

FINAL DRAFT :
AKKOORD
BEVONDEN
DOOR ODBN

NIMBY **Heeswijkse** **Aa-beemden**



Verspreidings- berekening NO₂

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Het onderhavige rapport is opgesteld door Enviro Challenge bedrijfsadviseurs in opdracht van Gemeente Bernheze in het kader van het door Provincie Noord-Brabant gesubsidieerde NIMBY-project.

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1 Inleiding

samenvatting

De onderhavige verspreidingsberekening geeft een inzicht in de impact van de gewenste activiteiten van Gebr. Dijkhoff bv op de concentratie van NO_2 (stikstofdioxide) in de omgevingslucht, een stof die met name in hoge concentraties schadelijk is voor mens, flora en fauna.

achtergrond

Gebr. Dijkhoff bv wenst de bedrijfsactiviteiten aan te passen aan de marktontwikkelingen en zich te ontdoen van de NIMBY-status door de bedrijfsinrichting aan de Heeswijkseweg in harmonie te brengen met het landschap en de omgeving middels een wijziging van het bestemmingsplan en de omgevingsvergunning (Wabo). Met dit initiatief, dat deel uitmaakt van een integraal plan genaamd “Heeswijkse Aa-beemden”, beoogt het bedrijf op de transitie in de bouwsector in te spelen, effecten op de omgeving te minimaliseren, sociale en bedrijfsdoelstellingen te realiseren en het voortbestaan van het familiebedrijf te garanderen.

aanleiding

Door de ontwikkelingen van de bedrijfsactiviteiten van Gebr. Dijkhoff bv zal ook de verkeersaantrekkende werking van het bedrijf wijzigen. Dit heeft als gevolg dat de emissie van uitlaatgassen eveneens zal toenemen, hetgeen de aanleiding tot het voorliggende rapport vormt.

NO_2 of stikstofdioxide is een verbinding van zuurstof (O) en stikstof (N). Stikstofoxiden (NO_x) ontstaan bij verbranding op hoge temperatuur, bijvoorbeeld in een verbrandingsmotor. Stikstofoxiden kunnen in hoge concentraties negatieve effecten hebben op mens, flora en fauna, namelijk irritaties van de ogen, keel en neus alsook astma-aanvallen. De gewenste bedrijfssituatie van Gebr. Dijkhoff bv geeft geen aanleiding tot hoge concentraties. Echter, in lage concentraties veroorzaken stikstofoxiden deels ook een “moeraseffect” en een verzuring van het milieu.

doel

Het doel van de onderhavige verspreidingsberekening is aantonen dat de toename van NO_2 in de omgevingslucht ten gevolge van de gewenste bedrijfsactiviteiten niet leidt tot een overschrijding van de vigerende eisen.

leeswijzer

Het onderhavige rapport belicht na deze inleiding de wetgeving en het beleid betreffende NO_2 in hoofdstuk 2 en de (gewenste) bedrijfssituatie in hoofdstuk 3. Verder geeft hoofdstuk 4 een omschrijving van de bronnen en hoofdstuk 5 van het rekenmodel waarmee in hoofdstuk 6 de resultaten zijn berekend. Tenslotte biedt hoofdstuk 7 de conclusie van het voorliggende rapport, waarna een samenvatting en een bijlage volgen.

2 Wetgeving en beleid

samenvatting

Volgens de Wet milieubeheer zijn aangaande NO₂ twee grenswaarden relevant. De jaargemiddelde concentratie mag 40 µg/m³ niet overschrijden en het aantal overschrijdingen per jaar van het uurgemiddelde van de waarde 200 µg/m³ mag niet hoger zijn dan 18 uren.

Wet milieubeheer

In bijlage 2 bij de Wet milieubeheer worden wettelijke luchtkwaliteitseisen genoemd voor luchtverontreinigende stoffen. Van de lijst met stoffen zijn voor de onderhavige inrichting PM10 (fijn stof) en NO₂ (stikstofdioxide) relevant. In het onderhavige rapport wordt NO₂ behandeld. PM10 komt in een afzonderlijk rapport aan bod, namelijk in het rapport “NIMBY Heeswijkse Aa-beemden - Verspreidingsberekening PM10” van Enviro Challenge.

Volgens de Wet milieubeheer dienen de grenswaarden voor de stoffen in acht te worden genomen, uitgezonderd de arbeidsplaats zoals bedoeld in de Arbeidsomstandighedenwet uit 1998. Volgens de laatstgenoemde wet wordt daaronder verstaan “iedere plaats die in verband met het verrichten van arbeid wordt of pleegt te worden gebruikt”. Dit betekent dat de door de inrichting veroorzaakte luchtmissie ten gevolge van de aangevraagde activiteiten op ieder willekeurig punt buiten de grenzen van de inrichting dient te worden getoetst. De te toetsen concentratie bestaat uit de som van het ter plaatse heersende achtergrondniveau en de bijdrage van de aangepaste activiteiten.

grenswaarden NO₂

Voor NO₂ zijn volgens de Wet milieubeheer (zie bijlage 2, paragraaf 2) twee grenswaarden relevant, namelijk :

- jaargemiddelde concentratie : 40 µg/m³; en
- aantal overschrijdingen per jaar van het uurgemiddelde van de waarde 200 µg/m³ : 18 uren.

3

Bedrijfssituatie

De bedrijfssituatie is uitvoerig beschreven in het rapport “NIMBY Heeswijkse Aa-beemden - Activiteiten” van Enviro Challenge.

Illustratie 1 :
Zeven van grond
als bron van NO_2
door gebruik van
zeef en kraan met
verbrandingsmotoren



Illustratie 2 :
Materieel en voertuigen
als bron van NO_2
door dieselmotoren



4 Bronbeschrijving

samenvatting

De NO₂-bronnen ten gevolge van de gewenste activiteiten worden gecombineerd met emissiekengetallen om zo te komen tot NO₂-emissies. Het gaat met name over het overslaan en bewerken van materialen en stoffen, alsmede over verkeersbewegingen.

bronnen

De NO₂-bronnen ingevolge de gewenste activiteiten en de bijbehorende emissiekengetallen per eenheid brandstof vormen een belangrijk uitgangspunt voor de hiernavolgende berekeningen. Verder in dit hoofdstuk volgt een tabel over twee pagina's met de relevante NO₂-bronnen.

oppervlaktebronnen

Alle in de tabel genoemde bronnen, met uitzondering van de verkeersbronnen, zijn oppervlaktebronnen omwille van de volgende redenen :

- De genoemde bronnen, inclusief de zeef- en breekinstallatie, worden gekenmerkt door ruimtelijke uitgestrektheid.
- In het rapport "Inventarisatie Microstof van Megarecycling" (bron : Janssen, G. en Put, J. : Managementnotitie "Inventarisatie Microstof van Megarecycling", Enviro Challenge, Eindhoven, 31 december 2008), waarin PM10-emissiekengetallen zijn bepaald aan de hand van immissiemetingen, zijn deze bronnen ook oppervlaktebronnen.
- De controle van de berekening door het bevoegd gezag is overzichtelijker en eenvoudiger als één oppervlaktebron wordt gekozen in plaats van bijvoorbeeld vijftig puntbronnen naast elkaar.
- Volgens de website van InfoMil geeft de handreiking van het Nieuw Nationaal Model II het volgende aan : *"Bij receptorpunten op grotere afstand van de bron geeft een oppervlaktebron bij benadering dezelfde immissies als een puntbron."*

kengetallen

Het verspreidingsmodel Geomilieu rekent met kengetallen voor NO_x en leidt daaruit de waarde voor NO₂ af. Daarom zijn in de hiernavolgende tabel het kengetal voor NO_x en het gehalte NO₂ in NO_x weergegeven.



