), quantity of earthwork required, the building's finished floor elevation (FFE), and to create a conceptual drainage plan for the project site. Control points for the analysis are Taxiway "V" to the north, Aviation Boulevard to the east, and the South VSR. A preliminary grading and draining plan is shown in **Figure 19** and the results of the analysis are presented below:

- Site elevation at Taxiway "V": 123 feet
- Site elevation at the South VSR: 127 feet
- Site elevation at Aviation Boulevard: 88.7 feet
- Site elevations at the training building: 111 feet to 120 feet

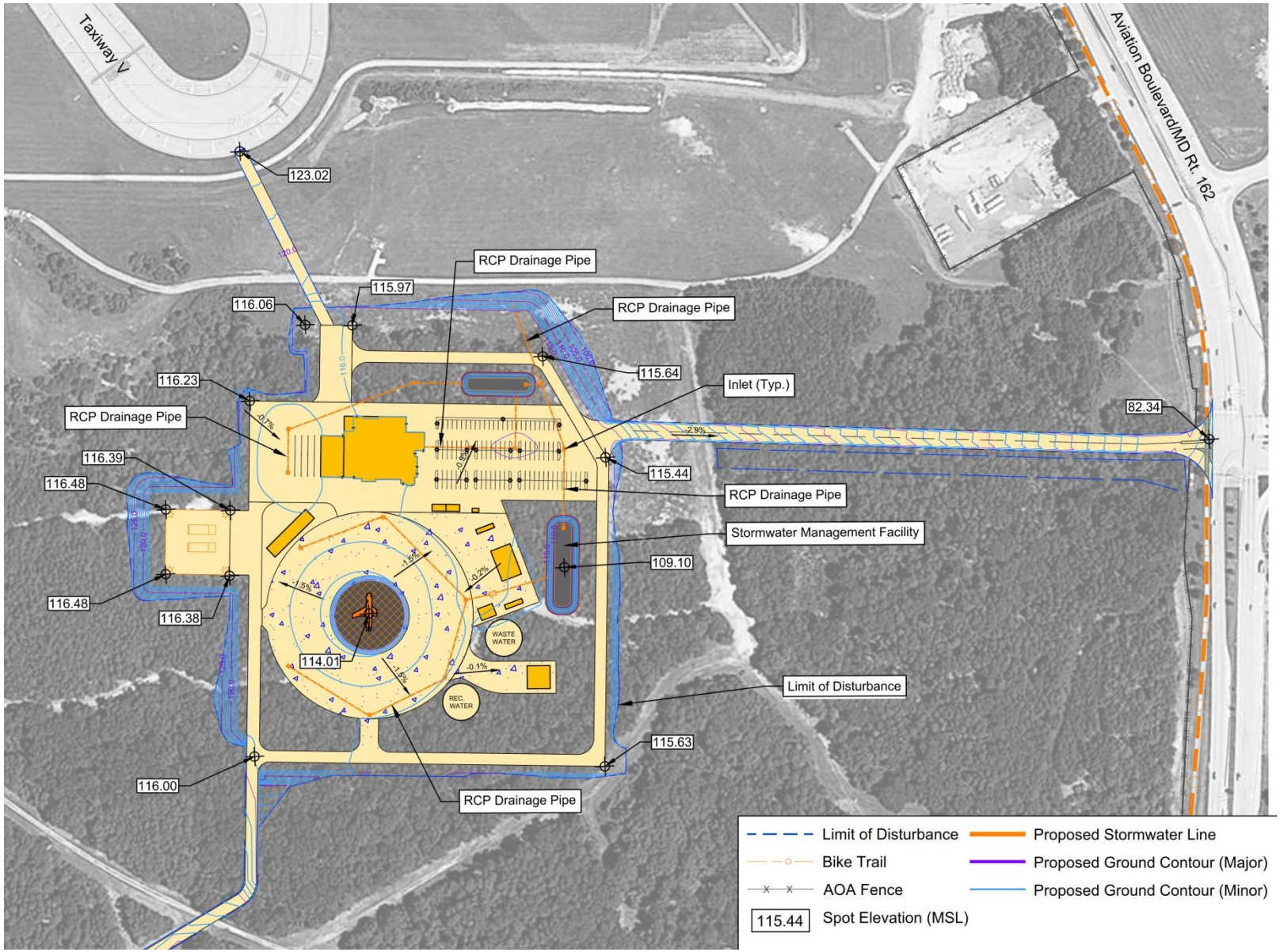


Figure 19: Preliminary Grading & Drainage Plan

- Estimated finished floor elevation (FFE): 116 feet
- Limit of disturbance: 27 acres
- Estimated cut: 117,100 cubic yards
- Estimated fill: 58,200 cubic yards
- Net cut: 58,900 cubic yards
- Deforestation: 21 acres

Overall, the grading analysis indicates a net cut resulting in ±58,900 cubic yards of surplus material that will need to be hauled and disposed of off-site or to the airport stockpile. No retaining walls or embankments are anticipated.

The project will add ±12.7 acres of impervious area. A stormwater management system will be provided to reduce runoff and improve water quality. Two infiltration basins are shown on the Site Layout Plan and will be designed to infiltrate stored water within 24 hours of a storm event. The basins have bio-retention features to remove contaminants and sedimentation from storm runoff and an underdrain pipe to collect and convey subsurface water toward Irving Branch that runs along the north side of the project site. The basins will be sized to treat runoff from the parking lot and the vehicle maneuvering area when it is not in use. When the fire training area is active, a diverter valve redirects runoff firewater from the vehicle maneuvering area to the wastewater treatment plant.

In general, the project site appears to have adequate space available to treat runoff in accordance with MDE stormwater requirements and Chesapeake Bay Total Maximum Daily Load (TMDL) goals. No stormwater volume computations were prepared for this PDD. Therefore, it is recommended to prepare planning level computations early in the design phase to ensure that the allocated space for the stormwater features will be adequate to provide the volume needed. It can also be determined if there are opportunities to provide additional or excess water quality volume that can be counted towards TDML goals.

3.5 Utilities

This section identifies the planned service connections needed to accommodate the project as shown on **Figure 20** of the plan set of drawings. All incoming service lines, except water, are planned to be routed through the building electric/mechanical rooms and distributed as needed to support the various site elements. Generally, a utility right of way is planned to parallel the main entrance road for connection to existing utilities located near the intersection of Aviation Boulevard and Cromwell Park Drive, the exception being sanitary sewer and telecommunications as discussed below.

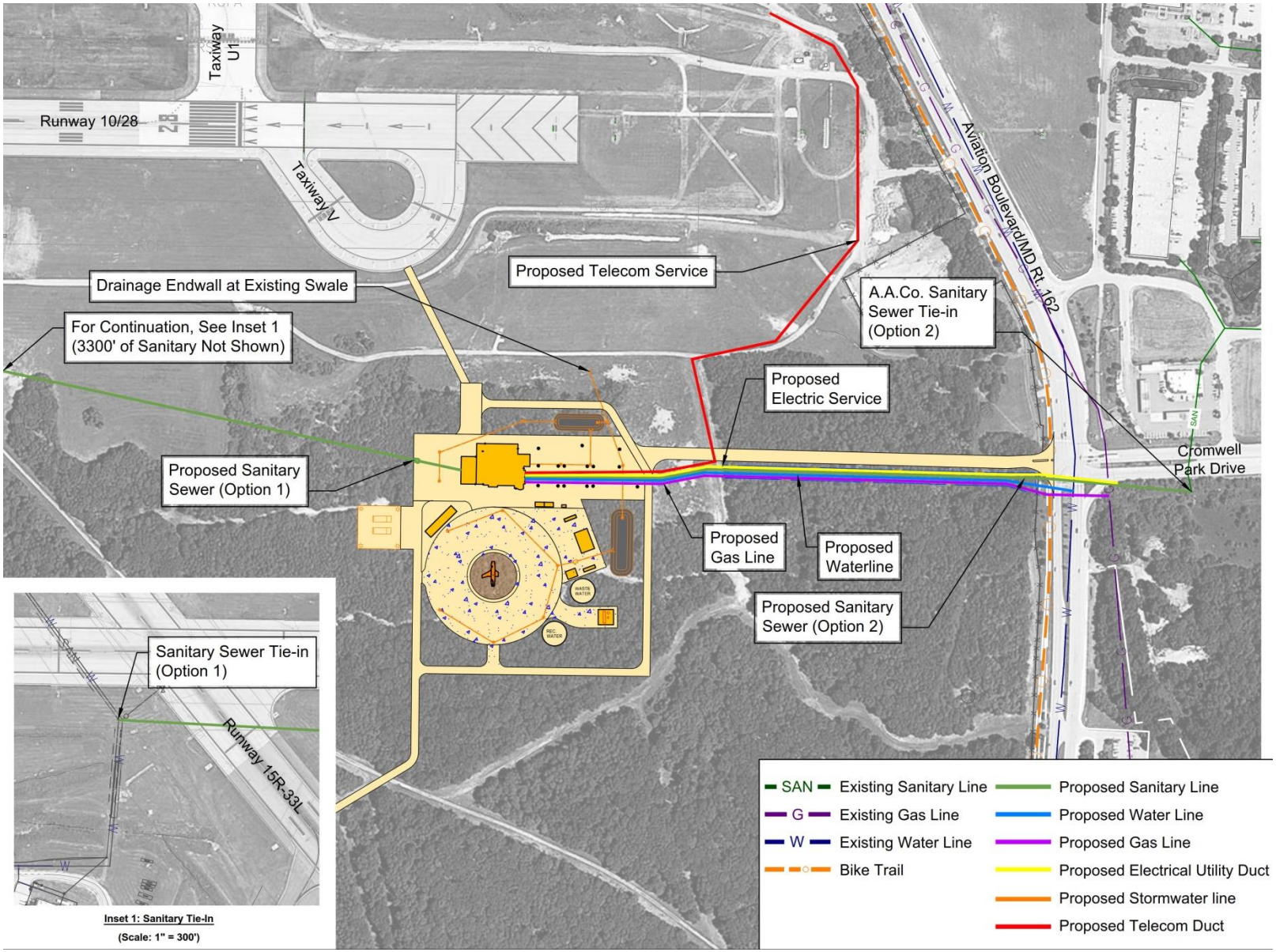


Figure 20: Proposed Utilities

3.5.1 Electricity

Electrical service will be provided using buried duct bank and cables that run along the entrance road and tie into BGE service lines located near the intersection of Aviation Boulevard and Cromwell Park Drive. A service transformer will be needed and the final location will be determined by the project electrical engineer and BGE engineer on site. An outdoor diesel generator will be required to provide standby power. The generator will be located at the east end of the building, close to the electrical room. Power to facilities in the fire training area include, but my not be limited to, the following: fuel/water delivery network; wastewater treatment plant; AOA gates; and floodlights. Depending on the sanitary sewer option, power for a pump/lift station may be needed.

3.5.2 Domestic Water

Domestic cold water service runs underground along the entrance road and ties into an existing 18-inch ductile iron pipe (DIP) that runs along on Aviation Boulevard. There are an estimated 27 hot/cold water fixtures throughout the training building including sinks, lavatories, showers, dishwashers, drinking fountains, a commercial washing machine, hose bibs, etc.. Water service for facilities in the fire training area include, but my not be limited to, the burn area structure, vehicle maneuvering area, and the wastewater treatment plant.

3.5.3 Fire Protection

Fire water flow/sprinkler demand is generally a function of the area, use, and occupancy of the building as well as the type of construction. Site fire hydrants will also be required and special consideration must be made for the layout because of parking and maneuvering, and the airside/landside design of the facility. Water supply will be either a shared or separate cold water pipe that runs along the entrance road and connects to the 18-inch water main along Aviation Boulevard.

3.5.4 Sanitary

Based upon the building use and occupancy, a conservative estimate of the sanitary demand is 3,000 gallons per day. Two sanitary options are identified on the site plan.

Option 1 would tie into the airport's sanitary system which flows to the Baltimore City treatment plant. The nearest location for a connection is ±5,800 feet west of the project site near the ARFF station, which requires ±800 linear feet of horizontal directional drilling to install the sewer pipe underneath Taxiway "D" and Runway 33L. The rise in elevation is ±17 feet; therefore, a sewage pump/lift station will be needed to move the wastewater upward to the higher elevation.

Option 2 would tie into Anne Arundel County's sanitary system. The nearest location for a connection is an 8 inch sanitary pipe located ±2,500 feet east of the project site. Under this option, a 6 to 8 inch sanitary pipe is installed underground along the entrance road and connects to the County's system at the intersection of Aviation Boulevard and Cromwell Park Drive. The elevation in this direction falls ±27 feet thus achieving gravity flow; therefore, no pump/lift station is needed for Option 2.

Option 2 is preferred because it would be far less expensive to construct and it avoids the airfield impacts associated with Option 1. The program cost differential is approximately $1.3 million. The issue is that Anne Arundel County has stated in the past that no capacity is available in their system to accommodate airport projects, and previous applications have been denied. Further consultation with the County is recommended to discuss the feasibility of Option 2 when compared to Option 1 and to determine if there is a practical solution that would allow the proposed ARFF training facility to be connected to the County's system.

Two other options involve non-residential wastewater systems; both options were considered and neither option is recommended at this time. Option 3 would be to install a modular system to treat and release sanitary wastewater to the stormwater management system. Option 4 would be to install a non-residential septic tank and drain field. Due to operational and environmental downsides associated with both options, the MAA Office of Environmental Compliance stated that Options 3 and 4 should only be considered as a last resort, if it is determined that Options 1 and 2 are not feasible.

3.5.5 Natural Gas

Gas service runs underground along the entrance road and connects to BGE service lines located near the intersection of Aviation Boulevard and Cromwell Park Drive. Demand for gas service to the building will be a function of the HVAC, hot water heater and appliances such as a stove, clothes dryer, etc. For planning purposes, gas supply for the fire training area will be an on-site propane tank. Conversion to natural gas for the fire training simulators may be an option depending on vender equipment and specifications. BGE will need to verify available capacity within the service along Aviation Boulevard.

3.5.6 Communications/Connectivity

Telephone and cable service lines run underground along the entrance road and connect to the providers' systems located near the intersection of Aviation Boulevard and Cromwell Park Drive.

For connectivity to the airport's fiber optic network (IT/computer network, closed circuit television (CCTV), computer assisted surveillance system (CASS), etc., a fiber optic line will be needed to run north around the end of Runway 28 to the MAC building.

4 BUILDING PLAN

Adjacent to the fire training area, the training building provides classrooms, offices, support space, and vehicle storage bays for the ARFF training functions, and for organizational continuity the airport's Emergency Operations Center (EOC) will be relocated here. The building also provides employee training required for FAR Part 139 certification and for other airport-related job classifications. The overall building layout is shown below in **Figure 21**.

4.1 Orientation

The building footprint and floorplan is arranged to provide ARFF training personnel with line-of-sight and physical access to the fire training area and with the control tower facing south towards the aircraft mock-up located in the center of the burn area structure.

4.2 Configuration and Layout

The ±26,000 sf building will be divided into five functional areas:

- ARFF Training – 13,905 sf
- Part 139 Training – 1,920 sf
- Emergency Operations Center – 3,465 sf
- MAA Training – 6,255 sf
- Building Services – 850 sf

The ARFF training functions are located along the south side of the building, MAA training is located along the north side of the building, and the EOC is located in between. Separate main entrances for this internal separation are provided with east-west corridors for access to the various functional spaces.

All entrances for employees, trainees and visitors are located along the east side of the building adjacent to the parking lot. The high-bay ARFF vehicle storage area is located along the west end of the building and provides drive-through lanes with direct access to the airfield. If additional bays are needed, the building can be expanded to the west.

The SIDA line of demarcation line runs generally north-south through the building such that only the vehicle equipment bays are located within the secure area. The high-bay vehicle storage bays provide the ceiling height/clearance needed to accommodate the vertical training/loft area. And the building electrical and mechanical rooms are located on the east side of the building facing the direction (east) from which the utility mains will be brought into the site.

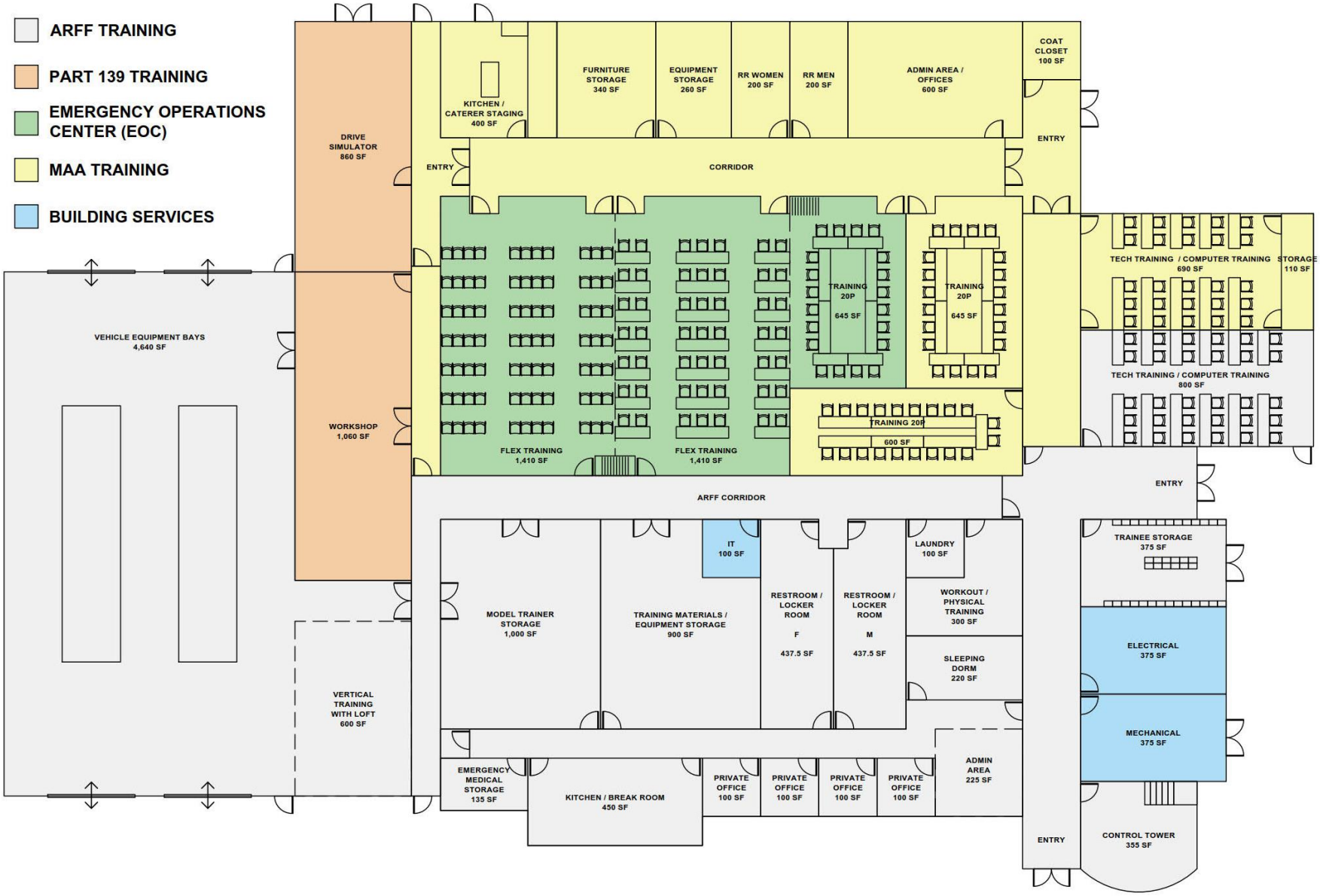


Figure 21: Building Layout Plan

4.3 ARFF Training

This area supports the logistical, functional and administrative requirements of the ARFF training program and totals 13,905 sf (see **Figure 22** and **Figure 23** as examples). The space program consists of general ARFF operations and special training elements such as the control tower, the fixed table tech training/computer training room and accommodations for visiting trainees. As shown in the Building Layout Plan, the general circulation loop connects the main entry to the administration office area and ARFF burn pit to the vehicle storage area and back to a service corridor.

Figure 22: Classroom Training

Figure 23: Emergency Medical Technician Training

Functional areas inside the building include:

- **Tech Training/Computer Training (800 sf) –** one (1) standard 25 person technical training classroom with fixed tables, computer workstations and an overhead projector
- **Trainee Storage (375 sf) –** personal lockers for each trainees' firefighter clothing and personnel protective equipment (PPE)
- **Workout/Physical Fitness (300 sf) –** an exercise room with fitness equipment for cardio, strength and endurance training
- **Offices/Admin (625 sf) –** personal workspaces for the lead ARFF instructor, training personnel, and a reception area
- **Kitchen/Breakroom (450 sf) –** a separate/dedicated employee lunchroom with kitchen appliances, cabinets, counter space, and tables and chairs
- **Model Trainers/Storage (1,000 sf) –** an area for using and storing AFFF training props such as aircraft interior mock-ups including kitchen galleys, cabin seats, exit doors, etc.
- **Training Materials/Equipment Storage (900 sf) –** a storage area with cabinets and shelves for safekeeping fire/rescue equipment, tools and accessories
- **Emergency Medical Service (EMS) Storage (135 sf) –** an area for storing and safekeeping EMS supplies, first aid products, and medical teaching and training equipment
- **Restroom/Lockeroom (875 sf) –** men's and women's lavatories/showers with dressing areas
- **Sleeping Dorm (220 sf) –** common space for lounging, studying and sleeping which can accommodate eight (8) stacked bunks
- **Laundry (100 sf) –** a laundry room with a commercial washer/dryer for maintaining fire/rescue personnel uniforms and PPE

The ARFF training area also includes:

- **Fire Training Area Control Tower (355 sf) –** As discussed earlier in Section 3 and shown in Figure 8, the control tower is located it the southeast corner of the classroom training building and provides the instructor or safety officer with an elevated viewing area for monitoring and control over the fire training exercises.