AdBlue

Gebr. Dijkhoff bv werkt gedeeltelijk met diesel waaraan AdBlue wordt toegevoegd. AdBlue is een gedeponeerde handelsnaam voor AUS32, een oplossing bestaande uit 32,5 % ureum en 67,5 % gedemineraliseerd water die wordt gebruikt als toevoeging aan diesel. Het middel wordt in de hete uitlaatgassen ingespoten vóór een speciale katalysator. De bij de verbranding gevormde stikstofoxiden worden in elementair stikstof en water omgezet, waardoor minder stikstofoxiden worden uitgestoten. In de verspreidingsberekening is met de toevoeging van AdBlue geen rekening gehouden. In de toekomst zal het bedrijf ernaar streven zoveel mogelijk vrachtwagens op een mengsel van diesel en AdBlue te laten rijden.

verkeersbewegingen per as

In het verspreidingsmodel Geomilieu wordt voor de verkeersbewegingen gerekend met de "emissiekengetallen wegverkeer" van de Nederlandse overheid. De bewegingen vertegenwoordigen de verkeersaantrekkende bewegingen die door de inrichting worden veroorzaakt.

Ter zake zijn de volgende aannames gemaakt :

- Alle verkeersbewegingen gebeuren met vrachtwagens van 25 à 30 ton;
- Bronnen 11 tot en met 15 en bron 17 (= alle transportafstanden buiten de inrichting) zijn opgevat als een lijntraject van ongeveer één kilometer buiten de inrichting in vier verschillende richtingen (transport naar noorden, oosten, zuiden en westen); en
- Bron 16 (= intern verkeer) is als een lijntraject opgevat.

intermodaal transport

Gebr. Dijkhoff bv onderzoekt de mogelijkheid om in de toekomst gedeeltelijk met intermodaal transport te gaan werken. Bij intermodaal transport worden verschillende transportmiddelen gecombineerd. Bouw- en afvalstoffen kunnen met vrachtwagens dan wel met schepen worden aan- en afgevoerd. Verwacht wordt dat een vervanging van 20 % van het transport per as door transport over water (vanuit een nog te realiseren langshaven) een reducerend effect op de emissie van NO₂ heeft. Daarom zijn de berekeningen uitgevoerd voor het scenario met alleen vrachtwagenbewegingen (= worstcasescenario).

transportband

Indien een transportband wordt gebruikt om materialen en stoffen te vervoeren over de N279 naar een langshaven aan de Zuid-Willemsvaart, dan is dit een elektrisch aangedreven transportband waardoor geen bijkomende NO₂-emissie wordt veroorzaakt. Wel wordt een extra kraan aan de langshaven geplaatst.

werkdagen

De onderstaande emissiefactoren zijn op basis van een vijfdagenweek opgesteld. Hoewel Gebr. Dijkhoff bv incidenteel activiteiten uitvoert op zaterdag, is in de onderhavige verspreidingsberekening gekozen voor een werkweek van vijf werkdagen. Dit heeft als gevolg dat de activiteiten over minder dagen worden gespreid en bijgevolg de emissiefactoren hoger zijn, waardoor een “worst case” wordt berekend.

additioneel transport N279

Naar aanleiding van de “Burendenktank” die op 22 juli 2014 ten kantore van Enviro Challenge is gehouden, is een extra bron aan het model toegevoegd die *niet* aan het bedrijf is gerelateerd. Gebr. Dijkhoff bv is derhalve niet verantwoordelijk voor deze extra bron. Het betreft het additionele transport ten gevolge van de verbreding van de N279, met name 7.100 bijkomende verkeersbewegingen per dag.

worstcasescenario

Op grond van meerdere redenen kan de voorliggende berekening als een “worstcasescenario” worden beschouwd. De belangrijkste zijn :

- Het gebruik van AdBlue wordt niet in de berekening meegenomen;
- Het model houdt geen rekening met eventueel intermodaal transport;
- Met exceptionele werkweken van zes werkdagen wordt geen rekening gehouden, waardoor de activiteiten in het rekenmodel in minder dagen worden uitgevoerd dan in werkelijkheid. Bijgevolg is de emissie in het rekenmodel hoger dan in werkelijkheid;
- In het model is bijkomend een bedrijfsexterne bron opgenomen, namelijk de toename van het wegverkeer op de N279 tussen 2014 en 2025;
- Voor alle bronnen zijn telkens de *maximale* hoeveelheden in rekening gebracht.

NO ₂ -bron (zie rapport “NIMBY Heeswijkse Aa-beemden - Activiteiten” van Enviro Challenge)		hoeveelheid	kengetal NO _x	dieselverbruik	spreading over het jaar	emissie NO _x	NO ₂ /NO _x
2a	overslaan van alle stromen behalve niet-verontreinigde grond, grond van onbekende kwaliteit en bouwstoffen, alsmede gekeurde grond en bouwstoffen (met één wiellader)	516.600 ton ⁽¹⁾	15,8 g/kg diesel ⁽⁴⁾	20 l/u	260 d x 12 u	0,0000741722 kg/s ⁽⁵⁾	10 % ⁽⁶⁾
2b	overslaan van niet-verontreinigde grond, grond van onbekende kwaliteit en bouwstoffen, alsmede gekeurde grond en bouwstoffen (met één wiellader)	200.000 ton ⁽¹⁾	15,8 g/kg diesel ⁽⁴⁾	20 l/u	260 d x 12 u	0,0000741722 kg/s ⁽⁵⁾	10 % ⁽⁶⁾
3	granuleren van puin	200.000 ton	15,8 g/kg diesel ⁽⁴⁾	30 l/u	200 d x 8 u	0,0001112583 kg/s ⁽⁵⁾	10 % ⁽⁶⁾
4	zeven van (niet-verontreinigde) grond, grond van onbekende kwaliteit en bouwstoffen	200.000 ton	15,8 g/kg diesel ⁽⁴⁾	30 l/u	250 d x 8 u	0,0001112583 kg/s ⁽⁵⁾	10 % ⁽⁶⁾
6	sorteren van gemengd bouw- en sloopafval en grof huishoudelijk afval (met twee kranen)	20.000 ton	15,8 g/kg diesel ⁽⁴⁾	2 x 20 l/u	208 d x 8 u	0,0001483444 kg/s ⁽⁵⁾	10 % ⁽⁶⁾
8	sorteren van gipshoudende afvalstoffen (met één kraan)	10.000 ton	15,8 g/kg diesel ⁽⁴⁾	20 l/u	208 d x 8 u	0,0000741722 kg/s ⁽⁵⁾	10 % ⁽⁶⁾
11	projectverkeer richting noorden	10.700 v ⁽²⁾	-	-	260 d x 12 u	-	-
12	projectverkeer richting oosten	42.798 v ⁽²⁾	-	-	260 d x 12 u	-	-
13	projectverkeer richting zuiden	10.700 v ⁽²⁾	-	-	260 d x 12 u	-	-
14	projectverkeer richting westen	42.798 v ⁽²⁾	-	-	260 d x 12 u	-	-
15	verkeer tussen twee bedrijfslocaties richting noorden	1.040 v ⁽²⁾	-	-	260 d x 12 u	-	-
16	intern verkeer	107.946 v ⁽²⁾	-	-	260 d x 12 u	-	-
17	additionele verkeersbewegingen na verbreding van N279	2.591.500 v ⁽³⁾	-	-	365 d x 24 u	-	-

informatiebronnen en aannames

De cijfers in superschrift bij de waarden uit de tabel verwijzen naar de volgende informatiebronnen en aannames :