- **Vehicle Equipment Bays (4,640 sf) –** indoor parking and storage for vehicles and equipment used for ARFF training exercises; the indoor space is also useful for conducting large-scale exercises such as triage training in a climate controlled environment (see **Figure 24** as an example).

- **Vertical Training (600 sf) –** within the vehicle equipment bays, a dedicated area is provided for airport fire/rescue training related to ropes, rapelling, and operating rope-lowering systems from an elevated position (see **Figure 25** as an example). This includes safely ascending and descending a high-angle environment and understanding and operating a rope-rescue system intended to move a patient/victim either vertically or horizontally in a safe and controlled manner.

Figure 24: Fire-Rescue Triage Training

Figure 25: Rope/Rescue Training

4.4 FAR Part 139 Training

These two areas provide 1,920 sf to support employee training and certification requirements for airport operations.

4.4.1 Driver Simulation

A training room will be provided for airport driving simulators that are used to support the airport's ground vehicle driving program (see **Figure 26** as an example). Simulators are used to train, evaluate, and refresh all airport drivers and emergency vehicle operators in the appropriate handling of sophisticated ground vehicles, snow removal equipment, firefighting apparatus, as well as driver familiarization of the airfield configuration and rules of the road. The airport driving simulation room is located along the exterior wall in the northwest corner of the building. Double doors with access to a loading zone are provided to facilitate moving large pieces of equipment into and out of the simulation room.

Figure 26: Airport Driving Simulator

4.4.2 Workshop (Airfield Electrical)

A workshop/training lab will be provided to support the training requirements for airport maintenance personnel including but not limited to the airport's lighting maintenance program (see **Figure 27** as an example). Airfield lighting maintenance covers all aspects on how to site, maintain, test, install, and calibrate airfield lights and related equipment such as regulators, switch gear, cabling, etc.

Figure 27: Airfield Lighting Maintenance/Training Room

4.5 Emergency Operations Center (EOC)

The EOC is a designated location that is designed and equipped to support the incident commander and first responders at the scene of an aircraft accident or airport incident. The EOC is the primary command and control facility responsible for managing the activities, deploying the resources needed, ensuring the continuity

of airport operations, managing the press and communications, and generally implementing the airport's emergency plan.

The EOC is also used for incident command training for an airport emergency. This allows ARFF personnel, police, security, air traffic control, dispatch, Transportation Security Administration, emergency medical services, local safety authorities, public safety and other airport operations to train together, ensuring complete continuity across all agencies and striving for the best possible outcome.

As shown on the Building Layout Plan, the EOC is centrally located in the middle of the ARFF training building. The 3,465 sf area consists of sub-dividable flex training space with movable acoustic partitions. There are two large training rooms with seating for 50 to 75 people each and a smaller training room with seating for another 20 people. When the two large rooms are combined, this area provides 2,820 square feet of open space with tables and chairs that can be configured as needed to accommodate the agencies involved (see **Figure 28** as an example). The adjacent smaller room includes a policy table for the command staff, and the adjacent MAA training rooms can be used for policy breakout rooms.

Equipment at the EOC includes the following:

- Communications equipment including telephones, fax machines, and access to any radio or communications systems used by the airport
- Computers and printers/scanners with access to internet and network resources
- Information gathering and display tools including access to broadcast radio and television, TV monitors, projection screens, and even simple white boards or flipcharts (easel and markers) to compile and display information in a collaborative manner
- Hard copies of emergency response, business continuity and crisis communications plans, contact/telephone lists, resource inventory and diagrams of facilities and systems, as well as current aerial images and layout plans
- Office supplies including notepads, business and incident management forms, pens, pencils, markers and other appropriate supplies
- Food, water and dining utensils available within close proximity for EOC staff, as they may be there for extended periods

Because the EOC is used only in the event of an emergency and training for such emergencies, this space can be designed to support other MAA and/or ARFF training functions on an as-needed basis.

Figure 28: EOC/Large Training Room

4.6 MAA Employee Training

The MAA employee training areas are located on the north side of the building with the main entrance and reception area situated in the northeast corner. This area consists of 6,255 square feet (sf) and is served by an east-west corridor that runs the length of the building. The functional areas include:

- **Tech Training/Computer Training (800 sf)** – one (1) standard 25 person technical training classroom with fixed tables, computer workstations and an overhead projector
- **Training Rooms (1,245 sf)** – two (2) standard 20-25 person meeting/training rooms
- **Admin/Office Areas (600 sf)** – personal workspaces for the Director, training staff and personnel
- **Equipment Storage (260 sf)** – storage space and shelves for safekeeping computers, AV equipment, office equipment and supplies
- **Furniture Storage (340 sf)** – storage space for table, chairs, and furniture to allow flexible use of the EOC and MAA training rooms
- **Kitchen/Catering Staging (400 sf)** – preparation area for food service/catering and an exterior door for deliveries

Additional support spaces include restrooms, coat closet, entry/vestibule, and the east-west corridor.

4.7 Building Support

There is also 850 sf for building services including:

- **Electrical Room (375 sf)** – a utility room for electric switchboards, distribution boards, circuit breakers, fire alarm control panels, telephone equipment, etc.
- **Mechanical Room (375 sf)** – a utility room for HVAC control panels, plumbing and gas main distribution and valves, water heater, sprinkler controls, etc.
- **IT (100 sf)** – air conditioned space devoted to the continuous operation of computer servers and connectivity to the airport's IT network

4.8 Design Narrative

4.8.1 Exterior

The training building is proposed as a conventional steel column frame on a reinforced concrete foundation with steel roof bar joists with metal roof decking, rigid insulation and single ply roofing. Exterior walls would be a combination of interior insulated concrete block and steel metal framing with insulated metal panels for the exterior cladding. Glazing for windows would be thermal and sound insulated glazing in aluminum framing. Main building entries would be aluminum storefront glazing systems, and the exterior service doors would be hollow metal doors and frames. The ARFF vehicle storage bays would have four overhead doors with tempered glazing.

Most of the building would be a lower bay arrangement with a roof height of 20 feet tall with interior clear height of 16 feet and then 9 foot suspended ceilings or 12 foot suspended ceilings or open ceilings to the roof bar joists depending on the space and its function.

The vehicle storage would be a higher bay of with a roof height of twenty-five feet with an interior clear height of twenty feet with an open ceiling to roof bar joists. This would accommodate the vertical training loft heights and provide a higher bay for the workshop.

4.8.2 Interior

Interior finishes for walls would be a combination of painted concrete block, glazed concrete block, and drywall depending on the functional use. The ARFF training operations will be generally concrete block and the ARFF support areas will be generally metal studs and drywall partitions. Interior finishes for ceilings will be acoustic suspended tile at the training rooms and administration areas. ARFF support areas will have either drywall ceilings or exposed ceiling construction depending on the function. The vehicle storage area will have exposed ceiling construction. Partition heights surrounding training rooms will be full height to the bottom of the roof deck with sound insulation in the walls as required.

Flooring at the ARFF training rooms, support and administration areas will be ceramic tile, vinyl tile, epoxy flooring, or sealed concrete depending on the use. Flooring in the training rooms will be high traffic carpet with ceramic tile at the toilets and kitchen pantry.

4.8.3 Building Systems and Utilities

The building will be conditioned with packaged roof top units (gas-fired heating and electric cooling). Additional ventilation will be provided at the ARFF training restroom/shower areas. The vehicle storage area would be provided with heating and ventilation via roof hung gas-fired unit heaters. Ventilation fans and louvers would be provided for cooling in the summer with sensors for detecting fuel vapors to trigger ventilation fans.

Electrical power and lighting will be provided to the building by single service entry point at the electrical room and required transformer. The electrical voltages supplied will be based on the differing requirements of the equipment used and functional spaces. Lay-in and surface mounted LED lighting will be used for support spaces with ceilings and exposed ceiling construction. High

bay LED lighting fixtures will be used for the vehicle storage area. Exterior LED lighting will be provided as required on the building elevations around the perimeter with focus on building entry doors and overhead doors entries. Lightning protection will be provided at the roof tops with earth grounding. A generator will be provided for the facility for life safety electrical support and in order to support EOC operations in the event of a power outage.

Low voltage systems such as data, telecommunications, airport communications, security, access controls and security alarm system are all anticipated. The training rooms will be outfitted with audiovisual systems and associated data connectivity. Controls for the aircraft burn pit technology will be located in the base of the control tower.

Domestic water supply including fire sprinkler water will enter the building at the mechanical room as well as the natural gas service. Domestic hot water heating will utilize a central gas-fired circulating loop hot water heater. Exterior frost proof hose bibs will be provided at exterior building wall locations for general service.

The sanitary drains for toilets, sinks and showers can be separated from the sanitary drains (industrial waste) serving floor drains in the vehicle storage area, which will be run through an oil-water separator.

The building is anticipated to have a wet sprinkler system throughout with zoning of the sprinkler areas based on use and fire hazard. Dry pipe systems may be provided near overhead doors at the vehicle storage area where the chance of long door-open periods is anticipated during winter conditions. A fire alarm system will be integrated with the fire protection system. A fire pump is anticipated for the overall fire protection sprinkler system, with connection to the emergency generator.

4.8.4 Codes and Standards

The ARFF Training Facility including the building and the site (i.e., parking, etc.) will be designed to comply with the American With Disabilities Act of 1990 so that it is readily accessible to and usable by individuals with disabilities.

Other applicable codes and standards include, but may not be limited to, the following:

- IBC International Building Code (IBC)
- NFPA – 1 Fire Code
- NFPA – 101 Life Safety Code
- NFPA Standard 1402: Design and Construction of Facilities for Fire Training

5 IMPLEMENTATION

This section provides information about the development costs and the time required to deliver the project.

5.1 Cost Estimate

A rough order of magnitude (ROM) cost estimate is provided to facilitate budgetary and feasibility determinations at the earliest phase of the process (0 to 2 percent design). The MAA's standard form for cost estimating was used to develop the estimate. A copy of the estimate is included in **Appendix C** and is summarized in **Table 1**.

5.1.1 Methodology

Cost estimates were developed on the basis of the type and size of the fire training facility, the classroom training building, preliminary earthwork and paving quantities, distances for trenching and installation of utilities, and allowances for accessory structures. Temporary construction items, mobilization, and a miscellaneous construction allowance are included as a percentage of the estimated construction cost. Due to the preliminary stage of the project design at the time of estimating, a 30% contingency has been added to the cost estimate. Non-construction items include fees paid by the MAA for professional services such as engineering, architecture, project management, inspection, and other expenses not normally included in the builder's construction cost. A design fee contingency is also included to cover design variations resulting from conditions uncovered during the design process.

5.1.2 Inclusions, Exclusions and Assumptions

Pricing for the utilities includes proposed connections to existing electric service and gas and water mains along Aviation Boulevard, a tie-in to the airport's sanitary sewer line near the ARFF station, and a connection to the airport's fiber optic network near the MAC building. No additional upstream infrastructure improvements are anticipated to accommodate the project.[15]

Prior to construction, the project site will be removed from the AOA to the extent practicable using either temporary fencing or permanent installation of the relocated AOA fence. This approach facilitates contractor operations while reducing security requirements and associated costs for working on the secure side of the airfield.

[15] The cost included for sanitary sewer would be reduced substantially if the ARFF training facility can be connected to the County's sewer main that runs along Aviation Boulevard.

Table 1: ROM Cost Estimates

Items	Estimated Costs	
ARFF Training Facility		
Aircraft Mockup (SAFT/Props/propane)	$	5,500,000
Fuel Spill Burn Area (Jet Fuel Only)	$	3,800,000
Fuel Spill Burn Area (Add Propane Option)	$	1,000,000
Fuel Facilities	$	650,000
Wastewater Storage Tank	$	750,000
Wastewater Treatment Plant	$	650,000
Water Storage Tanks	$	560,000
Underground Services	$	850,000
SAFT Installation & System Commissioning	$	1,200,000
Burn Building (RIFB)	$	1,600,000
Floodlighting	$	400,000
Auxilliary/Standby Power	$	350,000
Allowance: Training Props	$	450,000
Allowance: Environmental Controls	$	250,000
Subtotal	*$*	*18,010,000*
Classroom Building		
ARFF Training Space (incl Admin+Cntrl Twr) (14,005 sf)	$	2,815,000
MAA Employee Training Space (11,640 sf)	$	2,228,000
Building Support (750 sf)	$	128,000
Allowance: Furniture, Fixures, Equipment	$	1,575,000
Subtotal	*$*	*6,746,000*
Land/Site Development		
Subtotal	*$*	*12,661,800*
SUBTOTAL CONSTRUCTION COST	**$**	**37,417,800**
Special Systems: Card Attachment Secure System	$	325,000
Temporary Construction Items	$	754,856
Mobilization	$	769,953
Planning Contingency	$	11,780,283
Construction Security Plan	$	510,479
Construction Quality Control Plan	$	1,706,066
Miscellaneous Construction Allowance	$	5,310,512
TOTAL CONSTRUCTION COST	**$**	**58,574,949**
Additional Program Costs	$	13,179,364
TOTAL CAPITAL PROGRAM COST ESTIMATE	**$**	**71,754,313**
GRAND TOTAL	**$**	**71,800,000**

Pricing for fixed equipment associated with the live fire training system(s) is based on historic data from recently completed comparable projects at other airports. The cost estimate assumes a competitively selected vendor or list of vendors will manufacture the specified equipment, assist with the design and installation, assist with commissioning and start-up, and provide on-site training to ARFF personnel for a limited time.

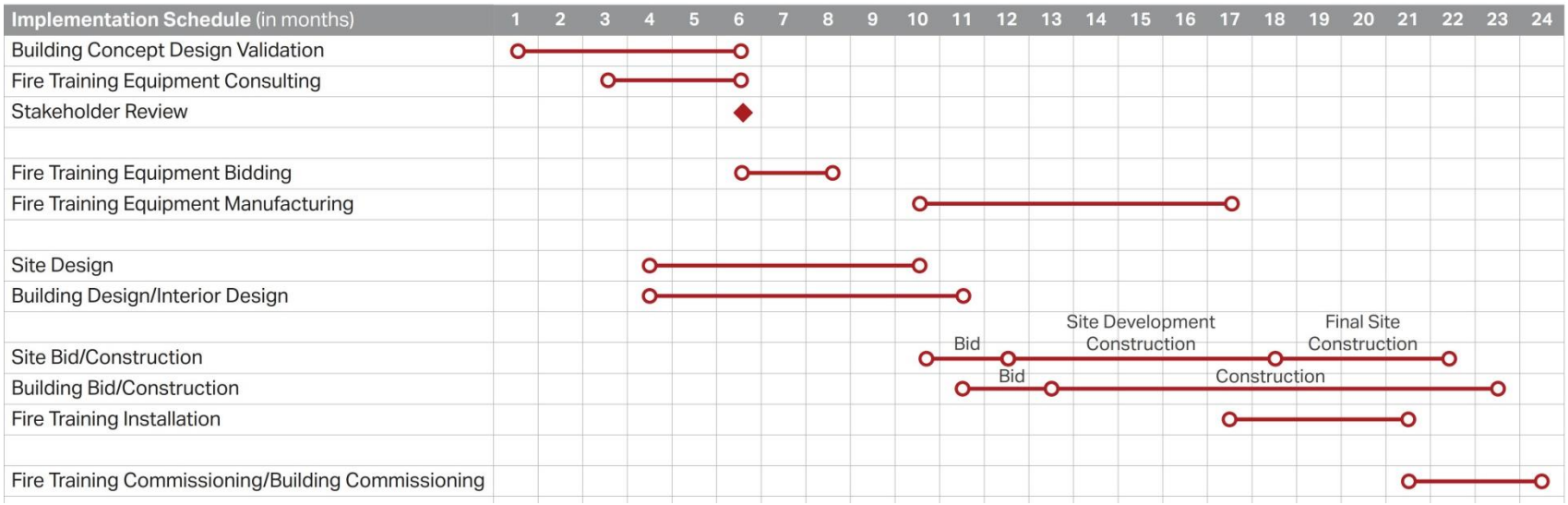
Space allowance for an aircraft rescue trainer is provided in the Site Layout Plan (see **Section 3**) but there is no allowance for new or different equipment in the cost estimate at this time assuming BWI Marshall will continue to utilize the existing DC-10 trainer located in the Gold Lot until further notice.

5.2 Schedule

The project is expected to take approximately one year to design and one year to construct for a two-year total project schedule. As shown in **Figure 29**, a 24-month project schedule has been developed to identify each step in the process and to approximate the time required to complete each step. Key factors to consider early in the process are:

- Allowance for concept design validation prior to starting preliminary engineering/design
- Allowance for an ARFF consultant to help specify the fire training facilities
- Allowance for environmental due diligence, agency coordination and permit pre-applications
- Lead time for manufacturing the fire training equipment
- Lead time for manufacturing the wastewater treatment system
- Allowance for the bidding process(es)

Figure 29: Project Schedule



5.3 Federal Funding Eligibility

It is understood that the proposed training facility will continue to support the ARFF training needs of several other airports and organizations within the region and that it would satisfy the FAA criteria for a Regional ARFF training facility. As such, it is anticipated that FAA eligible elements of the facility would be funded under the Airport Improvement Program (AIP) and/or Passenger Facility Charge (PFC) programs. Based on the current AIP Handbook[16], it is assumed that project elements directly supporting ARFF training activities, and the associated pro-rata share of site development costs, would be eligible for funding support as identified in **Table 2**.

The facilities and project elements associated with the EOC, and training for Part 139 compliance and operations staff, would likely not be eligible for funding. Further coordination with the FAA Washington Airports District Office, during preliminary design, will be needed to confirm funding eligibility levels.

Based on the above information, it is estimated that up to approximately 77% of total project costs would be eligible for FAA funding as identified in **Table 3.**

[16] FAA Order 5100.38D, Airport Improvement Program Handbook, 9/30/14

5.4 Considerations for Preliminary Design

As the ARFF Training Facility project moves forward, the following information should be considered when planning, scoping and budgeting for 30 percent design.

- **FAA Funding Eligibility.** In order to be designated and funded as a "regional" training facility, the project will need to be coordinated with the FAA's Part 139 inspector and the Washington Airports District Office (ADO). There are other regional ARFF training facilities in the Eastern Region; however, BWI Marshall is the only facility in the region that offers ARFF training using jet fuel and foaming agents, and there are other airport fire departments in the region that depend on BWI Marshall for this type of training.

- **Burn Area Structure**. FAA guidelines for ARFF training facilities require the aircraft mock-up to be located within the burn area structure and the proposed layout for the live-fire training area complies with this requirement. However, industry reports suggests that the intense heat associated with jet fuel burn activities (repeated thermal cycling stresses) could accelerate depreciation of the newer, more sophisticated, propane-equipped Specialized Aircraft Fire Trainers. The design team should consult with an ARFF training facility engineer and/or SAFT manufacturers to determine if the jet fuel burn pit should be integrated with (or located separate from) the propane-fired burn area and SAFT.

Table 2: Federal Funding Eligibility

Project Component	Assumed to be FAA Funding Eligible (e.g. items directly supporting ARFF training)	Assumed ineligible for FAA Funding (e.g. items supporting EOC, and MAA Part 139 and operational training)
Site Development	• Pro-rata share of utilities • Pro-rata share of environmental protection • Pro-rata share of site work and grading	• Pro-rata share of utilities • Pro-rata share of environmental protection • Pro-rata share of site work and grading
Site Features	• Pro-rata share of automobile parking • Burn area • Maneuvering area • Fencing • Access road • All ARFF training props (such as aircraft mock-up, RIFB, and other training props) & supporting pavement • Fuel storage	• Pro-rata share of automobile parking
Classroom Building	• Control center/tower • Vehicle bay(s) • Classrooms • Showers and lockers	• Flex space for EOC, meetings, and classrooms • MAA administrative offices and storage areas

Table 3: AIP Eligible Costs

	Site Development	Site Features: ARFF Training	Classroom Building		Total
			ARFF Training	MAA, EOC, & Part 139 Training	
Design[1]	$ 2,259,806	$ 3,214,322	$ 683,378	$ 578,614	$ 6,736,119
Other Program Costs[2]	$ 2,161,553	$ 3,074,569	$ 653,666	$ 553,457	$ 6,443,244
Construction[3]	$ 19,650,484	$ 27,950,625	$ 5,942,418	$ 5,031,423	$ 58,574,949
Total	**$ 24,071,843**	**$ 34,239,515**	**$ 7,279,462**	**$ 6,163,493**	**$ 71,754,313**
% AIP Eligible	75%	100%	46%	0%	±77% eligible
Total AIP Eligible	**$ 18,053,882**	**$ 34,239,515**	**$ 3,348,552**	**$ 0**	**$ 55,641,950**

1 - Includes estimated design fees and design contingencies.
2 - Includes PM and CMI Fees.
3 - Includes raw construction costs plus MAA Items A-F.