- (1) De totale overslaghoeveelheid van alle lijnen samen, met name de BSA-lijn (200.000 ton), de samenstellingslijn (270.000 ton), de bouwmaterialen / zand / grond / grind-lijn (220.000 ton), de sorteerlijn (30.000 ton) en de procesloze lijn (16.000 ton) bedraagt 736.000 ton. De volgende hoeveelheden worden echter niet meegerekend : 400 ton additieven (samenstellingslijn), 18.000 ton aanmaakwater (samenstellingslijn) en 1.000 ton asbesthoudende materialen (procesloze lijn). Bijgevolg wordt gerekend met een overslaghoeveelheid van 716.600 ton (zie rapport “NIMBY Heeswijkse Aa-beemden - Activiteiten” van Enviro Challenge). De overslag gebeurt op twee locaties binnen het bedrijf. Aan de noordzijde van het terrein wordt 200.000 ton overgeslagen. Deze hoeveelheid houdt verband met enerzijds niet-verontreinigde grond, grond van onbekende kwaliteit en bouwstoffen, en anderzijds gekeurde grond en bouwstoffen. De overige 516.600 ton wordt aan de oostzijde van het terrein overgeslagen.
- (2) Het aantal vrachten naar en van de inrichting wordt in het rapport “NIMBY Heeswijkse Aa-beemden - Verkeer” van Enviro Challenge onderbouwd. Aangenomen wordt dat 50 % van de vrachtwagens een retourvracht inhoudt.
- (3) Onderzoek wijst uit dat ter hoogte van Heeswijk de verkeersintensiteit per etmaal zal stijgen van 25.700 tot 32.800 motorvoertuigen. Op jaarbasis zijn dit derhalve 2.591.500 extra verkeersbewegingen. Bron : Provincie Noord-Brabant : ‘Provinciaal Inpassingsplan N279 ‘s-Hertogenbosch - Veghel (NL.IMRO.9930. ipN279-va01)’, Provincie Noord-Brabant, <http://ro.brabant.nl/AEA18C17-3DCE-4462-A4DF-574005952906/t_NL.IMRO.9930.ipN279-va02_Paragraaf2.2.html> (geraadpleegd op 8 september 2014)
- (4) Centraal Bureau voor de Statistiek (CBS) : ‘Luchtverontreiniging, feitelijke emissies door mobiele bronnen’, Centraal Bureau voor de Statistiek, <<http://statline.cbs.nl/StatWeb/publication/?DM=SLNL&PA=7062&D1=13&D2=19&D3=20-22&VW=T>> (geraadpleegd op 8 mei 2014)
- (5) Eén liter diesel heeft een massa van 0,845 kg.
- (6) In de internationale literatuur wordt geen eenduidig cijfer voor de verhouding van NO₂ ten opzichte van NO_x genoemd. Afgaande op verschillende studies, waarin getallen van 5,6 tot 12,7 % NO₂/NO_x worden genoemd, is besloten een waarde van 10 % aan te houden.

5 Rekenmodel

samenvatting

Om de verspreiding van NO₂ te berekenen, is in het voorliggende rapport gebruikgemaakt van het verspreidingsmodel Geomilieu.

Geomilieu

De berekeningen in het onderhavige rapport zijn uitgevoerd met behulp van het verspreidingsmodel Geomilieu v2.60 (64-bit), module Luchtkwaliteit - Stacks (KEMA Stacks + versie 2014.1 / PreSRM 1.4.0.2).

input

De in hoofdstuk 4 genoemde bronnen vormen de input van het model, samen met de hiernavolgende locatiegerelateerde opties.

- toetsjaar : 2014
- rekenperiode : 1 januari 1995 tot 31 december 2004
- meteo referentiepunt station : X = 159.887,70 en Y = 406.067,60
- terreinruwheid : gebaseerd op modelgebied
 - $X_{\min} = 158.000$ // $X_{\max} = 162.000$
 - $Y_{\min} = 404.000$ // $Y_{\max} = 408.000$
- zeezoutcorrectie : ja
- rekengrid : 1.250 m x 850 m
- intervallen : 25 m x 25 m

keuze intervallen

Gekozen is voor intervallen van 25 m omdat het terrein dusdanig homogeen is dat binnen deze intervallen door de homogeniteit geen verschillen bestaan, zoals bijvoorbeeld aanwezigheid van woningen, scholen, verzorgingstehuizen, ziekenhuizen en openluchtsportinfrastructuur.

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Illustratie 3 :
N279 ten zuiden
van bedrijf als bron
van stikstofoxiden



6 Rekenresultaten

samenvatting

Uit de “worst case”-verspreidingsberekening kan worden geconcludeerd dat noch de grenswaarde van de jaargemiddelde concentratie, noch de immissie-eis betreffende het aantal overschrijdingsuren op enig punt buiten de inrichting wordt overschreden.

PIP N279

De volgende percelen (kadastraal nummer, eigenaar) worden geamoveerd in het kader van het Provinciaal inpassingsplan (PIP) N279 met nummer NL.IMRO.9930.ipN279, onherroepelijk verklaard op 27 augustus 2014 :

- tankstation (HWK02E 01925G0000, Provincie Noord-Brabant);
- autohandel Kanaaldijk 26 (HWK02E 01814G0000, J.A.I. Vorstenbosch);
- woning Heeswijkseweg 2 (HWK02E 02119G0000, H.G.C.M. van Oorschot);
- woning Kanaaldijk 18 (HWK02E 02087G0000, Provincie Noord-Brabant);
- horecazaak Kanaaldijk 14 (HWK02E 01747G0000, N.P.A. Ploegmakers);
- woning Kanaaldijk 12 (HWK02E 01950G0000, Provincie Noord-Brabant).

figuren

De hiernavolgende paragrafen bevatten twee figuren. Een eerste figuur geeft (paragraaf 6.1) de contourlijnen voor de jaargemiddelde concentratie (immissie) van NO₂ weer, de tweede figuur (paragraaf 6.2) geeft de contourlijnen voor het aantal overschrijdingen per jaar van het uurgemiddelde weer. In de figuren is de “worst case” weergegeven.

journaalbestanden

In bijlage 1 bij het onderhavige rapport zijn de journaalbestanden van GeoMilieu opgenomen.