- **Use of Propane vs Natural Gas as a Fuel Source.** For planning and discussion purposes, the PDD assumes the use of propane (liquefied petroleum gas or LPG) as a fuel source for the burn area structure and SAFT. However, natural gas is a feasible alternative to using propane. A conversion kit would be needed including a compressor/regulator to achieve the specified pressure in the gas line. At the time of this study, the cost of natural gas is approximately one-third that of propane so there is potential for cost savings. Also, it is assumed that natural gas can be supplied by BG&E using the same main line that will serve the ARFF training building.

- **Utilities Analysis.** Existing utility mains identified on the plans are based on existing published information. Consultation with local service providers will be needed to verify the location, availability, and demand/capacity for electricity, natural gas, potable water, and sanitary sewer as needed to support the project. A street address is required to initiate consultation with BG&E.

- **EOC Communications.** A primary communications line is provided and is located between the ARFF training facility and MAC building. If the EOC is relocated to the ARFF training facility, a second/ backup communications line may be needed for redundancy.

- **Sanitary Sewer Option.** The PDD assumes that a sanitary sewer line from the ARFF training facility will be connected to the airport's sanitary sewer line, the bulk of which flows to a Baltimore City Water Treatment Plant. As a capital cost savings measure, it is recommended that MAA representatives consult with Anne Arundel County Department of Public Works to determine if there is an option available that could connect the project to the County's sanitary sewer main near Cromwell Park Drive instead.

- **Airspace Analysis.** The preliminary concept presented in the 2013 site selection study and depicted on the current approved ALP has been reviewed and approved by the FAA. The updated concept presented in this PDD has not been submitted to the FAA for reevaluation. The final concept plan must be submitted to the FAA for review and comment early in the design process, and the final design plan must be submitted for review and approval prior to the start of construction.

- **Environmental Assessment (NEPA).** The preliminary concept presented in the 2013 site selection study and depicted in the Preliminary Final Environmental Assessment (February 18, 2018) has been reviewed by the FAA and no significant adverse impacts are anticipated. The updated concept presented in this PDD has a larger footprint and includes additional uses that were not considered in earlier concepts, and this plan is still subject to change during preliminary design. Therefore, the final concept plan will need to be submitted to the FAA for re-evaluation and an environmental finding.

- **Traffic Analysis.** An ARFF training facility was included in the traffic analysis prepared for the Preliminary Final Environmental Assessment (February 18, 2018) but the project definition has since changed including increased traffic volumes and improvements to the intersection at Aviation Boulevard and Cromwell Park Drive. A new traffic impact analysis will need to be prepared in consultation with the State Highway Administration.

- **Environmental Compliance (Permit Feasibility).** The MAA Office of Environmental Compliance has identified several issues and concerns including the continued use of jet fuel and AFFF agents for ARFF training exercises. Early in the design process, there should be allowance for an environmental permitting/compliance review to consult with the permitting agencies, to assess the permit load, and to identify mitigation requirements for design (e.g., stormwater management, groundwater protection/monitoring, etc.).

- **Stormwater Management.** The MAA has a campus wide need to address the new TDML requirements associated with the Municipal Separate Storm Sewer System (MS4) permit that may necessitate developing greater stormwater capacity than the minimum required by local code or typical design standards. A preliminary review of the Site Layout Plan indicates that it may be possible to design stormwater features to provide additional water quality volume, and the excess volume can be counted towards Chesapeake Bay TDML goals. Planning level stormwater volumes and potential TMDL credits should be computed early in the process as input to the preliminary grading, drainage and stormwater management plans.

- **Wastewater Treatment.** The MAA currently operates under a wastewater pretreatment permit with Baltimore County Department of Public Works. This permit has maximum allowable discharge values for constituents such as biological oxygen demand, metals, and total suspended solids. At the beginning of the design phase for this project, a focused study should be performed in which fire training pit wastewater is sampled and existing MAA permits are reviewed. This initial step will ensure the proposed air sparging hydrocyclone technology will provide sufficient treatment in this particular case.

- **Wellhead Protection.** The project site is located within a wellhead protection area identified in the Anne Arundel County Wellhead Protection Plan (see Section 2.3.5). Although there is no formal overly zoning ordinance in place at this time, given the proposed use and storage of hazardous materials that are required to operate the ARFF training facility, further investigation and coordination with the County will be needed to determine what conditions may apply to obtain approval for the project in this location.

- **Preliminary Design Specifications.** The Site Layout Plan is conceptual, the fire training pit has not been designed, and systems specifications vary by manufacturer. Concept design and validation are recommended as the first steps in the preliminary engineering process. Three items of interest are: (1) locating nozzles for both natural gas and Jet A near the center of the fire pit to minimize overspray during fire training events, (2) determining acceptable pump flow rates to drain and refill the burn pit water between fire training events, and (3) specifications for above-ground fuel storage tanks to prevent freezing.

- **Required Permits, Approvals and Coordination.** The list includes, but is not necessarily limited to, the following:
  - Wetlands/Waterways permit (MDE & Army Corps of Engineers)
    - Potential for encroachment on surface water resources; stormwater management planning should including opportunities to obtain Chesapeake Bay TDML credits
  - Wastewater Pretreatment Permit (Baltimore County Department of Public Works)
    - Wastewater water from the burn pit and the surrounding vehicle maneuvering area
  - Erosion & Sediment Control/Storm water Management (MDE)
    - Approximately 27 acres of disturbance
  - Forest Conservation (DNR)
    - Approximately 21 acres of tree clearing and removal
  - Wastewater permits/ agreements (Baltimore County DPW and MAA)
    - Includes sanitary discharge from the training building and an industrial discharge from the wastewater treatment system
  - Airport Quality Permit to Construct
    - Permit Change to Title V Air Quality Permit (MDE)
  - Electric Service (Anne Arundel County & BGE)
  - Natural Gas Service (Anne Arundel County & BGE)
  - Land Use Compatibility (Anne Arundel County)
    - Project is located in an aquifer recharge area
  - Fuel tank installation and monitoring (MDE)
    - Aboveground storage tanks are recommended
  - Access Permit & Traffic Analysis (SHA)
    - A new intersection is proposed
  - NPDES Construction Activity Stormwater Discharge General Permit (MDE)
    - No industrial discharges are proposed

Appendix A: MAA Training Facility Survey Process

Survey Results:

Summary

- Offices/stakeholders with training **space deficiencies are clearly identified**

- **Spaces** currently used for training are **clearly identified**.

- Many offices schedule training wherever there is a room to accommodate the size of their group, however in many cases the **technology or set-up does not suit needs**.

- Often times using conference rooms so they are **competing with various offices** that need to schedule meetings, some mentioned being "kicked out" for other meetings that take priority.

- Terminal C7 EOC mentioned as a common area to schedule training; this is a **badged entry** so not everyone is able to get there.

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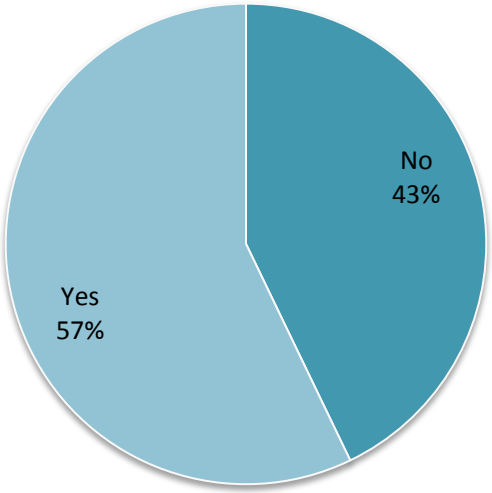
Survey Results

Stakeholders

Stakeholders Identified

1. Organizational Development
2. Information Technology
3. Airport Security
4. Airport Operations
5. MTN State
6. Passenger Development Services has identified a future deficiency in comments

Q6: Currently, do you feel that there is a deficiency or lack of necessary training space within your division?



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Survey Results

Existing Training Space

Location	Existing Training/Conference Room SF
991 Corporate Blvd.	Assembly Rooms A & B – 800 SF each: **1,600 SF Total**
Kauffman Bldg.	Training Rooms A & B 300 SF each: **600 SF Total**
ARFF Facility	EOC Conference Room: 770 SF Dining Area & TV Day Room: 1,800 SF Mezzanine Level (Practical Training): 1,620 SF **4,190 SF Total**
MAC Bldg.	Potomac River Room 181E/F: **3,500 SF**
Terminal Bldg.	MAA BWI Assembly Rooms A & B 500 SF each: 1,000 SF HR Training Room: 1,450 SF **2,450 SF Total**
MTN State	Hangar 4 Training Room: 1,560 SF In Process: Convert Rooms 416/418 to conference room: 1,145 SF Convert Room 420 to Computer Lab: 730 SF **3,435 SF Total**
Total:	**15,775 SF**

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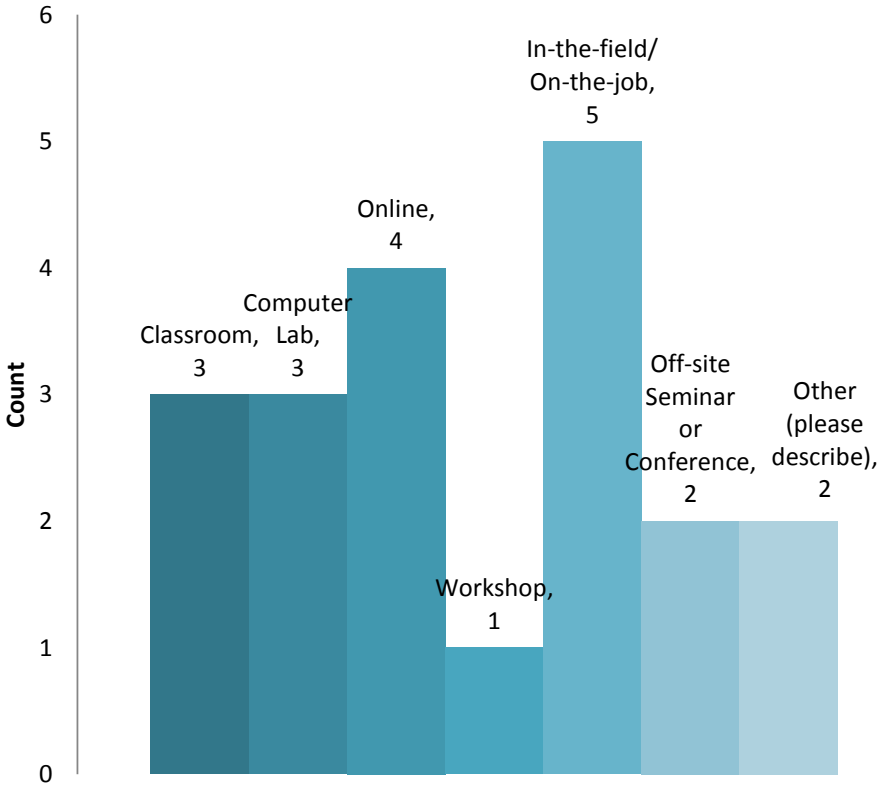
Survey Results

Technology/Set-Up

Q3: What is the format of the training session(s)? Select any/all that apply.