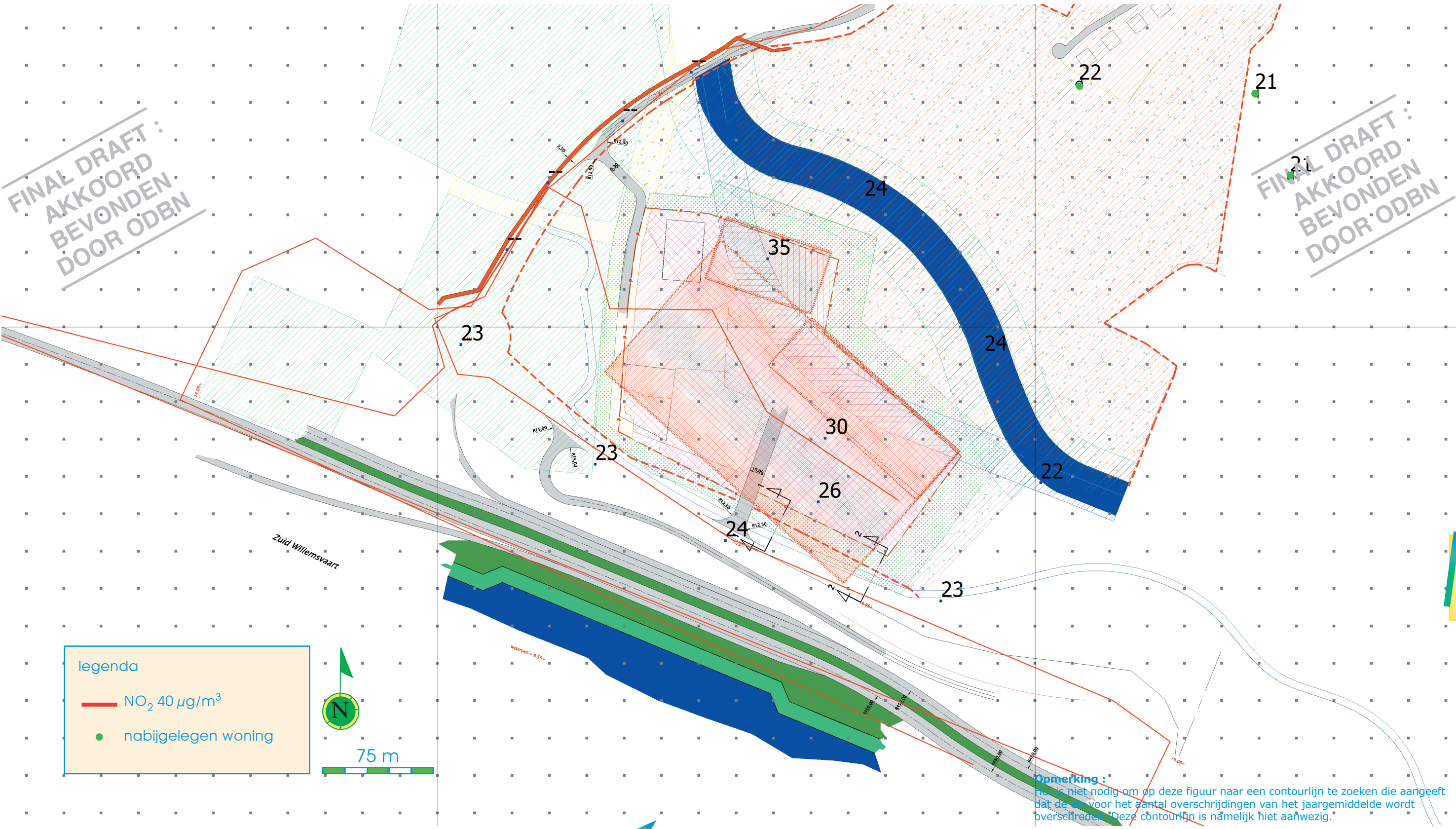
jaargemiddelde concentratie

Figuur 6.1 toont aan dat de jaargemiddelde concentratie NO₂ op elk punt buiten de inrichting, dus ook ter hoogte van de dichtstbijzijnde woningen (zowel reeds gerealiseerd als gepland op de publicatiedatum van het onderhavige rapport) minder bedraagt dan 30 µg/m³ en dus ruim onder de wettelijke eis van 40 µg/m³ blijft.

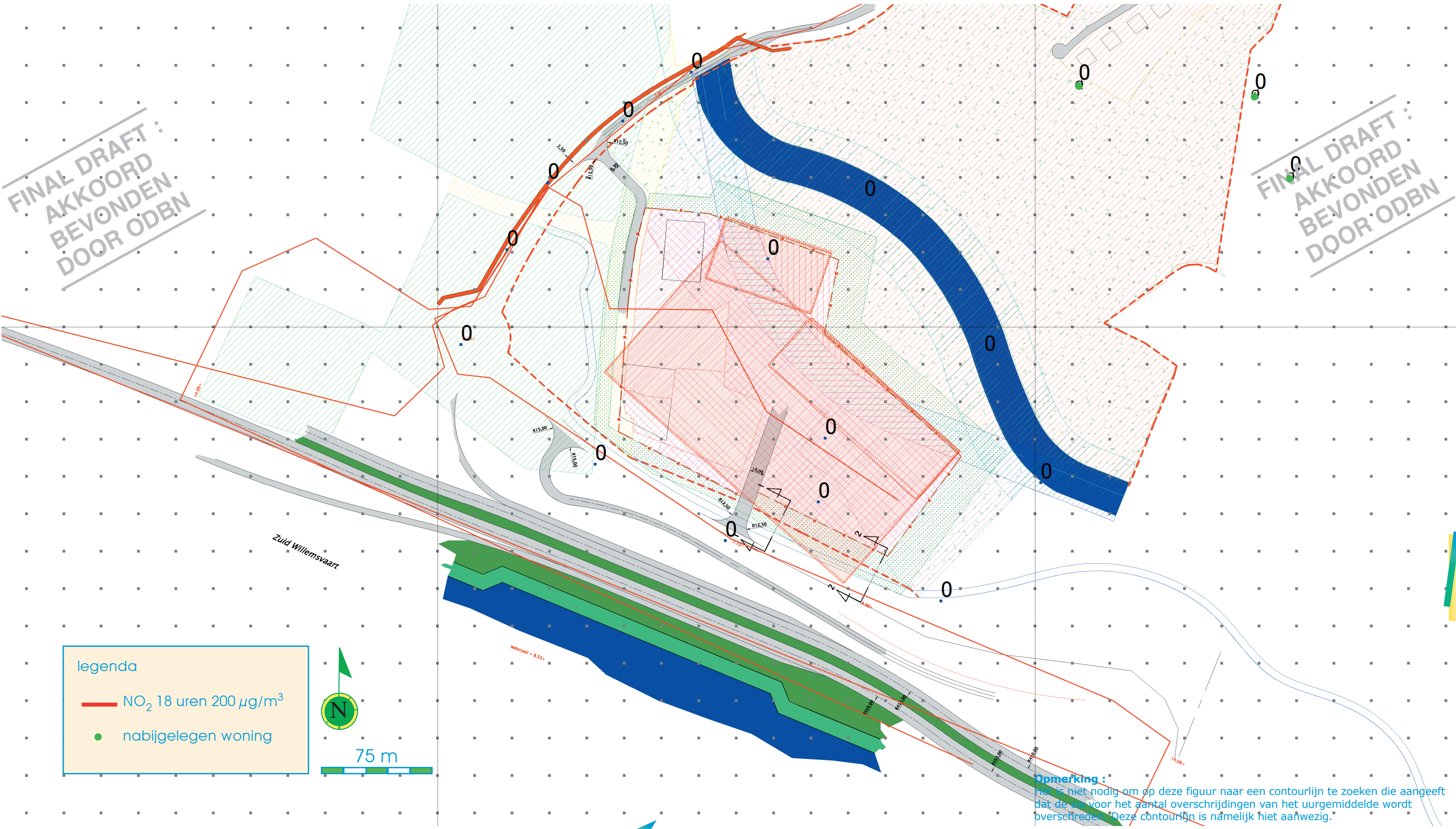
aantal overschrijdingsdagen

Uit figuur 6.2 kan worden vastgesteld dat de uurgemiddelde concentratie NO₂ op geen enkel moment hoger ligt dan 200 µg/m³. Het aantal overschrijdingsuren is bijgevolg 0 en blijft dus op elk punt buiten de inrichting onder de wettelijke eis van 18 uren.

6.1 **Figuur jaargemiddelde concentratie**



6.2 **Figuur aantal overschrijdingen per jaar**



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Illustratie 4 :
Verbrandingsmotoren
veroorzaken een
stikstofoxidenemissie.



7

Conclusie

samenvatting

Door wijzigingen in materieel en brandstoffen ontstaat een verbetering ten opzichte van de vergunde situatie op het ogenblik van publicatie van het onderhavige rapport. De voorgenomen wijziging van de bedrijfsactiviteiten heeft voor wat betreft de emissie van NO₂ geen negatieve invloed op het milieu en de omgeving.

milieukundig

Uit de berekening van de immissie van NO₂ kan worden geconcludeerd dat de som van het ter plaatse heersende NO₂-achtergrondniveau en de bijdrage van de aangepaste activiteiten buiten de grenzen van de inrichting voldoet aan de NO₂-eisen die in de Wet milieubeheer zijn gesteld.

ruimtelijk

Ter plaatse van de dichtstbijzijnde woningen (Liekendonk 11 en Monseigneur van Oorschotlaan 29) ligt de berekende NO₂-concentratie ruim onder de eisen die in de Wet milieubeheer voor NO₂ worden gesteld. De jaargemiddelde concentratie NO₂ bedraagt op beide locaties 21 µg/m³. De eis voor het aantal overschrijdingsuren per jaar van het uurgemiddelde van de waarde 200 µg/m³ wordt op geen enkel punt overschreden. Ook de anno 2014 geplande woningen ter hoogte van de Monseigneur van Oorschotlaan liggen buiten het gebied waar de eisen worden overschreden. De jaargemiddelde concentratie bedraagt daar 22 µg/m³.

te formuleren voorwaarden

Hierna volgen mogelijke voorwaarden die kunnen worden opgelegd in de vergunning ingevolge de Wet algemene bepalingen omgevingsrecht (Wabo) en/of de bestemmingsplanwijziging :

- snelheid op het terrein tot maximaal 10 km/u beperken;
- zo veel mogelijk AdBlue gebruiken; en
- nieuwe investeringen zoals transportmiddelen en installaties zoveel mogelijk elektrisch aangedreven.