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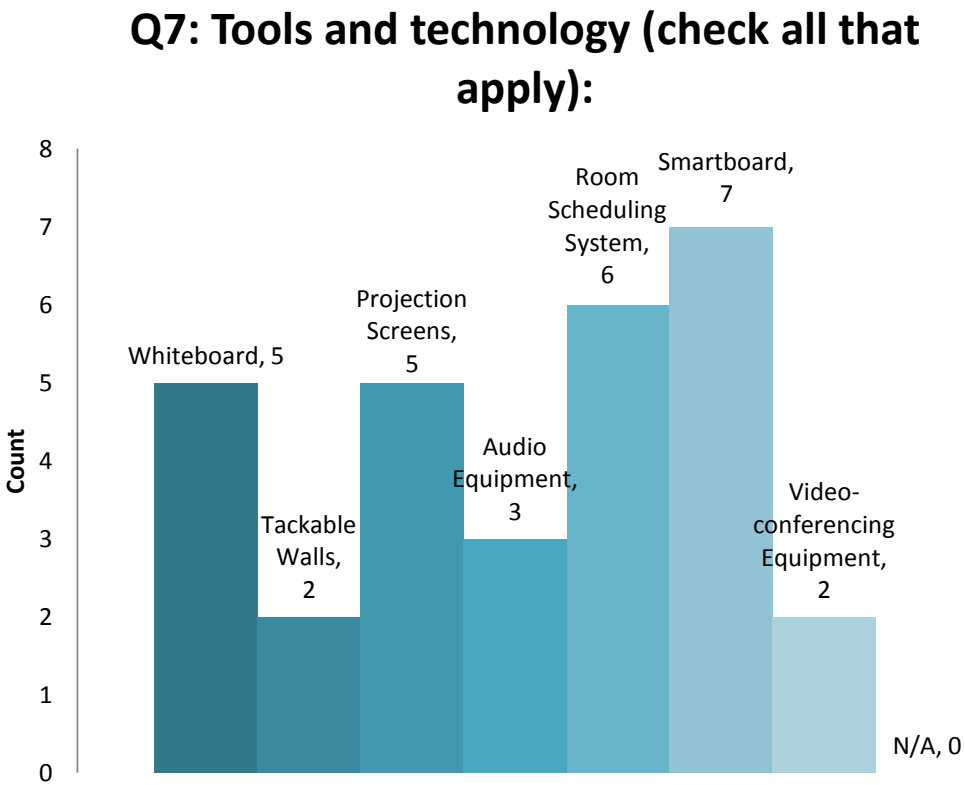
Survey Results

Technology/Set-Up

HR Training Room: 1,450 SF

Kauffman Training Room B: 300SF



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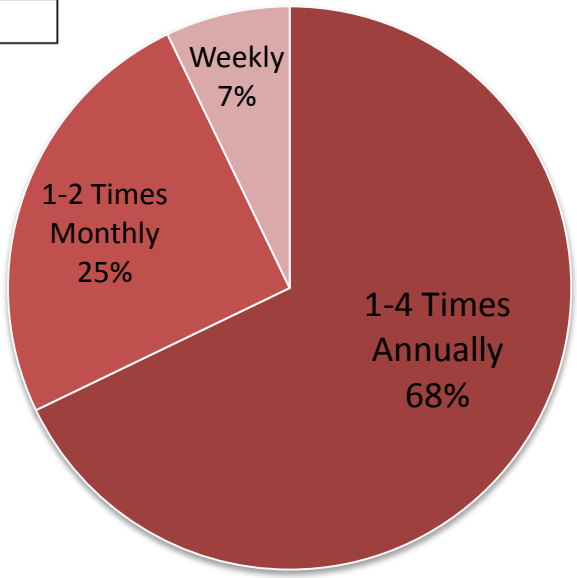
Survey Results

Frequency:

Size (Number of People)	Total Count	1-4 Times Annually	1-2 Times Monthly	Weekly
1 to 10 People	9	5	2	2
11 to 25 People	12	7	5	0
26 to 50 People	3	3	0	0
50+ People	4	4	0	0
Total Count	28	19	7	2

Training Frequency



Current Frequency vs. Need:

Data for all MAA Offices

- 68% of all training sessions are held 1-4 times annually

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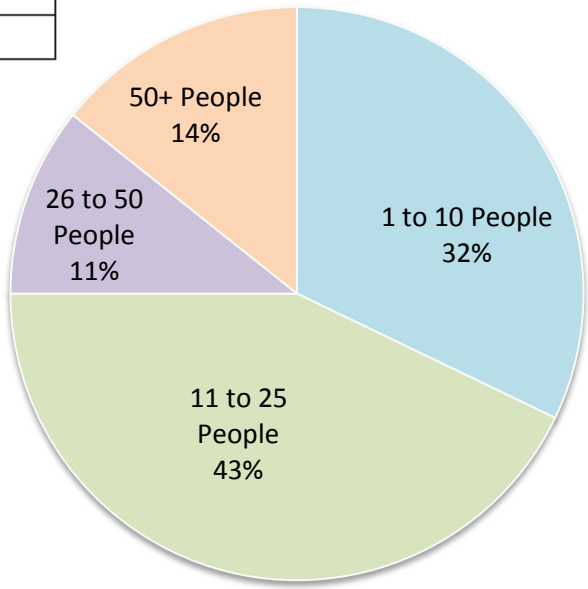
Survey Results

Capacity:

Size (Number of People)	Total Count	1-4 Times Annually	1-2 Times Monthly	Weekly
1 to 10 People	9	5	2	2
11 to 25 People	12	7	5	0
26 to 50 People	3	3	0	0
50+ People	4	4	0	0
Total Count	28	19	7	2

Training Group Size



Current Capacity vs. Need:

Data for all MAA Offices

- 75% of all training group sizes are between 1-25 people

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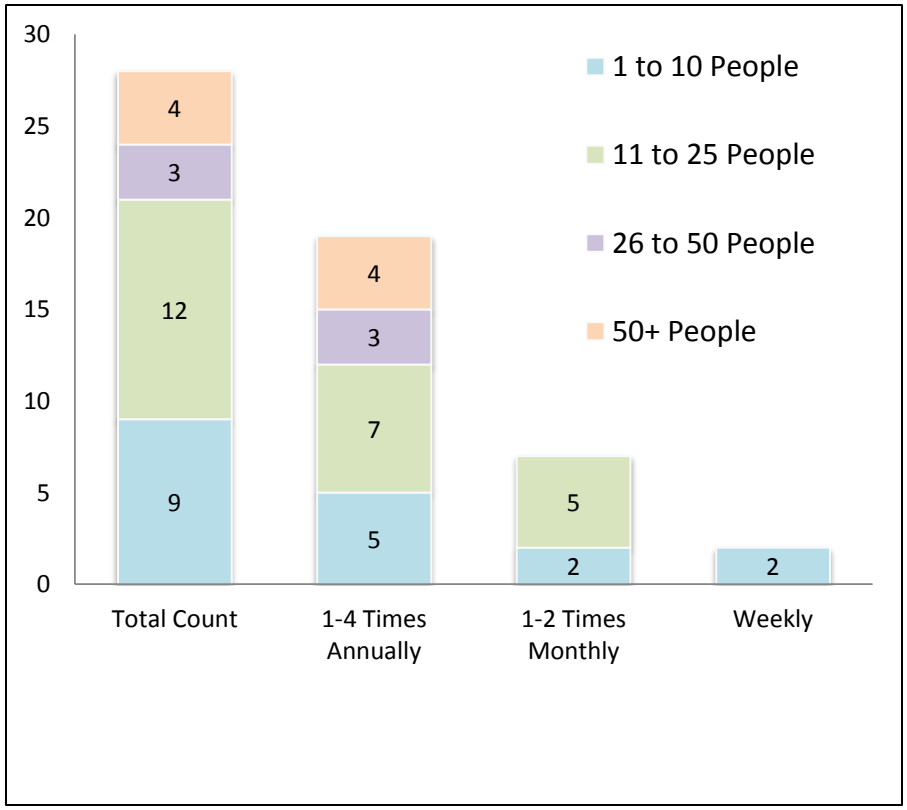
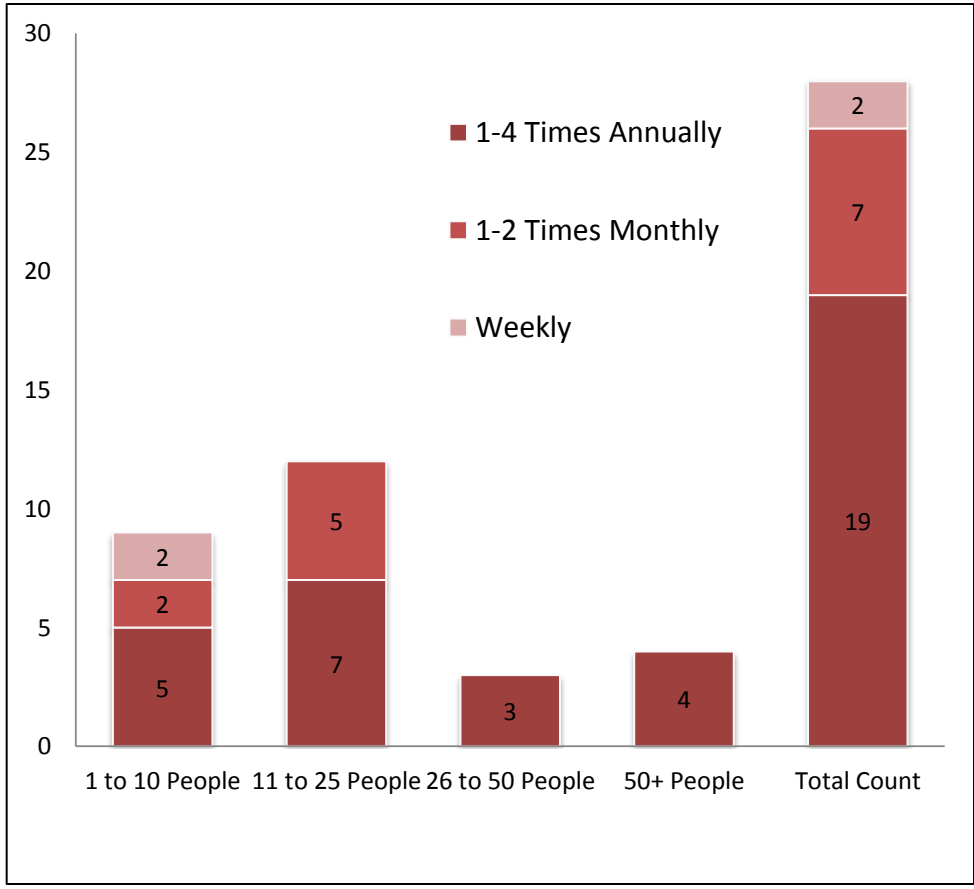
Survey Results

Capacity/Frequency:





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BWI BALTIMORE/WASHINGTON INTERNATIONAL Thurgood Marshall AIRPORT

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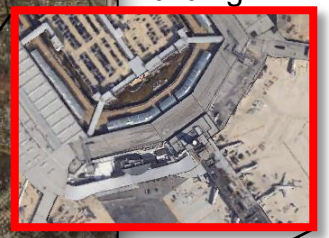
MARTIN STATE AIRPORT

MAA Office Locations

Current Conference/Training Space

991 Corporate Blvd.
1,600 SF

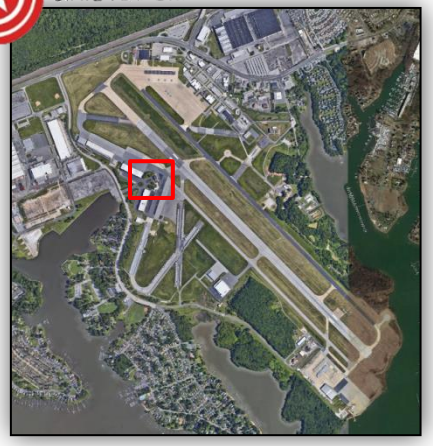
Terminal Building



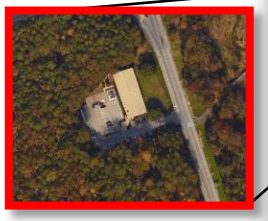
2,450 SF

MARTIN STATE AIRPORT

3,435 SF



600 SF



Kauffman Building

MAC Building

3,500 SF

Future Planned Location: Fire Training / MAA Training Facility

ARFF Facility

4,190 SF

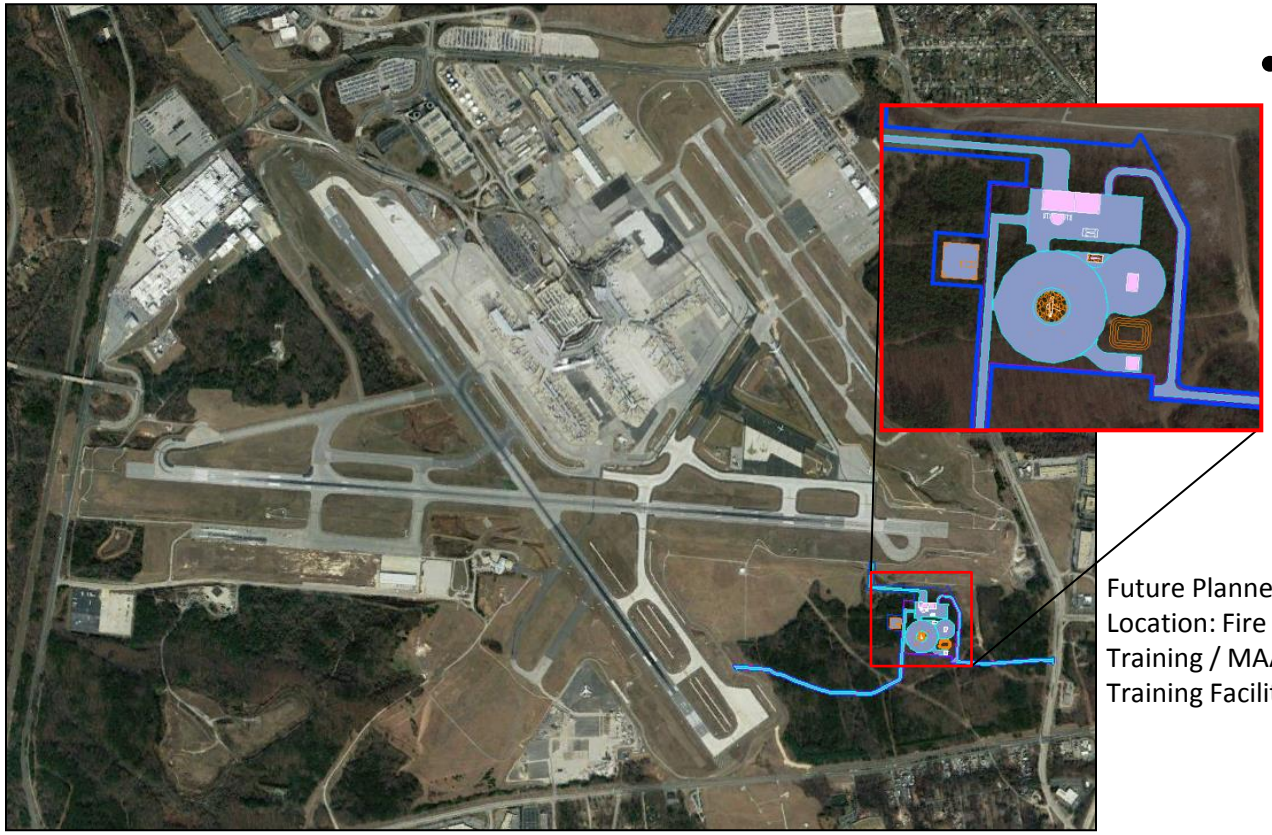
BWI BALTIMORE/WASHINGTON INTERNATIONAL Thurgood Marshall AIRPORT

'be better'

MARTIN STATE AIRPORT

Discussion Questions

Site Location:



- Site location: Off Aviation Blvd near Cromwell Park Dr
  - Would you make use of this facility based on its location?
  - Operations and Airport Security: Can you leave the terminal to train?
  - Badged entry necessary?

Discussion Questions

Programming:

- Feedback regarding set-up
  - What is missing from current facilities?
    - Computer lab style, classroom style, describe needs that are currently unavailable
- Flexibility regarding sizing
  - Private space for small groups
  - Most frequent use is for groups of 25 people and under
  - Retreat size (annually to a few times per year)
    - Would this be worth the cost of constructing? Rent it out when not in use?
    - MAC Potomac River room underutilized?

Appendix B: Spatial Program

Task 5731 - MAA Training Facility Project Definition Document
Spatial Program - June 2018

Development Element		Program Description
Site Element		
Air Field Fence		Airfield AOA fence with security gate appropriate to connection between ARFF training facility, ARFF station and airfield activities related to the ARFF training facilities - see Site Plan
Perimeter Fence		ARFF training facility security fence appropriate to enclosing the ARFF training facility, connecting to the landside and connecting to airfield AOA fence; gated provided at connection to public / landside road
General Parking		Parking spaces per site plan
Aircraft Burn Pit Area		Reinforced concrete basin with radius of 63 Feet inner ring and 75 Feet outer ring per FAA Advisory Circular 150/5220-17B with an Airport Index E
Maneuvering Area for Burn Pit		Outer ring of Aircraft Burn Pit Area
Maneuvering Area for Building Burn Prop		Paved with appropriate loading for ARFF vehicles
Flash Over Simulator Area		Area surrounding prop
Confined Space Training Area		Area surrounding prop
Vehicle Dissembly Area (Extrication)		Requires drain to oil waste separator
Waste Treatment Area		For waste treatment tank and oil separator as part of the system
Connecting Road to Public Roads		Asphalt paved, 30 foot wide road
Improvement Elements		
Fuel Tank Storage Area - Liquid Fuel		Above grade fuel storage tanks
Fuel Tank Storage Area - Propane		Above grade fuel storage tanks
Water Tank - Waste		Drain from burn pit to waste holding tank - connect to waste treatment area
Water Tank - Recycled Water		Drain from waste treatment to recycled water holding tank, supply back to fire pit basin for filling or discharge to sanitary
Water Tank - Potable Water		General purpose use
Water Hydrants		For site fire fighting purposes and refilling tanker/ firefighting vehicles
Aircraft Mock-Up Model		Training prop 75 feet long with 30 foot wingspan with the following scenarios: Ground Fuel Spill, Engine Nacelle Fire, Hot Brake/Wheel Fire, 3D Running Fuel Fire, Passenger Compartment, Flight Deck, Cargo Compartment (FAA scenario listing) plus ventilation systems and compressed air for tire explosion simulation. Requires water supply for sprinkler cooling the prop.
Realistic Interior Fire Building (RIFB)		Two story, concrete wall, concrete floor and metal roof with metal stairs and rail accessory; capable of handling live wood pallet fire conditions Class A fire
Flashover Prop		
Confined Space Prop		
Rehab Area		Covered Pavilion - benches, fan/misters, drinking water
Storage Area		Breathing apparatus - no air conditioning required
Fire Extinguisher Training		Small prop use with propane - with waste drain area
Control Tower	See Below	Two story with stair and lift; 20 feet tall

Task 5731 - MAA Training Facility Project Definition Document
Spatial Program - June 2018

MAA Regional Training Facility	Square Feet	Program Description
Emergency Operations Center		
Flex Training Room 1	1,410	1350sf subdivision of total - 30x45
Seating (Training) - 45		
Seating (Chairs) - 77		
Seating (Banquet) - 36		
Flex Training Room 2	1,410	1350sf subdivision of total - 30x45
Seating (Training) - 45		
Seating (Chairs) - 77		
Seating (Banquet) - 36		
Training 2	645	20 Person Training
Circulation	-	
TOTAL	**3,465**	
Building Services		
Electrical	375	
Mechanical	375	Includes Sprinkler System and Air Compressor
IT	100	
Circulation	-	
TOTAL	**850**	
MAA Training		
Tech Training / Computer Training	690	Semi-fixed training table arrangement for 25 persons
Storage	110	
Training 1	645	20 Person Training
Training 2	600	20 Person Training
Coat Closet	100	
Admin Area / Offices	600	
RR Men	200	
RR Women	200	
Equipment Storage	260	
Furniture Storage	340	
Kitchen / Caterer Staging	400	
Circulation	**2,110**	
TOTAL	**6,255**	
Part 139 Training		
Drive Simulator	860	
Workshop	1,060	
Circulation	-	
TOTAL	**1,920**	

Task 5731 - MAA Training Facility Project Definition Document
Spatial Program - June 2018