Illustratie 5 :
Vergelijking contourlijnen jaarconcentratie NO₂ vigerende vergunning
(rood) en gewenste situatie (oranje, niet aanwezig)

Samenvatting

inleiding	De onderhavige verspreidingsberekening geeft een inzicht in de impact van de geplande activiteiten van Gebr. Dijkhoff bv op de aanwezigheid van het voor mens, flora en fauna schadelijke NO ₂ (stikstofdioxide) in de omgevingslucht.
wetgeving en beleid	Volgens de Wet milieubeheer zijn twee grenswaarden relevant. De jaargemiddelde concentratie mag 40 µg/m ³ niet overschrijden en het aantal overschrijdingen per jaar van het uurgemiddelde van de waarde 200 µg/m ³ mag niet hoger zijn dan 18 uren.
bedrijfssituatie	De bedrijfssituatie is uitvoerig beschreven in het rapport "NIMBY Heeswijkse Aa-beemden - Activiteiten" van Enviro Challenge.
bronbeschrijving	De NO ₂ -bronnen ten gevolge van de activiteiten worden gecombineerd met emissiekengetallen om zo te komen tot NO ₂ -emissies. Het gaat met name over bewerken van afvalstoffen, overslag van materialen en verkeersbewegingen.
rekenmodel	De berekende NO ₂ -emissies worden ingevoerd in het verspreidingsmodel GeoMilieu, dat vervolgens de NO ₂ -immissie berekent.
rekenresultaten	Uit de "worst case"-verspreidingsberekening kan worden geconcludeerd dat noch de grenswaarde van de jaargemiddelde concentratie, noch de immissie-eis betreffende het aantal overschrijdingsuren op enig punt buiten de inrichting wordt overschreden.
conclusie	Door wijzigingen in materieel en brandstoffen ontstaat een verbetering ten opzichte van de vergunde situatie op het ogenblik van publicatie van het onderhavige rapport. De voorgenomen wijziging van de bedrijfsactiviteiten heeft voor wat betreft de emissie van NO ₂ geen negatieve invloed op het milieu en de omgeving.

FINAL DRAFT :
AKKOORD
BEVONDEN
DOOR ODBN

Bijlage : **Journaalbestanden Geomilieu**

administratie		broncoordinaten		gegevens gebouwinvloed			
bronn°	bronnaam	X (m)	Y (m)	X gebouw (midden)	Y gebouw (midden)	hoogte gebouw (m)	breedte gebouw (m)
34	01_rec	160285.0	406345.6	0.0	0.0	0.0	0.0
35	02_zeven	160220.9	406441.0	0.0	0.0	0.0	0.0
36	03_sort_gr	160284.8	406345.7	0.0	0.0	0.0	0.0
37	04_sort_gi	160285.4	406345.7	0.0	0.0	0.0	0.0
38	13_ovsl_g	160221.6	406440.9	0.0	0.0	0.0	0.0
39	12_osl	160231.2	406343.6	0.0	0.0	0.0	0.0

lengte gebouw (m)	orientatie gebouw (°)	oppervlaktebron			hoogte bron (m)	schoorsteen gegevens		
		lengte bron (m)	breedte bron (m)			orientatie bron (°)	hoogte (m)	inw. diameter (m)
0.0	0.0	134.3	39.3		1.5	139.1	0.0	0.0
0.0	0.0	74.3	42.8		1.5	161.4	0.0	0.0
0.0	0.0	132.8	42.7		1.5	137.6	0.0	0.0
0.0	0.0	133.3	43.4		1.5	137.9	0.0	0.0
0.0	0.0	74.3	42.8		1.5	161.3	0.0	0.0
0.0	0.0	213.3	117.3		1.5	138.6	0.0	0.0

[illegible]

warmte-emissie afh. van meteo	emissie	Perc.initieel NO2 (%)	emissie uren (aantal/jr)
	emissievracht (kg of ouE /uur)		
nee	0.4005	5.0	1596.8
nee	0.4005	5.0	1992.5
nee	0.5340	5.0	1671.5
nee	0.2670	5.0	1641.1
nee	0.2670	5.0	3100.7
nee	0.2670	5.0	3127.9

gegeven is de fractie van de gemiddelde emissiesterkte over de bedrijfsuren per tijdseenheid
 uren van de dag

bronn°	bronnaam	gem. emissievracht (kg of ouE /uur)	0-1 uur	1-2 uur	2-3 uur	3-4 uur	4-5 uur	5-6 uur	6-7 uur
34	01_rec	0.4005	0.177	0.180	0.188	0.172	0.192	0.181	0.177
35	02_zeven	0.4005	0.232	0.228	0.226	0.227	0.235	0.223	0.238
36	03_sort_gr	0.5340	0.184	0.187	0.193	0.199	0.184	0.187	0.197
37	04_sort_gi	0.2670	0.199	0.184	0.196	0.176	0.192	0.185	0.192
38	13_ovsl_g	0.2670	0.367	0.363	0.350	0.348	0.346	0.367	0.339
39	12_osl	0.2670	0.352	0.347	0.354	0.368	0.365	0.358	0.350

7-8 uur	8-9 uur	9-10 uur	10-11 uur	11-12 uur	12-13 uur	13-14 uur	14-15 uur	15-16 uur	16-17 uur
0.181	0.187	0.174	0.179	0.182	0.185	0.189	0.182	0.198	0.178
0.224	0.225	0.235	0.230	0.222	0.224	0.228	0.220	0.227	0.221
0.184	0.192	0.192	0.191	0.188	0.179	0.190	0.184	0.195	0.197
0.193	0.183	0.182	0.185	0.182	0.182	0.182	0.192	0.180	0.186
0.350	0.363	0.361	0.355	0.349	0.352	0.347	0.354	0.350	0.352
0.360	0.348	0.353	0.369	0.345	0.362	0.360	0.355	0.359	0.353

17-18 uur	18-19 uur	19-20 uur	20-21 uur	21-22 uur	22-23 uur
0.179	0.182	0.189	0.190	0.182	0.176
0.227	0.242	0.236	0.218	0.222	0.228
0.195	0.201	0.187	0.198	0.189	0.197
0.191	0.179	0.198	0.185	0.191	0.195
0.348	0.366	0.351	0.336	0.356	0.354
0.353	0.350	0.359	0.351	0.369	0.365

	dagen van de week							maanden van het jaar		
23-24 uur	maandag	dinsdag	woensdag	donderdag	vrijdag	zaterdag	zondag	januari	februari	maart
0.174	0.181	0.183	0.181	0.183	0.186	0.186	0.176	0.181	0.176	0.184
0.221	0.222	0.232	0.230	0.225	0.228	0.228	0.227	0.231	0.227	0.225
0.188	0.189	0.194	0.192	0.191	0.186	0.190	0.193	0.190	0.190	0.187
0.187	0.186	0.188	0.189	0.185	0.189	0.188	0.186	0.187	0.181	0.187
0.372	0.353	0.358	0.351	0.354	0.350	0.358	0.353	0.345	0.338	0.356
0.365	0.363	0.354	0.352	0.352	0.362	0.356	0.360	0.352	0.336	0.351

april	mei	juni	juli	augustus	september	oktober	november	december
0.179	0.181	0.180	0.186	0.185	0.181	0.185	0.179	0.184
0.225	0.223	0.228	0.226	0.227	0.230	0.218	0.229	0.233
0.201	0.196	0.190	0.194	0.190	0.190	0.188	0.190	0.178
0.186	0.192	0.194	0.188	0.180	0.183	0.192	0.187	0.185
0.349	0.356	0.360	0.353	0.357	0.351	0.364	0.353	0.355
0.352	0.356	0.360	0.366	0.357	0.359	0.368	0.356	0.359

applicatie	computerprogramma	STACKS+ VERSIE 2014.1	
	release datum	Release 3 juni 2014	
	versie PreSRM tool		14.020
datum berekening	starttijd berekening (datum/tijd)		10-12-14 20:08
	eindtijd berekening		10-12-14 20:13
receptorpunten (rijksdriehoek)	totaal aantal receptorpunten		3559
	regematig grid	onbekend	
	aantal gridpunten horizontaal	nvt	
	aantal gridpunten vertikaal	nvt	
	meest westelijke punt (X-coord.)		159250
	meest oostelijke punt (X-coord.)		161050
	meest zuidelijke punt (Y-coord.)		405775
	meest noordelijke punt (Y-coord.)		406975
	naam receptorpunten bestand	points.dat	
	receptorhoogte (m)	1.50	
meteorologie	meteo-dataset	uit PreSRM	
	begindatum en tijdstip	1995 1 1 1	
	einddatum en tijdstip	2004 12 31 24	
	X-coördinaat (m)		159888
	Y-coördinaat (m)		406067
	monte-carlo percentage (%)	100.0	
terreinruwheid	ruwheidslengte (m)	0.36	
	bron ruwheidslengte PreSRM (ja/nee)	ja	
	ruwheidslengte bepaald in gebied		
	X-coord. links onder		158000
	Y-coord. links onder		404000
	X-coord. rechts boven		162000
	Y-coord. rechts boven		408000
stofgegevens	component	NO2	
	toetsjaar		2014
	ozon correctie (ja/nee)	ja	
	percentielen berekend (ja/nee)	nee	
	middelingstijd percentielen (uur)	nvt	
	depositie berekend	nee	
	eigen achtergrondconcentratie gebruikt	nee	
bronnen	aantal bronnen		39
wegverkeer	Werk- of weekdag VI	weekdag	
	weekendfac.zat.LV	0.870	
	weekendfac.zat.MV	0.520	
	weekendfac.zat.ZV	0.330	
	weekendfac.zon.LV	0.840	
	weekendfac.zon.MV	0.340	
	weekendfac.zon.ZV	0.160	
zeezoutcorrectie (voor PM10)	concentratie (ug/m3)	nvt	
	overschrijdingsdagen	nvt	

volgn°	X coördinaat (m)	Y coördinaat (m)
1	160429.2	406562.6
2	160547.0	406556.6
3	160407.9	406664.8
4	160570.7	406501.1
5	160169.8	406570.3
6	160286.0	406485.0
7	160366.0	406381.2
8	160403.9	406295.8
9	160337.0	406216.7
10	160192.7	406257.1
11	160105.6	406308.2
12	160015.9	406388.2
13	159250.0	405775.0
14	159250.0	405800.0
15	159250.0	405825.0
16	159250.0	405850.0
17	159250.0	405875.0
18	159250.0	405900.0
19	159250.0	405925.0
20	159250.0	405950.0
21	159250.0	405975.0
22	159250.0	406000.0
23	159250.0	406025.0
24	159250.0	406050.0
25	159250.0	406075.0
26	159250.0	406100.0
27	159250.0	406125.0
28	159250.0	406150.0
29	159250.0	406175.0
30	159250.0	406200.0
31	159250.0	406225.0
32	159250.0	406250.0
33	159250.0	406275.0
34	159250.0	406300.0
35	159250.0	406325.0
36	159250.0	406350.0
37	159250.0	406375.0
38	159250.0	406400.0
39	159250.0	406425.0
40	159250.0	406450.0
41	159250.0	406475.0
42	159250.0	406500.0
43	159250.0	406525.0
44	159250.0	406550.0
45	159250.0	406575.0
46	159250.0	406600.0
47	159250.0	406625.0
48	159250.0	406650.0
49	159250.0	406675.0
50	159250.0	406700.0
51	159250.0	406725.0

52	159250.0	406750.0
53	159250.0	406775.0
54	159250.0	406800.0
55	159250.0	406825.0
56	159250.0	406850.0
57	159250.0	406875.0
58	159250.0	406900.0
59	159250.0	406925.0
60	159250.0	406950.0
61	159250.0	406975.0
62	159275.0	405775.0
63	159275.0	405800.0
64	159275.0	405825.0
65	159275.0	405850.0
66	159275.0	405875.0
67	159275.0	405900.0
68	159275.0	405925.0
69	159275.0	405950.0
70	159275.0	405975.0
71	159275.0	406000.0
72	159275.0	406025.0
73	159275.0	406050.0
74	159275.0	406075.0
75	159275.0	406100.0
76	159275.0	406125.0
77	159275.0	406150.0
78	159275.0	406175.0
79	159275.0	406200.0
80	159275.0	406225.0
81	159275.0	406250.0
82	159275.0	406275.0
83	159275.0	406300.0
84	159275.0	406325.0
85	159275.0	406350.0
86	159275.0	406375.0
87	159275.0	406400.0
88	159275.0	406425.0
89	159275.0	406450.0
90	159275.0	406475.0
91	159275.0	406500.0
92	159275.0	406525.0
93	159275.0	406550.0
94	159275.0	406575.0
95	159275.0	406600.0
96	159275.0	406625.0
97	159275.0	406650.0
98	159275.0	406675.0
99	159275.0	406700.0
100	159275.0	406725.0
101	159275.0	406750.0
102	159275.0	406775.0
103	159275.0	406800.0
104	159275.0	406825.0

105	159275.0	406850.0
106	159275.0	406875.0
107	159275.0	406900.0
108	159275.0	406925.0
109	159275.0	406950.0
110	159275.0	406975.0
111	159300.0	405775.0
112	159300.0	405800.0
113	159300.0	405825.0
114	159300.0	405850.0
115	159300.0	405875.0
116	159300.0	405900.0
117	159300.0	405925.0
118	159300.0	405950.0
119	159300.0	405975.0
120	159300.0	406000.0
121	159300.0	406025.0
122	159300.0	406050.0
123	159300.0	406075.0
124	159300.0	406100.0
125	159300.0	406125.0
126	159300.0	406150.0
127	159300.0	406175.0
128	159300.0	406200.0
129	159300.0	406225.0
130	159300.0	406250.0
131	159300.0	406275.0
132	159300.0	406300.0
133	159300.0	406325.0
134	159300.0	406350.0
135	159300.0	406375.0
136	159300.0	406400.0
137	159300.0	406425.0
138	159300.0	406450.0
139	159300.0	406475.0
140	159300.0	406500.0
141	159300.0	406525.0
142	159300.0	406550.0
143	159300.0	406575.0
144	159300.0	406600.0
145	159300.0	406625.0
146	159300.0	406650.0
147	159300.0	406675.0
148	159300.0	406700.0
149	159300.0	406725.0
150	159300.0	406750.0
151	159300.0	406775.0
152	159300.0	406800.0
153	159300.0	406825.0
154	159300.0	406850.0
155	159300.0	406875.0
156	159300.0	406900.0
157	159300.0	406925.0

158	159300.0	406950.0
159	159300.0	406975.0
160	159325.0	405775.0
161	159325.0	405800.0
162	159325.0	405825.0
163	159325.0	405850.0
164	159325.0	405875.0
165	159325.0	405900.0
166	159325.0	405925.0
167	159325.0	405950.0
168	159325.0	405975.0
169	159325.0	406000.0
170	159325.0	406025.0
171	159325.0	406050.0
172	159325.0	406075.0
173	159325.0	406100.0
174	159325.0	406125.0
175	159325.0	406150.0
176	159325.0	406175.0
177	159325.0	406200.0
178	159325.0	406225.0
179	159325.0	406250.0
180	159325.0	406275.0
181	159325.0	406300.0
182	159325.0	406325.0
183	159325.0	406350.0
184	159325.0	406375.0
185	159325.0	406400.0
186	159325.0	406425.0
187	159325.0	406450.0
188	159325.0	406475.0
189	159325.0	406500.0
190	159325.0	406525.0
191	159325.0	406550.0
192	159325.0	406575.0
193	159325.0	406600.0
194	159325.0	406625.0
195	159325.0	406650.0
196	159325.0	406675.0
197	159325.0	406700.0
198	159325.0	406725.0
199	159325.0	406750.0
200	159325.0	406775.0
201	159325.0	406800.0
202	159325.0	406825.0
203	159325.0	406850.0
204	159325.0	406875.0
205	159325.0	406900.0
206	159325.0	406925.0
207	159325.0	406950.0
208	159325.0	406975.0
209	159350.0	405775.0
210	159350.0	405800.0