ARFF Training		
Control Tower	355	Two story with stair and lift; 20 feet tall
Trainee Storage	375	
Sleeping Dorm	220	Four positions for two level bunks - 8 beds
Workout / Physical Training	300	
Laundry	100	
Admin Area	225	Open work area with two cubicles
Private Office 1	100	
Private Office 2	100	
Private Office 3	100	
Private Office 4	100	
Kitchen / Break Room	450	
Emergency Medical Storage	135	
Restroom / Locker Room (M)	437.5	
Restroom / Locker Room (F)	437.5	
Model Trainer Storage	1,000	
Training Materials / Equipment Storage	900	Ladders, hoses - minor, personal safety equipment and associated small equipment plus cleaning/inspection area
Vertical Training with Loft	600	
Tech Training / Computer Training	800	Semi-fixed training table arrangement for 30 persons
Vehicle Equipment Bays	4,640	
Circulation	**2,530**	
TOTAL	**13,905**	

BUILDING TOTAL	**26,395**

Appendix C: Program Cost Estimates

TASK 5731 - MAA Training Facility Project Definition Document
CONSULTANT: AECOM
June 27, 2018
OPTION 1 - ARFF TIE-IN

ESTIMATING LEVEL: ☐ Budget ☑ Concept ☐ 30% ☐ 60% ☐ 100% ☐ Bid

ITEM	DESCRIPTION	UNIT	UNIT COST	QUANTITY	TOTAL	COMMENT
	CONSTRUCTION COST ESTIMATE					
1	EROSION AND SEDIMENT CONTROL (2.5% OF PAVEMENT)	LS	$ 115,950	1	$ 115,950	Calculated as approximately 2.5% of all pavements
2	ENVIRONMENTAL MITIGATION/STORM WATER MANAGEMENT (7.5% OF PAVEMENT)	LS	$ 347,850	1	$ 347,850	Calculated as approximately 7.5% of all pavements
3	SITE DEMOLITION (GENERAL)	SY	$ 10	121,000	$ 1,210,000	
4	UNCLASSIFIED EXCAVATION (HAULED AND DISPOSED OFF SITE)	CY	$ 15	61,000	$ 915,000	Quantity based on preliminary grading using Civil3D
5	UNCLASSIFIED EXCAVATION (HAULED AND PLACED ON SITE)	CY	$ 10	66,000	$ 660,000	Quantity based on preliminary grading using Civil3D
6	PARKING LOT STRENGTH HMA PAVEMENT (INCLUDING SUBBASE)	SY	$ 65	42,000	$ 2,730,000	
7	FULL STRENGTH PCC PAVEMENT (INCLUDING SUBBASE)	SY	$ 90	21,200	$ 1,908,000	
8	AREA LIGHTING	EA	$ 25,000	15	$ 375,000	Site area lighting
9	PERMANENT PAVEMENT MARKING	SF	$ 3	4,000	$ 12,000	
10	LANDSCAPING (TOPSOIL/SEED)	AC	$ 2,500	20	$ 50,000	
11	AOA FENCING	LF	$ 50	10,500	$ 525,000	Inlcudes temporary construction and permanent AOA fence
12	SECURITY FENCING	LF	$ 40	2,400	$ 96,000	
13	AOA POWER GATE	EA	$ 40,000	3	$ 120,000	
14	SECURITY SLIDE GATE	EA	$ 10,000	4	$ 40,000	
15	DRAINAGE IMPROVEMENTS	LF	$ 350	2,400	$ 840,000	
16	ELECTRICAL SERVICE	LF	$ 100	3,400	$ 340,000	
17	NATURAL GAS SERVICE	LF	$ 150	2,000	$ 300,000	
18	SANITARY SERVICE (PVC FORCE MAIN) OPEN CUT	LF	$ 50	5,800	$ 290,000	
19	GRAVITY SANITARY SERVICE	LF	$ 80	1,400	$ 112,000	
20	FORCE MAIN CLEANOUTS	EA	$ 1,500	16	$ 24,000	
21	MANHOLES	EA	$ 4,000	6	$ 24,000	
22	HORIZONTAL DIRECTIONAL DRILL	LF	$ 1,000	500	$ 500,000	
23	LIFT STATION	EA	$ 250,000	1	$ 250,000	
24	WATER SERVICE	LF	$ 150	2,400	$ 360,000	
25	COMMUNICATIONS SERVICE	LF	$ 130	2,600	$ 338,000	Cost includes ductbank and cabling
26	COMMUNICATIONS HANDHOLES	EA	$ 5,000	5	$ 26,000	Placed every 500'
27	BIKE TRAIL SIGNAL	EA	$ 53,000	2	$ 106,000	https://activelivingresearch.org/sites/default/files/Dill_Bicycle_Facility_Cost_June2013.pdf
28	BURN PIT GEOMEMBRANE	SF	$ 2	23,500	$ 47,000	Seaman Corporation XR-5 geomembrane (resists AFFF, Jet A and Propane)
	SUBTOTAL: CIVIL COST	-	-	-	**$ 12,661,800**	

ITEM	DESCRIPTION	UNIT	UNIT COST	QUANTITY	TOTAL	COMMENT
	CONSTRUCTION COST ESTIMATE					
29	AIRCRAFT MOCKUP (SAFT/FOS/PROP PROPANE)	LS	$ 5,500,000	1	$ 5,500,000	Design, manf., supply and deliver
30	FUEL SPILL BURN AREA (JET FUEL ONLY)	LS	$ 3,800,000	1	$ 3,800,000	Pit Construction and Jet fuel piping, plumbing, control system ($$$ based on specifications)
31	FUEL SPILL BURN AREA (ADD PROPANE AS OPTION)	LS	$ 1,000,000	1	$ 1,000,000	Propane piping, plumbing, control system
32	FUEL FACILITIES	LS	$ 650,000	1	$ 650,000	19,000 gal Jet A, 4,000 gal propane, includes foundations
33	WASTEWATER STORAGE TANK	LS	$ 750,000	1	$ 750,000	Minimum 250,000 gal for contaminated water, secondary containment
34	WASTEWATER TREATMENT PLANT	LS	$ 650,000	1	$ 650,000	Design, manf, supply and deliver (primary treatment for AAAF)
35	WATER STORAGE TANKS	LS	$ 560,000	1	$ 560,000	1 recycled water + 1 freshwater @ 125,000 gal each, includes foundations
36	UNDERGROUND SERVICES	LS	$ 850,000	1	$ 850,000	Reticulation systems for the different types of water, fuel, and elec/comm/control ductwork
37	SAFT INSTALLATION & SYSTEM COMMISSIONING	LS	$ 1,200,000	1	$ 1,200,000	Total system installation and commissioning
38	BURN BUILDING (RIFB)	LS	$ 1,600,000	1	$ 1,600,000	Purchase, construct and install fire systems
39	FLOODLIGHTING	LS	$ 400,000	1	$ 400,000	Purchase and install; for maneuvering area only
40	AUXILLIARY POWER	LS	$ 350,000	1	$ 350,000	Diesel generator, switch gear
41	ARFF TRAINING SPACE (ADMIN+OBS TWR) (14,005SF)	LS	$ 2,815,000	1	$ 2,815,000	Includes the Admin space, training space, obs/control tower, circulation
42	MAA EMPLOYEE TRAINING SPACE (11,640SF)	LS	$ 2,228,000	1	$ 2,228,000	Includes the Admin space, training space, circulations
43	BUILDING SUPPORT (750 SF)	LS	$ 128,000	1	$ 128,000	Mechanical, electrical
44	ALLOWANCE: FURNITURE, FIXTURES, EQUIPMENT	LS	$ 1,575,000	1	$ 1,575,000	Includes IT/AV
45	ALLOWANCE: TRAINING PROPS	LS	$ 450,000	1	$ 450,000	Provision for Vehicle Disassembly/Extraction, Confined Space Trainer, Flashover Simulator (CFBT)
46	ALLOWANCE: ENVIRONMENTAL CONTROLS/MONITORING	LS	$ 250,000	1	$ 250,000	Provisional cost for environmental controls and groundwater monitoring
	SUBTOTAL: FACILITIES COST		**-**	**-**	**$ 24,756,000**	

ITEM	DESCRIPTION	UNIT	UNIT COST	QUANTITY	TOTAL	COMMENT
	CONSTRUCTION COST ESTIMATE					
Special Systems	BAS (Metasys)				$ -	
	FAS (Honeywell)				$ -	
	CASS	LS	$ 325,000	1	$ 325,000	Lump sum includes card readers,
	CCTV				$ -	
	BGE				$ -	
	Verizon				$ -	
	BHS (Baggage Handling Systems)				$ -	
	Other Systems (Specify)				$ -	
SUBTOTAL A					**$ 37,742,800**	
Temporary Construction Items (shall not exceed 2% of A)				2%	$ 754,856	
SUBTOTAL B					$ 38,497,656	
Mobilization (shall not exceed 2% of B)				2%	$ 769,953	
SUBTOTAL C					**$ 39,267,609**	
Planning Contingency (30% of C)				30%	$ 11,780,283	
SUBTOTAL D					**$ 51,047,892**	
General Conditions X% of D (If not included in Unit Costs)				0%	$ -	
Contractor O&P X% of D (if not included in Unit Costs)				0%	$ -	
Construction Security Plan (X% of D)				1%	$ 510,479	
SUBTOTAL E					**$ 51,558,371**	
Construction Quality Control Plan (3% of E)				3%	$ 1,546,751	
SUBTOTAL F					**$ 53,105,122**	
Miscellaneous Construction Allowance (Minimum 10% of F)				10%	$ 5,310,512	
Construction Quality Control Plan (3% of Misc. Construction Allowance)				3%	$ 159,315	
TOTAL CONSTRUCTION COST ESTIMATE					**$ 58,574,949**	
	ADDITIONAL PROGRAM COSTS					
Estimated Design Fee (**As Required**-or 10% to 20% of Construction Cost*)				10%	$ 5,857,495	
Design Fee Contingency (X% of Estimated Design Fee)				15%	$ 878,624	
Estimated MAA Project Management Fee (X% of Estimated Design Fee)				10%	$ 585,750	
Estimated CMI Fee (X% of Construction Cost)				10%	$ 5,857,495	
TOTAL CAPITAL PROGRAM COST ESTIMATE					**$ 71,754,313**	
Escalation Factor X% (if applicable)				0%	$ -	
GRAND TOTAL					**$ 71,800,000**	

Level of Accuracy	☐ Quantity Take-Off	☑ General Square Foot	☐ Comparison with other installations/facilities
List of Sole Source Items	1	3	5
Included in this Contract	2	4	6
List of Assumptions			

***Designer Note: Design fees should be based upon actual fees or considered percentage levels for scope of work or method of procurement.**
Range listed is a general guideline as an early fee placeholder on larger tasks.

Appendix D: Plan Set (Bound Separately)

AECOM

ADCI
AIRPORT DESIGN CONSULTANTS INC