211	159350.0	405825.0
212	159350.0	405850.0
213	159350.0	405875.0
214	159350.0	405900.0
215	159350.0	405925.0
216	159350.0	405950.0
217	159350.0	405975.0
218	159350.0	406000.0
219	159350.0	406025.0
220	159350.0	406050.0
221	159350.0	406075.0
222	159350.0	406100.0
223	159350.0	406125.0
224	159350.0	406150.0
225	159350.0	406175.0
226	159350.0	406200.0
227	159350.0	406225.0
228	159350.0	406250.0
229	159350.0	406275.0
230	159350.0	406300.0
231	159350.0	406325.0
232	159350.0	406350.0
233	159350.0	406375.0
234	159350.0	406400.0
235	159350.0	406425.0
236	159350.0	406450.0
237	159350.0	406475.0
238	159350.0	406500.0
239	159350.0	406525.0
240	159350.0	406550.0
241	159350.0	406575.0
242	159350.0	406600.0
243	159350.0	406625.0
244	159350.0	406650.0
245	159350.0	406675.0
246	159350.0	406700.0
247	159350.0	406725.0
248	159350.0	406750.0
249	159350.0	406775.0
250	159350.0	406800.0
251	159350.0	406825.0
252	159350.0	406850.0
253	159350.0	406875.0
254	159350.0	406900.0
255	159350.0	406925.0
256	159350.0	406950.0
257	159350.0	406975.0
258	159375.0	405775.0
259	159375.0	405800.0
260	159375.0	405825.0
261	159375.0	405850.0
262	159375.0	405875.0
263	159375.0	405900.0

264	159375.0	405925.0
265	159375.0	405950.0
266	159375.0	405975.0
267	159375.0	406000.0
268	159375.0	406025.0
269	159375.0	406050.0
270	159375.0	406075.0
271	159375.0	406100.0
272	159375.0	406125.0
273	159375.0	406150.0
274	159375.0	406175.0
275	159375.0	406200.0
276	159375.0	406225.0
277	159375.0	406250.0
278	159375.0	406275.0
279	159375.0	406300.0
280	159375.0	406325.0
281	159375.0	406350.0
282	159375.0	406375.0
283	159375.0	406400.0
284	159375.0	406425.0
285	159375.0	406450.0
286	159375.0	406475.0
287	159375.0	406500.0
288	159375.0	406525.0
289	159375.0	406550.0
290	159375.0	406575.0
291	159375.0	406600.0
292	159375.0	406625.0
293	159375.0	406650.0
294	159375.0	406675.0
295	159375.0	406700.0
296	159375.0	406725.0
297	159375.0	406750.0
298	159375.0	406775.0
299	159375.0	406800.0
300	159375.0	406825.0
301	159375.0	406850.0
302	159375.0	406875.0
303	159375.0	406900.0
304	159375.0	406925.0
305	159375.0	406950.0
306	159375.0	406975.0
307	159400.0	405775.0
308	159400.0	405800.0
309	159400.0	405825.0
310	159400.0	405850.0
311	159400.0	405875.0
312	159400.0	405900.0
313	159400.0	405925.0
314	159400.0	405950.0
315	159400.0	405975.0
316	159400.0	406000.0

317	159400.0	406025.0
318	159400.0	406050.0
319	159400.0	406075.0
320	159400.0	406100.0
321	159400.0	406125.0
322	159400.0	406150.0
323	159400.0	406175.0
324	159400.0	406200.0
325	159400.0	406225.0
326	159400.0	406250.0
327	159400.0	406275.0
328	159400.0	406300.0
329	159400.0	406325.0
330	159400.0	406350.0
331	159400.0	406375.0
332	159400.0	406400.0
333	159400.0	406425.0
334	159400.0	406450.0
335	159400.0	406475.0
336	159400.0	406500.0
337	159400.0	406525.0
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1943	160225.0	406250.0
1944	160225.0	406275.0
1945	160225.0	406300.0
1946	160225.0	406325.0
1947	160225.0	406350.0
1948	160225.0	406375.0
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1973	160250.0	405775.0
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1984	160250.0	406050.0
1985	160250.0	406075.0
1986	160250.0	406100.0
1987	160250.0	406125.0
1988	160250.0	406150.0
1989	160250.0	406175.0
1990	160250.0	406200.0
1991	160250.0	406225.0
1992	160250.0	406250.0
1993	160250.0	406275.0
1994	160250.0	406300.0
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1996	160250.0	406350.0
1997	160250.0	406375.0
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4850	0.0	0.0
4851	0.0	0.0
4852	0.0	0.0
4853	0.0	0.0
4854	0.0	0.0
4855	0.0	0.0
4856	0.0	0.0
4857	0.0	0.0
4858	0.0	0.0
4859	0.0	0.0
4860	0.0	0.0
4861	0.0	0.0
4862	0.0	0.0
4863	0.0	0.0
4864	0.0	0.0
4865	0.0	0.0
4866	0.0	0.0
4867	0.0	0.0
4868	0.0	0.0
4869	0.0	0.0
4870	0.0	0.0
4871	0.0	0.0
4872	0.0	0.0
4873	0.0	0.0
4874	0.0	0.0

4875	0.0	0.0
4876	0.0	0.0
4877	0.0	0.0
4878	0.0	0.0
4879	0.0	0.0
4880	0.0	0.0
4881	0.0	0.0
4882	0.0	0.0
4883	0.0	0.0
4884	0.0	0.0
4885	0.0	0.0
4886	0.0	0.0
4887	0.0	0.0
4888	0.0	0.0
4889	0.0	0.0
4890	0.0	0.0
4891	0.0	0.0
4892	0.0	0.0
4893	0.0	0.0
4894	0.0	0.0
4895	0.0	0.0
4896	0.0	0.0
4897	0.0	0.0
4898	0.0	0.0
4899	0.0	0.0
4900	0.0	0.0
4901	0.0	0.0
4902	0.0	0.0
4903	0.0	0.0
4904	0.0	0.0
4905	0.0	0.0
4906	0.0	0.0
4907	0.0	0.0
4908	0.0	0.0
4909	0.0	0.0
4910	0.0	0.0
4911	0.0	0.0
4912	0.0	0.0
4913	0.0	0.0
4914	0.0	0.0
4915	0.0	0.0
4916	0.0	0.0
4917	0.0	0.0
4918	0.0	0.0
4919	0.0	0.0
4920	0.0	0.0
4921	0.0	0.0
4922	0.0	0.0
4923	0.0	0.0
4924	0.0	0.0
4925	0.0	0.0
4926	0.0	0.0
4927	0.0	0.0

4928	0.0	0.0
4929	0.0	0.0
4930	0.0	0.0
4931	0.0	0.0
4932	0.0	0.0
4933	0.0	0.0
4934	0.0	0.0
4935	0.0	0.0
4936	0.0	0.0
4937	0.0	0.0
4938	0.0	0.0
4939	0.0	0.0
4940	0.0	0.0
4941	0.0	0.0
4942	0.0	0.0
4943	0.0	0.0
4944	0.0	0.0
4945	0.0	0.0
4946	0.0	0.0
4947	0.0	0.0
4948	0.0	0.0
4949	0.0	0.0
4950	0.0	0.0
4951	0.0	0.0
4952	0.0	0.0
4953	0.0	0.0
4954	0.0	0.0
4955	0.0	0.0
4956	0.0	0.0
4957	0.0	0.0
4958	0.0	0.0
4959	0.0	0.0
4960	0.0	0.0
4961	0.0	0.0
4962	0.0	0.0
4963	0.0	0.0
4964	0.0	0.0
4965	0.0	0.0
4966	0.0	0.0
4967	0.0	0.0
4968	0.0	0.0
4969	0.0	0.0
4970	0.0	0.0
4971	0.0	0.0
4972	0.0	0.0
4973	0.0	0.0
4974	0.0	0.0
4975	0.0	0.0
4976	0.0	0.0
4977	0.0	0.0
4978	0.0	0.0
4979	0.0	0.0
4980	0.0	0.0

4981	0.0	0.0
4982	0.0	0.0
4983	0.0	0.0
4984	0.0	0.0
4985	0.0	0.0
4986	0.0	0.0
4987	0.0	0.0
4988	0.0	0.0
4989	0.0	0.0
4990	0.0	0.0
4991	0.0	0.0
4992	0.0	0.0
4993	0.0	0.0
4994	0.0	0.0
4995	0.0	0.0
4996	0.0	0.0
4997	0.0	0.0
4998	0.0	0.0
4999	0.0	0.0
5000	0.0	0.0

bronn°	bronnaam	wegtype	snelheid [km/u]	wegbreedte [m]	X begin [m]	Y begin [m]	X eind [m]
1	07_int	normaal	6	10.00	160220.4	406343.3	160308.4
2	07_int	normaal	6	10.00	160183.7	406411.5	160220.4
3	07_int	normaal	6	10.00	160115.2	406412.3	160183.7
4	07_int	normaal	6	10.00	160096.2	406480.9	160115.2
5	07_int	normaal	6	10.00	160073.9	406493.7	160096.2
6	08_Z	normaal	15	6.00	160031.8	406420.5	160073.1
7	08_Z	normaal	15	6.00	159998.0	406405.9	160031.8
8	08_Z	normaal	15	6.00	159998.0	406405.9	160013.4
9	08_Z	normaal	15	6.00	160013.4	406368.5	160035.0
10	08_Z	normaal	15	6.00	160035.0	406366.1	160196.9
11	08_Z	normaal	15	6.00	160196.9	406258.0	160452.1
12	08_Z	normaal	15	6.00	160452.1	406150.3	160490.2
13	08_Z	normaal	15	6.00	160398.2	405932.0	160490.2
14	08_Z	normaal	15	6.00	160150.7	405798.1	160398.2
15	09_O	normaal	15	6.00	160022.4	406413.9	160074.0
16	09_O	normaal	15	6.00	159994.1	406411.8	160022.4
17	09_O	normaal	15	6.00	159918.6	406459.5	159994.1
18	09_O	normaal	15	6.00	159869.2	406437.6	159918.6
19	09_O	normaal	15	6.00	159827.7	406351.5	159869.2
20	09_O	normaal	15	6.00	159827.7	406351.5	160358.2
21	10_W	normaal	15	6.00	160025.5	406418.3	160075.0
22	10_W	normaal	15	6.00	160010.3	406411.8	160025.5
23	10_W	normaal	15	6.00	159996.6	406401.0	160010.3
24	10_W	normaal	15	6.00	159996.6	406401.0	160004.6
25	10_W	normaal	15	6.00	159971.2	406340.8	160004.6
26	10_W	normaal	15	6.00	159676.6	406415.5	159971.2
27	10_W	normaal	15	6.00	159308.1	406556.5	159676.6
28	11_N	normaal	15	6.00	160075.7	406494.1	160183.6
29	11_N	normaal	15	6.00	160183.6	406584.1	160251.2
30	11_N	normaal	15	6.00	160251.2	406599.9	160312.1
31	11_N	normaal	15	6.00	160312.1	406630.5	160516.8
32	11_N	normaal	15	6.00	160516.8	406800.4	160550.9
33	14_N279	normaal	50	12.00	159314.5	406555.0	160526.2

Y eind [m]	weglengte [m]	weghoogte [m]	scherm- hoogte [m]	canyon breedte [m]	gebouwhoogte rechts [m]
406284.1	106.1	0.0	0.0	0.0	0.0
406343.3	77.4	0.0	0.0	0.0	0.0
406411.5	68.5	0.0	0.0	0.0	0.0
406412.3	71.2	0.0	0.0	0.0	0.0
406480.9	25.7	0.0	0.0	0.0	0.0
406495.3	85.4	0.0	0.0	0.0	0.0
406420.5	36.8	0.0	0.0	0.0	0.0
406368.5	40.4	0.0	0.0	0.0	0.0
406366.1	21.7	0.0	0.0	0.0	0.0
406258.0	194.7	0.0	0.0	0.0	0.0
406150.3	277.0	0.0	0.0	0.0	0.0
406122.8	47.0	0.0	0.0	0.0	0.0
406122.8	211.8	0.0	0.0	0.0	0.0
405932.0	281.5	0.0	0.0	0.0	0.0
406493.7	95.0	0.0	0.0	0.0	0.0
406413.9	28.4	0.0	0.0	0.0	0.0
406411.8	89.3	0.0	0.0	0.0	0.0
406459.5	54.1	0.0	0.0	0.0	0.0
406437.6	95.6	0.0	0.0	0.0	0.0
406107.6	583.9	0.0	0.0	0.0	0.0
406493.8	90.3	0.0	0.0	0.0	0.0
406418.3	16.5	0.0	0.0	0.0	0.0
406411.8	17.4	0.0	0.0	0.0	0.0
406373.1	29.0	0.0	0.0	0.0	0.0
406373.1	46.6	0.0	0.0	0.0	0.0
406340.8	303.9	0.0	0.0	0.0	0.0
406415.5	394.5	0.0	0.0	0.0	0.0
406584.1	140.5	0.0	0.0	0.0	0.0
406599.9	69.4	0.0	0.0	0.0	0.0
406630.5	68.1	0.0	0.0	0.0	0.0
406800.4	266.1	0.0	0.0	0.0	0.0
406952.7	156.1	0.0	0.0	0.0	0.0
406060.9	1308.6	0.0	0.0	0.0	0.0

gebouwhoogte links [m]	ventilatie- factor	bomen- tunnel- factor lengte (m)	totaal etmaal VI	LV etmaal totaal	MV etmaal totaal
0.0	0.000	1.00 nvt	415	0	0
0.0	0.000	1.00 nvt	415	0	0
0.0	0.000	1.00 nvt	415	0	0
0.0	0.000	1.00 nvt	415	0	0
0.0	0.000	1.00 nvt	415	0	0
0.0	0.000	1.00 nvt	41	0	0
0.0	0.000	1.00 nvt	41	0	0
0.0	0.000	1.00 nvt	41	0	0
0.0	0.000	1.00 nvt	41	0	0
0.0	0.000	1.00 nvt	41	0	0
0.0	0.000	1.00 nvt	41	0	0
0.0	0.000	1.00 nvt	41	0	0
0.0	0.000	1.00 nvt	41	0	0
0.0	0.000	1.00 nvt	41	0	0
0.0	0.000	1.00 nvt	41	0	0
0.0	0.000	1.00 nvt	165	0	0
0.0	0.000	1.00 nvt	165	0	0
0.0	0.000	1.00 nvt	165	0	0
0.0	0.000	1.00 nvt	165	0	0
0.0	0.000	1.00 nvt	165	0	0
0.0	0.000	1.00 nvt	165	0	0
0.0	0.000	1.00 nvt	165	0	0
0.0	0.000	1.00 nvt	165	0	0
0.0	0.000	1.00 nvt	165	0	0
0.0	0.000	1.00 nvt	165	0	0
0.0	0.000	1.00 nvt	165	0	0
0.0	0.000	1.00 nvt	165	0	0
0.0	0.000	1.00 nvt	165	0	0
0.0	0.000	1.00 nvt	45	0	0
0.0	0.000	1.00 nvt	45	0	0
0.0	0.000	1.00 nvt	45	0	0
0.0	0.000	1.00 nvt	45	0	0
0.0	0.000	1.00 nvt	45	0	0
0.0	0.000	1.00 nvt	7100	6049	534

ZV etmaal totaal	bussen etmaal totaal	stagnatie	milieuzone
415		0 0.000	nee
415		0 0.000	nee
415		0 0.000	nee
415		0 0.000	nee
415		0 0.000	nee
41		0 0.000	nee
41		0 0.000	nee
41		0 0.000	nee
41		0 0.000	nee
41		0 0.000	nee
41		0 0.000	nee
41		0 0.000	nee
41		0 0.000	nee
41		0 0.000	nee
165		0 0.000	nee
165		0 0.000	nee
165		0 0.000	nee
165		0 0.000	nee
165		0 0.000	nee
165		0 0.000	nee
165		0 0.000	nee
165		0 0.000	nee
165		0 0.000	nee
165		0 0.000	nee
165		0 0.000	nee
165		0 0.000	nee
165		0 0.000	nee
45		0 0.000	nee
45		0 0.000	nee
45		0 0.000	nee
45		0 0.000	nee
45		0 0.000	nee
420		97 0.000	nee

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